

MICROSCAN

PRODUCT PRICING CATALOG

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CONFIDENTIAL

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Rev. AG June 2012

MICROSCAN

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Field Sales Contacts

| Region | Sales Managers | Address | Phone | Email |
|---|-------------------|---|---|--|
| Director, Americas Sales | John Agapakis | 486 Amherst St. Nashua, NH 03063 | Tel: +603.821.4319 +508.314.4143 (M) | jagapakis@microscan.com |
| Western U.S.A. / Western Canada | Bob Taplett | 21416 NE 146th PL Woodinville, WA 98077 | Tel: +206.617.9603 (M) | btaplett@microscan.com |
| Central U.S.A. / Eastern Canada | Richard Bellemare | 4210 Gilbert Ave. Dallas, TX 75219 | Tel: +214.599.2886 | rbellemare@microscan.com |
| Midwestern U.S.A. | Bob Fines | 3028 Ashbury Drive Naperville, IL 60564 | Tel: +630.319.3247 (M) | bfines@microscan.com |
| Southeastern U.S.A. / Caribbean | Matt Smith | 740 Paint Horse Drive Canton, GA 30115 | Tel: +770.366.3385 (M) | msmith@microscan.com |
| Northeastern U.S.A. / Ontario, Canada | Ted Rudel | 486 Amherst St. Nashua, NH 03063 | Tel: +973.289.0870 (M) | trudel@microscan.com |
| Mexico / Latin & South America | John Agapakis | 486 Amherst St. Nashua, NH 03063 | Tel: +603.821.4319 +508.314.4143 (M) | jagapakis@microscan.com |
| Director, EMEA Sales / Southern Africa | René van Mourik | Lemelerberg 17 NL-2402 ZN Alphen aan den Rijn, The Netherlands | Tel: +31.172.423360 | rvanmourik@microscan.com |
| Italy, Spain, Portugal | Alex Doria | Via Casona, 110 30173 Mestre (Venezia) Italy | Tel: +39.345.0264156 (M) | adoria@microscan.com |
| Germany, Austria, Switzerland | Helmut Zierer | Vetriebsbuero Deutschland Amselstrasse 22 D-85356 Freising, Germany | Tel: +49.1608.9486.18 (M) | hzierer@microscan.com |
| France, UK, Ireland, Belgium, Luxembourg, The Netherlands, Nordic Countries | Michael de Kegel | Zonnestraat 11 B.9300 Aalst Belgium | Tel: +32.474.3110.56 (M) | mdekegel@microscan.com |
| Turkey, Eastern Europe, Baltic States, Russia, Middle East, Northern Africa | Osman Erturk | Yavuz Selim Caddesi Sisliste Sokak 15-5, 34087, Fatih/Istanbul Turkey | Tel: +90.530.600.8581 (M) | oerturk@microscan.com |
| Director, APAC Sales / Australia, New Zealand, Fiji | Ko Cheng Han | 31 Kaki Bukit Road 3 #06-04/05 TechLink, Singapore 417818 | Tel: +65.6846.1214 | kochenghan@microscan.com |
| China Country Manager / Beijing, Guangdong, Shandong | Richard Cheng | Beijing Shougang International Bldg. Rm. 1818, No.60 North Street, Xizhimen Haidian District, Beijing 100088 P.R.C. | Tel: +86.10.5993.5766 +86.186.0006.2619 (M) | rcheng@microscan.com |
| Singapore, Indonesia, Philippines, Vietnam, Thailand, Malaysia, Guam, Taiwan, SEA Countries | Goh Yee Heng | 31 Kaki Bukit Road 3 #06-04/05 TechLink, Singapore 417818 | Tel: +65.6846.1214 +65.9239.7032 (M) | gohyh@microscan.com |
| China/Hong Kong, Sichuan, Chongqing, Guangxi, Guizhou, Hainan, Yunnan | Charles Cheng | 22F, C Bldg., Fengzing Plaza, # 240 Tianhe Road, Tianhe District Guangzhou, 510620, P.R.C | Tel: +86.20.2887.3807 +86.186.8889.6626 (M) | ccheng@microscan.com |
| China/Shanghai, Suzhou, Nanjing, Anhui, Jiangsu, Zhejiang | Ryan Zhu | Unit 201, XinAn Plaza, Bldg. 13 No. 99 Tianzhou Road Shanghai, 200233, P.R.C. | Tel: +86.21.6113.3750 +86.186.2190.0703 (M) | rzh@microscan.com |
| China/Fujian, Hunan, Hubei, Jiangxi | James Zeng | Shenzhen Rep. Office Unit 1, 27th Floor, Tianli Center Commerce Plaza, Nanshan District, Shenzhen, 518054 P.R.C. | Tel: +86.755.8633.2368.803 +86.186.2037.6543 (M) | izeng@microscan.com |
| Korea | Moon Soo Kim | 8F, SH Energy Bldg., 16.6, Sunae-dong, Bundang-gu, Seongnam City, Kyeonggi-Do, Korea, 463-825 | Tel: +82.31.786.0835 +82.10.3784.6437 (M) | mkim@microscan.com |
| Japan | Koji Seto | Tsukasamachi Bldg, 2-6, Kandu Tsukasa-machi Chiyoda-ku, Tokyo 101-0048, Japan | Tel: +81.3.3255.8163 +81.80.3476.2463 (M) | kseto@microscan.com |
| India, Pakistan, Nepal, Sri Lanka, Bangladesh, Bhutan | Vinay Bhasin | BPTP Park Centra, 201-B, 2nd Floor Sector-30, Gurgaon, Haryana 122 002 India | Tel: +91.981.1412271 (M) | vbhasin@microscan.com |

Customer Service Contacts

| Region | Inside Sales Managers | Address | Phone | Email |
|--|-----------------------|--|--|--|
| Americas | Steve Kinney | Microscan 700 SW 39th Street, Renton, WA 98057 | Tel: +1.425.203.4929 Fax: +1.425.226.8250 | AMERICAS_Orders@microscan.com |
| Asia Pacific | Vincent Chee | 31 Kaki Bukit Road 3 #06.04/05 TechLink, Singapore 417818 | Tel: +65.6846.1214 Fax: +65.6846.4641 | ASIA_Orders@microscan.com |
| China | Ray Wang | Unit 201, XinAn Plaza, Bldg. 13, No.99 Tianzhou Road, Shanghai, 200233, P.R.C. | Tel: +86.21.6113.3752 Fax: +86.21.6113.3683 | CHINA_orders@microscan.com |
| Europe, Russia, Middle East, Africa | Rudy Pijper | Lemelerberg 17 NL-2402 ZN Alphen aan den Rijn, The Netherlands | Tel: +31.172.4233.72 Fax: +31.172.4233.66 | EMEA_Orders@microscan.com |
| Global Customer Service | Troy Shaw | Microscan 700 SW 39th Street Renton, WA 98057 | Tel: +31.172.4233.72 Fax: +31.172.4233.66 | Microscan_Orders@microscan.com |

Technical Support and Service Contacts

| Support/Service | Contact | Address | Phone | Email |
|---|--|--|---|--|
| Distributor Business Development | Matt Scrichfield, <i>Global Channel Manager</i> | Microscan 700 SW 39th Street Renton, WA 98057 | Tel: +425.203.4955 eFax: +1.425.988.7093 | partners@microscan.com |
| Service Contracts, Component Orders (piece parts, returns, obtain RMA #) | Contact your regional Customer Service representative. | | | |
| United States/Canada Help Desk | Auto ID/General | | Tel: +1.425.203.4841 / +1.800.251.7711 | helpdesk@microscan.com |
| | Lighting | | | nerlitesupport@microscan.com |
| | Vision | | | visionsupport@microscan.com |
| Mexico/Latin America Help Desk | General | | Tel: +1.281.879.9505 | support@all-us.com |
| Asia Pacific Help Desk | General | | Tel: +65.6846.1214 | apac_support@microscan.com |
| Europe, Russia, Middle East, Africa Help Desk | General | | Tel: +31.172.4233.63 | emea_support@microscan.com |

Note: Only products which are currently active (recommended for new applications) are shown in this product pricing catalog. Information regarding legacy and obsolete products is available by calling the sales/support contacts listed at the top of this page. Reference the end of the catalog for legacy product and service pricing.

****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet. Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount. Refer to your Partner Agreement for the actual discount percentage by Product Type.

MICROSCAN

MICROSCAN SYSTEMS, INC. TERMS AND CONDITIONS OF SALE

For the purposes of these TERMS AND CONDITIONS OF SALE ("Terms and Conditions"), "contract" means the agreement between Microscan Systems, Inc. ("Supplier") and Buyer arising as a result of Buyer's submission of an order for Supplier's products. Individually, Supplier and Buyer are each a party; collectively, they are parties. Such contract shall be deemed to incorporate and be governed by these Terms and Conditions. No term or condition of Buyer's order additional to or different from these Terms and Conditions shall become part of the contract unless explicitly agreed to in writing by Supplier. These Terms and Conditions may be revised by Supplier from time to time, in Supplier's sole discretion. Supplier will notify Buyer of revisions to these Terms and Conditions forty-five (45) days prior to the revised Terms and Conditions taking effect. Supplier's failure to object in writing to any provision contained in any communication from Buyer shall be construed as acceptance of any such provision and shall not be construed as a waiver of these Terms and Conditions.

1. Quotations and Orders: Prices, specifications and dates for delivery referenced in Supplier's quotations are for information purposes only and shall not be binding on Supplier until all technical requirements have been agreed and Supplier has accepted Buyer's order. All orders must be bona fide commitments showing definite prices and quantities and mutually agreed shipping dates.

2. Taxes: Prices do not include sales or excise taxes, which shall be paid by Buyer unless Buyer provides Supplier with any necessary tax exemption certificate.

3. Shipment and Delivery: All products will be shipped EXW (Ex Works) Supplier's premises. Delays of convenience, within fourteen (14) days of the acknowledged shipping dates, will be invoiced at 50% of order value on originally scheduled ship date. Delays for convenience will not be accepted beyond sixty (60) days. Orders containing custom "FIS" products cannot be delayed or canceled after receipt of Sales Order Acknowledgement. In the absence of specific instructions, Supplier will select the carrier and ship "collect". Title and risk of loss or damage to any product shall pass from Supplier to Buyer upon the product being packed ready for delivery to carrier. Any claims for loss, damage or misdelivery thereafter shall be filed with the carrier. All products shall be deemed finally inspected and accepted within ten (10) days after delivery unless notice of rejection is given by Buyer in writing to Supplier within such period. Acceptance shall constitute acknowledgement of full performance by Supplier of all obligations under the contract except as stated in Section 9 (Limitation of Warranties).

4. Terms of Payment: Each shipment shall be a separate transaction and Buyer will be invoiced on date of dispatch. Unless otherwise stated on Supplier's invoice, terms of payment shall be net thirty (30) days from date of invoice, unless Supplier requires, in its sole discretion, payment in advance. If Buyer fails to make any payment due hereunder when due, Supplier may recover, in addition to the payment, interest thereon at the rate of 1-1/2% per month and reasonable attorney's fees and costs.

5. Security Interest: Buyer hereby grants to Supplier a purchase money security interest in all Supplier products sold to Buyer as security for the punctual performance by Buyer of all of its obligations hereunder. Supplier may, at its discretion, file the Buyer's order and these terms and conditions as a financing statement to evidence and perfect said security interest.

6. Force Majeure: Supplier shall not be liable for any delay in delivery or for non-delivery, in whole or in part, caused by the occurrence of any event beyond the control of Supplier. If any such event occurs, Supplier may allocate production and deliveries among Supplier's customers.

7. Equipment: Supplier may modify specifications provided the modifications do not adversely affect the performance of the equipment to be supplied under the contract ("the equipment"). In addition, Supplier may furnish suitable substitutes for materials unobtainable because of priorities or regulations established by government authority, or non-availability of materials from suppliers.

8. Software and Proprietary Information: Supplier shall at all times have and retain title and full ownership of all software, firmware programming routines, and documentation thereof supplied by Supplier for use with the equipment, and of all copies thereof made by Buyer (collectively "software"). Supplier grants Buyer a non-exclusive and non-transferable license to use such software solely for use with the equipment. Buyer shall take all reasonable steps to protect Supplier's proprietary interest in the software, and any other proprietary information of Supplier, and shall not transfer or otherwise provide the software to any third party.

9. Limitation of Warranties:

A. Supplier warrants that all equipment shall be free from defects in material and workmanship under normal use for a period of one year from date of shipment to Buyer save that Supplier does not warrant that operation of the software will be completely uninterrupted or error free or that all program errors will be corrected. Buyer shall be responsible for determining that the equipment is suitable for Buyer's use and that such use complies with any applicable local, state or federal law. Provided that Buyer notifies Supplier in writing of any claimed defect in the equipment immediately upon discovery and any such equipment is returned to the original shipping point, transportation charges prepaid, within one (1) year from date of shipment to Buyer and upon examination Supplier determines to its satisfaction that such equipment is defective in material or workmanship, i.e. contains a defect arising out of the manufacture of the equipment and not a defect caused by other circumstances, including, but not limited to accident, misuse, unforeseeable use, neglect, alteration, improper installation, improper adjustment, improper repair, or improper testing, Supplier shall at its option repair or replace the equipment, shipment to Buyer prepaid. Supplier shall have reasonable time to make such repair or to replace such equipment. Any repair or replacement of equipment shall not extend the period of warranty. This warranty is limited to a period of one (1) year, without regard to whether any claimed defects were discoverable or latent on the date of shipment.

B. If Buyer shall fail to pay when due any portion of the purchase price or any other payment required from Buyer to Supplier under this contract or otherwise, all warranties and remedies granted under this Section 9 may, at Supplier's option, be terminated.

C. THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER REPRESENTATIONS, WARRANTIES AND COVENANTS, EXPRESS OR IMPLIED, WITH RESPECT TO THE EQUIPMENT AND ANY DEFECTS THEREIN OF ANY NATURE WHATSOEVER, INCLUDING WITHOUT LIMITATION WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SUPPLIER SHALL NOT BE LIABLE FOR, AND BUYER ASSUMES ALL RISK OF, ANY ADVICE OR FAILURE TO PROVIDE ADVICE BY SUPPLIER TO BUYER REGARDING THE EQUIPMENT OR BUYER'S USE OF THE SAME. UNDER NO CIRCUMSTANCES SHALL SUPPLIER BE LIABLE TO BUYER UNDER ANY TORT, NEGLIGENCE, STRICT LIABILITY, OR PRODUCT LIABILITY CLAIM AND BUYER AGREES TO WAIVE SUCH CLAIMS. SUPPLIER'S SOLE AND EXCLUSIVE LIABILITY, AND BUYER'S SOLE AND EXCLUSIVE REMEDY, FOR ANY NONCONFORMITY OR DEFECT IN THE PRODUCTS OR ANYTHING DONE IN CONNECTION WITH THIS CONTRACT, IN TORT (INCLUDING NEGLIGENCE), CONTRACT, OR OTHERWISE, SHALL BE AS SET FORTH IN SUBSECTION 9A HEREOF AS LIMITED BY SUBSECTION 9B HEREOF. THIS EXCLUSIVE REMEDY SHALL NOT HAVE FAILED OF ITS ESSENTIAL PURPOSE (AS THAT TERM IS USED IN THE UNIFORM COMMERCIAL CODE) PROVIDED THAT THE SUPPLIER REMAINS WILLING TO REPAIR OR REPLACE DEFECTIVE EQUIPMENT (AS DEFINED IN SUBSECTION 9A) WITHIN A COMMERCIALLY REASONABLE TIME AFTER RECEIVING SUCH EQUIPMENT. BUYER SPECIFICALLY ACKNOWLEDGES THAT SUPPLIER'S PRICE FOR THE EQUIPMENT IS BASED UPON THE LIMITATIONS OF SUPPLIER'S LIABILITY AS SET FORTH IN THIS CONTRACT.

10. Patents: Supplier shall defend any suit or proceeding brought against Buyer to the extent that it is based on a claim that any equipment manufactured by Supplier infringes in construction or design a United States patent, and shall indemnify Buyer against all costs, damages and expenses finally awarded against Buyer provided that Buyer notifies Supplier promptly in writing of any such claim and gives Supplier full and complete authority, information and assistance for the defense of such claim and provided further that Supplier shall have sole control of the defense and of the negotiations for settlement, if any, of such claim. If any such equipment is held in construction or design directly to infringe any United States patent and the use of said equipment is enjoined, or in case any equipment may, in the opinion of Supplier, be held to infringe, Supplier may, at its expense and option, either (a) procure for Buyer the right to continue using said equipment, (b) replace said equipment with a suitable noninfringing product, (c) suitably modify said equipment, or (d) refund the purchase price of said equipment less depreciation at 20% per year, and accept its return. Supplier shall not be liable for any cost or expense incurred without Supplier's written authorization. Supplier shall not be obligated to defend or be liable for costs and damages if the infringement arises out of compliance with Buyer's specification or from a combination with or an addition to equipment not manufactured or developed by Supplier or a modification of the equipment after delivery or the use of equipment beyond that established by Supplier or approved in writing by Supplier. THE FOREGOING STATES THE ENTIRE LIABILITY OF SUPPLIER, AND THE EXCLUSIVE REMEDY OF BUYER, WITH RESPECT TO ANY ALLEGED PATENT INFRINGEMENT BY THE SAID EQUIPMENT.

11. Limitation of Liability and Buyer Indemnity: IN NO EVENT, REGARDLESS OF THE FORM OF ACTION, SHALL SUPPLIER BE LIABLE FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL LOSSES OR DAMAGES ARISING OUT OF THE SALE OF ITS PRODUCTS TO BUYER OR ARISING OUT OF ANYTHING DONE IN CONNECTION WITH THE CONTRACT, INCLUDING, BUT NOT LIMITED TO, LOSSES OR DAMAGES ARISING OUT OF CLAIMS FOR LOSS OF USE, BUSINESS, GOODWILL, OR PROFITS, AND CLAIMS ARISING OUT OF THIRD-PARTY ACTIONS, REGARDLESS OF WHETHER SUCH THIRD-PARTY ACTIONS, OR ANY OTHER CLAIMS, LOSSES, OR DAMAGES, WERE REASONABLY FORESEEABLE TO BUYER OR SUPPLIER. BUYER'S EXCLUSIVE REMEDY ARISING OUT OF ITS PURCHASE AND USE OF SUPPLIER'S PRODUCTS, OR ARISING OUT OF ANYTHING DONE IN CONNECTION WITH THE CONTRACT, SHALL BE FOR DAMAGES AND NO CLAIM OR CLAIMS OF ANY KIND, WHETHER BASED UPON CONTRACT, WARRANTY, TORT (INCLUDING, BUT NOT LIMITED TO, NEGLIGENCE, WARRANTY AND STRICT LIABILITY), STATUTORY OR REGULATORY PROVISIONS, INDEMNITY, CONTRIBUTION, OR OTHERWISE, SHALL BE GREATER IN AMOUNT IN AGGREGATE THAN THE PURCHASE PRICE OF THE PRODUCTS IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

Buyer shall indemnify and hold harmless Supplier, its officers, agents, employees, subsidiaries, parents, affiliates and insurers from and against any and all liabilities, damages, losses, claims, lawsuits, including costs and expenses in connection therewith, for death or injury to any persons or loss of any property whatsoever, caused in any manner by Buyer's possession, use or operation of equipment.

12. Non-Waiver: Remedies: No waiver of any breach of these Terms and Conditions shall constitute a waiver of any prior or subsequent breach of any similar or dissimilar provision or a modification of the contract. All Supplier rights and remedies, whether evidenced hereby or by any other contract or document, shall be cumulative and nonexclusive and may be exercised singularly or concurrently.

13. Applicable Law; Dispute resolution; Severability: The validity, performance and construction of the contract shall be governed by the laws of the State of Washington, without regard to conflict of laws provisions. Any claim, dispute or other matter in question arising out of or relating to this provision, shall be subject to mediation as a condition precedent to binding dispute resolution. Any mediation under this Agreement shall be administered by the American Arbitration Association in accordance with its mediation procedures then in effect. The parties shall equally share the mediator's fee and any filing fees. If the parties do not resolve their dispute through mediation, the dispute shall be resolved in mandatory arbitration pursuant to an arbitration administered by the American Arbitration Association in accordance with its arbitration rules then in effect. The arbitrator(s) award shall be final and judgment may be entered upon it in accordance with applicable in any court having jurisdiction thereof. Any mediation or arbitration shall be held in Seattle, WA. If supplier is the substantially prevailing party, supplier will be entitled to and awarded, in addition to any other relief, its reasonable costs incurred, including attorneys' fees. Notwithstanding any attempts to resolve differences, any action brought by Buyer against Supplier arising out of this contract or Buyer's purchase and use of the equipment must be commenced within one year after such action accrues and in no event later than two years after date of shipment of such equipment. If any provision of these Terms and Conditions is held to be unenforceable, such holding shall not affect the enforceability of any other provision.

14. Government Contracts: If the products to be furnished under the contract are to be used in the performance of a United States Government contract or subcontract, the Government contract number and a statement to that effect shall appear on Buyer's purchase order. If Buyer's purchase order includes all of said information and if said order is accepted in writing by Supplier, then those clauses of the applicable Government procurement regulations which are mandatorily required by Federal statute or regulation to be included in this contract shall be incorporated herein by reference. In all other events, said clauses shall not be incorporated herein by reference.

15. Export: Regardless of any disclosure made by Buyer to Supplier of the ultimate destination of Supplier product(s), Buyer shall not export either directly or indirectly any Supplier product, or any system incorporating said product(s) either in contravention of statute or regulation or without first obtaining all required licenses and permits from the United States Department of Commerce and any other relevant agencies or departments of the United States government.

16. Assignment: The contract shall be binding upon and inure to the benefit of the parties and their respective legal representatives, successors and permitted assigns. The contract is personal to Buyer, and Buyer may not assign any of its rights or delegate any of its obligations hereunder, in whole or in part, without the prior written consent of Supplier, which Supplier may withhold for any reason or no reason.

17. Entire Agreement; Modifications: This contract constitutes the entire agreement between the parties as relates to the sale of the equipment and no addition to or modification of any provision of said agreement, together with any agreement to which these Terms and Conditions are an exhibit or schedule, and shall be binding upon Supplier unless agreed to in writing by Supplier.

18. Notices: All notices given under the contract shall be in writing, mailed by first class mail, certified or registered, or delivered by hand to the address of the other party set forth in the quotation or to such other address as such party may designate from time to time by such notice, and shall take effect when received.

Prices and Specifications Subject to Change

Tel: 425.226.5700
Fax: 425.226.8250

€100 Minimum Order
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Product Return Process

The following describes the process for returning products. This is broken down into two main processes:

1. **RMA (Return Material Authorization) process for NEW PRODUCT**
2. **RMA (Return Material Authorization) process for IN SERVICE PRODUCT**

RMA (Return material Authorization) process for NEW PRODUCT

This process is used to return a new product because it failed to work on initial startup (damaged on arrival) or the end customer wants to return the product to stock.

- **Damaged on arrival** = Out of box failures, determined at time of initial power up and within 30 days of shipment from Microscan.
 1. Contact your inside sales representative with the FIS part number, serial number, original sales order and/or purchase order and description of failure.
 2. RMA# issued only by Inside Sales Rep. This number MUST appear on the outside of the shipping container and on all related paperwork. Product must be returned in it's original factory packaging. If defective scanner is covered under our standard warranty terms, customers ORIGINAL SALES ORDER will be credited.
 3. If required, a REPLACEMENT sales order can be entered immediately for ASAP shipment. NOTE - Replacement scanner is processed as a NEW order and NEW INVOICE is generated at time of shipment.
- **Returns to stock** = Must be requested within 30 days of original shipment date from Microscan.
 1. Contact your inside sales representative with FIS or accessory part number, serial number (if applicable), original sales order and/or purchase order and reason for return. Upon approval all returns are subject to a standard 20% restocking fee.
 2. RMA# issued by Inside Sales Rep. This number MUST appear on the outside of the shipping container and on all related paperwork. Product must be returned in it's original factory packaging.

RMA (return material authorization) process for IN SERVICE PRODUCT

This process is used to return a product that needs to be repaired.

- **IN WARRANTY**
 1. Contact Customer Service (425-226-5700) with the part number, serial number, description of failure, and request a return material authorization form (RMA).
 2. The RMA# issued by a Customer Service Representative MUST appear on the outside of the shipping container and on all related paperwork.
- **OUT OF WARRANTY**
 1. Contact Customer Service as per "In Warranty" (above) and request a return material authorization form. Upon completion of this document, return it along with your confirming PURCHASE ORDER and an RMA# will then be issued authorizing the return of the product.
 2. The RMA# issued by a Customer Service Representative MUST appear on the outside of the shipping container and on all related paperwork.

Auto ID Barcode Readers

MS-1 Series Scan Engines

Read Ranges *

| Narrow Bar | Laser High Density |
|------------------|------------------------------|
| 5 mil (.127 mm) | 0.6" to 2.1" (15 to 53 mm) |
| 10 mil (.254 mm) | 0.6" to 4.1" (15 to 104 mm) |
| 15 mil (.381 mm) | 0.6" to 5.1" (15 to 130 mm) |
| Narrow Bar | Laser Low Density |
| 5 mil (.127 mm) | 1.8" to 3.6" (46 to 91 mm) |
| 10 mil (.254 mm) | 1.8" to 7.0" (46 to 178 mm) |
| 20 mil (.508 mm) | 1.8" to 12.6" (46 to 320 mm) |



*** NOTE: MS1 16 Bit Scan Engines are available in our Legacy Section of this Price Book.

Important Pricing Discount Note** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

MS-1 (32 bit) Series Scan Engine

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-0001-8003G | CCD Scan Engines, Low Density, 32 bit, 8-pack | €990 | P |
| FIS-0001-8004G | CCD Scan Engines, High Density, 32 bit, 8-pack | €990 | P |

Accessories

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000097-02 | MS-1 Demonstration Kit (Note: Kit contains 1 HD MS-1 and 1 LD MS-1)** | €226 | ** |
| 98-000051-01 | IC-3USB, USB Conversion Kit | €75 | A |

** This demo kit contains readers and is discounted 25%.

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|-------------------------------------|------------|------|
| 99-000017-01 | Photo Sensor, Visible NPN, DARK ON | €193 | A |
| 99-000017-02 | Photo Sensor, Visible NPN, LIGHT ON | €193 | A |

Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software | €30 | A |

MS-2 Series CCD Readers

Read Ranges

| Narrow Bar | High Density |
|------------------|------------------------------|
| 5 mil (.127 mm) | 0.4" to 1.9" (10 to 48 mm) |
| 10 mil (.254 mm) | 0.4" to 3.9" (10 to 99 mm) |
| 15 mil (.381 mm) | 0.4" to 4.9" (10 to 124 mm) |
| Narrow Bar | Low Density |
| 5 mil (.127 mm) | 1.6" to 3.4" (36 to 84 mm) |
| 10 mil (.254 mm) | 1.6" to 6.8" (36 to 188 mm) |
| 20 mil (.508 mm) | 1.6" to 12.4" (36 to 325 mm) |



*** NOTE: MS2 16 Bit Scan Engines are available in our Legacy Section of this Price Book.

MS-2 (32 bit)

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0002-0005G | MS-2, CCD, Low Density, 32 bit, RS232 Serial | €405 | P |
| FIS-0002-0006G | MS-2, CCD, Low Density, 32 bit, USB | €405 | P |
| FIS-0002-0007G | MS-2, CCD, High Density, 32 bit, RS232 Serial | €405 | P |
| FIS-0002-0008G | MS-2, CCD, High Density, 32 bit, USB | €405 | P |

Accessories

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0210-0001G | MS-Connect 210*, Connectivity Box with Display | € 650 | A |
| FIS-0210-0002G | MS-Connect 210*, Connectivity Box | € 420 | A |
| FIS-0210-0003G | MS-Connect 210*, Connectivity Box with Display and Ethernet | € 725 | A |
| FIS-0210-0004G | MS-Connect 210*, Connectivity Box with Ethernet | € 650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 and MS-890 | € 52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | € 52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | € 52 | A |
| 61-000127-02 | Cable, MS-2 to MS-Connect 210, 6 ft | € 110 | A |
| FIS-0001-0030G | IB-3PC Keyboard Wedge/Interface Box | € 110 | A |
| 98-000051-01 | IC-3USB, USB Conversion Kit | € 83 | A |
| FIS-0001-0035G | IC-332, Connects MS-2 to IB-131 | € 165 | A |
| 99-000018-01 | IB-131, Interface Box | € 165 | A |
| 98-000039-02 | Kit, IB-152, DB25 Plug Terminal Block, DB25 Gender Changer | € 138 | A |
| 61-300026-03 | Cable, Communication, DB-25 Plug to DB-9 Socket, 6 ft | € 33 | A |
| 61-000010-02 | Cable, Communication, DB-9 Socket to DB-9 Socket, 6 ft | € 33 | A |
| 61-000011-02 | Cable, MS-820 to IB-131 (also use for MS-2, 3, 4, 9, 710 and MINI Extension) | € 33 | A |
| 61-100029-03 | Cable, IB-131 Daisy Chain, 1 ft | € 33 | A |
| 20-500013-01 | DeviceNet Protocol Box ¹ | € 655 | A |

* For MS-Connect 210 accessory discount applies

MS-2 Series Accessories

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 97-000002-01 | Power Supply, 90-264 VAC,+5VDC, USA /Euro Plug (use with IB-3PC) | € 83 | A |
| 97-000002-02 | Power Supply (90-264 VAC,5 VDC | € 83 | A |
| 97-100004-15 | Power Supply, 90-264 VAC,+24VDC USA /Euro Plug (only use with IC-332) | € 138 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000048-01 | Mounting Arm/Adapter Kit, 4 inch, MS-2, MS-3 | € 77 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, MS-2, MS-3 | € 33 | A |
| 98-000053-01 | Extension Kit, 4 inch, MS-2, MS-3 | € 39 | A |
| 98-000053-02 | Mounting Arm Extension Kit, 3 inch, MS-2, MS-3 | € 39 | A |
| 98-000060-01 | Kit, Bracket, Side Mount, MS-2, MS-3 | € 22 | A |
| 98-000059-01 | Kit, Bracket, Angle Mount, MS-2, MS-3 | € 22 | A |
| 98-000057-01 | Kit, Bracket, Through Hole Mount, MS-2, MS-3 | € 22 | A |
| 98-000058-02 | Kit, Extended Right Angle Mirror, MS-2, MS-3 | € 55 | A |
| 98-000061-03 | MS-2, MS-3 to MS-520/MS-525, Bracket Conversion Kit | € 22 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw term and field wireable for custom wiring into IB-131) | € 33 | A |
| 20-610020-01 | Power Connector, 3-pin Socket (screw term and field wireable for custom wiring into IB-131) | € 33 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON (for use with IB-131) | € 193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON (for use with IB-131) | € 193 | A |

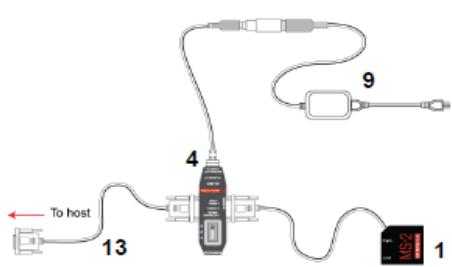
Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | € 30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | € 30 | A |

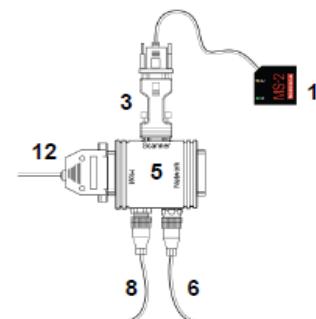
* 1 free per order.

Configurations

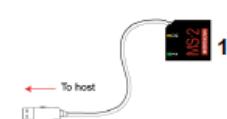
Standalone (5V)



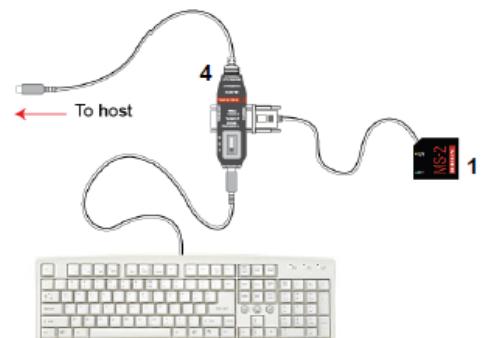
Standalone (10-28V)



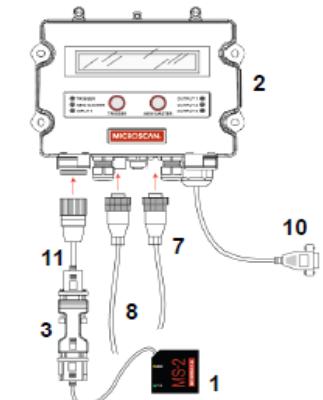
USB (5V)



Keyboard Wedge (5V)



Standalone with MS-Connect 210 (10-28V)



System Matrix

| Product | Reference No. | Description | List Price |
|---------|-------------------------|---|------------|
| 1 | FIS-0001-800XG (8-pack) | MS-2 CCD Reader | €990 |
| 2 | FIS-0210-00XG | MS-Connect 210 | Varies |
| 3 | FIS-0001-0035G | IC-332 Voltage Converter (to 10-28VDC) | €165 |
| 4 | FIS-0001-0030G | IP-3PC Interface | €110 |
| 5 | 99-000018-01 | IB-131 Interface Box | €165 |
| 6,7 | 99-000017-XX | Object Detector, Light or Dark ON | €193 |
| 8 | 97-100004-15 | Power Supply (90-264 VAC, 24VDC, USA/Euro Plug) | €138 |
| 9 | 97-00002-02 | Power Supply (90-264 VAC, 5 VDC) | €83 |
| 10 | 61-000105-01 | Host Cable (MS-Connect 210 to Host) | €33 |
| 11 | 61-000127-02 | Reader Cable (Reader to MS-Connect 210, 6') | €33 |
| 12 | 61-300026-03 | Communication Cable (IB-131 to Host, 6') | €33 |
| 13 | 61-000010-02 | Communication Cable (IP-3PC to Host, 6') | €33 |

MS-3 Series Scanners

Read Ranges *

| Narrow Bar | Laser High Density* |
|---------------------------|------------------------------|
| 3.3 mil (.084 mm) | 2.3" to 2.6" (58 to 66 mm) |
| 5 mil (.127 mm) | 2.0" to 3.1" (51 to 79 mm) |
| 7.5 mil (.191 mm) | 1.7" to 3.7" (43 to 94 mm) |
| 10 mil (.254 mm) | 1.5" to 4.0" (38 to 102 mm) |
| Narrow Bar | |
| Laser Low Density* | |
| 7.5 mil (.191 mm) | 3.0" to 6.0" (76 to 152 mm) |
| 10 mil (.254 mm) | 2.0" to 7.0" (51 to 178 mm) |
| 15 mil (.381 mm) | 2.0" to 8.0" (51 to 203 mm) |
| 20 mil (.508 mm) | 2.0" to 10.0" (51 to 254 mm) |

*Call for custom focus. For right-angle version, subtract ~0.6" (15mm) from Read Range.



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Scanners MS-3 Standard

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0003-0001G | Laser, Single Line, Low Density | €777 | P |
| FIS-0003-0002G | Laser, Single Line, High Density | €777 | P |
| FIS-0003-0003G | Laser, Raster, Low Density | €830 | P |
| FIS-0003-0004G | Laser, Raster, High Density | €830 | P |
| FIS-0003-0005G | Laser, Single Line, Low Density, Right Angle | €882 | P |
| FIS-0003-0006G | Laser, Single Line, High Density, Right Angle | €882 | P |
| FIS-0003-0007G | Laser, Raster, Low Density, Right Angle | €935 | P |
| FIS-0003-0008G | Laser, Raster, High Density, Right Angle | €935 | P |
| FIS-0003-0009G | Laser, Single Line, Low Density, 6" Cable | €777 | P |
| FIS-0003-0010G | Laser, Single Line, High Density, 6" Cable | €777 | P |
| FIS-0003-0011G | Laser, Raster, Low Density, 6" Cable | €830 | P |
| FIS-0003-0012G | Laser, Raster, High Density, 6" Cable | €830 | P |
| FIS-0003-0013G | Laser, Single Line, Low Density, Right Angle, 6" Cable | €882 | P |
| FIS-0003-0014G | Laser, Single Line, High Density, Right Angle, 6" Cable | €882 | P |
| FIS-0003-0015G | Laser, Raster, Low Density, Right Angle, 6" Cable | €935 | P |
| FIS-0003-0016G | Laser, Raster, High Density, Right Angle, 6" Cable | €935 | P |
| FIS-0003-0019G | Laser, Raster, Low Density, PDF | €935 | P |
| FIS-0003-0020G | Laser, Raster, High Density, PDF | €935 | P |
| FIS-0003-0028G | Laser, Raster, High Density, 6" Cable, PDF | €935 | P |
| FIS-0003-0033G | Laser, Single Line, Low Density, VS-310 Replacement | €777 | P |
| FIS-0003-0036G | Laser, Raster, High Density, VS-310 Replacement | €830 | P |
| FIS-0003-0037G | Laser, Single Line, Low Density, MS-610 Replacement | €935 | P |
| FIS-0003-0038G | Laser, Raster, Low Density, MS-610 Replacement | €987 | P |

Note: Please reference the Legacy section of this catalog for additional PDF versions.

MS-3 Series Scanner Accessories

Accessories

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-0210-0001G | MS-Connect 210**, Connectivity Box with Display | € 650 | A |
| FIS-0210-0002G | MS-Connect 210**, Connectivity Box | € 420 | A |
| FIS-0210-0003G | MS-Connect 210**, Connectivity Box with Display and Ethernet | € 725 | A |
| FIS-0210-0004G | MS-Connect 210**, Connectivity Box with Ethernet | € 650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 | € 52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | € 52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | € 52 | A |
| 61-000127-02 | Cable, IC-332 to MS-Connect 210, 6 ft | € 110 | A |
| FIS-0001-0030G | IB-3PC Keyboard Wedge/Interface Box | € 110 | A |
| 98-000051-01 | IC-3USB, USB Conversion Kit | € 83 | A |
| FIS-0001-0035G | IC-332, Connects MS-3 to IB-131 or MS-connect 210 | € 165 | A |
| 99-000018-01 | IB-131, Interface Box | € 165 | A |
| 98-000039-02 | Kit, IB-152, DB25 Plug Terminal Block, DB25 Gender Changer | € 138 | A |
| 61-300026-03 | Cable, Communication, DB-25 Plug to DB-9 Socket, 6 ft | € 33 | A |
| 61-000010-02 | Cable, Communication, DB-9 Socket to DB-9 Socket, 6 ft | € 33 | A |
| 61-000011-02 | Cable, MS-820 to IB-131 (also use for MS-3, 4, 9, 710 and MINI Extension) | € 33 | A |
| 61-100029-03 | Cable, IB-131 Daisy Chain, 1 ft | € 33 | A |
| 20-500013-01 | DeviceNet Protocol Box ¹ | € 655 | A |
| 98-000055-05* | Demo Kit, MS-3 | € 595 | * |

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

¹ Part is not RoHS compliant.

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 97-000002-01 | Power Supply, 90-264 VAC,+5VDC, USA /Euro Plug (use with IB-3PC) | € 83 | A |
| 97-100004-15 | Power Supply, 90-264 VAC,+24VDC USA /Euro Plug (only for IC-332 or connect 210) | € 138 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-000048-01 | Mounting Arm/Adapter Kit, 4 inch, MS-3 | € 77 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, MS-3 | € 33 | A |
| 98-000053-01 | Extension Kit, 4 inch, MS-3 | € 39 | A |
| 98-000053-02 | Extension Kit, 3 inch, MS-3 | € 39 | A |
| 98-000060-01 | Kit, Bracket, Side Mount, MS-3 | € 22 | A |
| 98-000059-01 | Kit, Bracket, Angle Mount, MS-3 | € 22 | A |
| 98-000057-01 | Kit, Bracket, Through Hole Mount, MS-3 | € 22 | A |
| 98-000058-02 | Kit, Extended Right Angle Mirror, MS-3 | € 55 | A |
| 98-000061-03 | MS-3 to MS-520/MS-525, Bracket Conversion Kit | € 22 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw terminal and field wireable- cust. wiring IB-131/MS-Con. 210) | € 33 | A |
| 20-610020-01 | Power Connector, 3-pin Socket (screw term.and field wireable - cust. wiring IB-131/MS-Con. 210) | € 33 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON (IB-131 and MS-Connect 210) | € 193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON (IB-131 and MS-Connect 210) | € 193 | A |

Software/Manuals

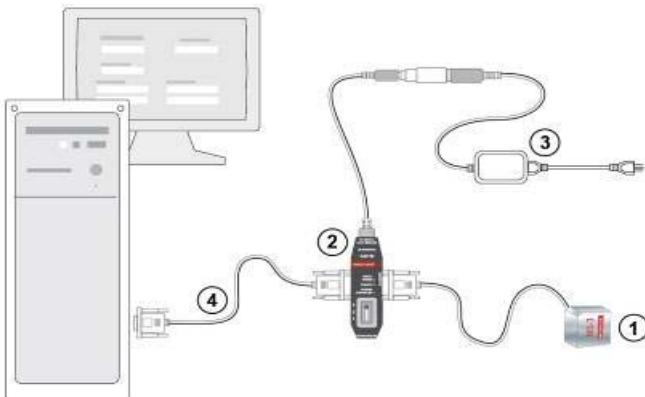
| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software | € 30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | € 30 | A |

* 1 free per order.

Tech Reference MS-3

Stand Alone (5V)

This is the basic setup for a single MS-3.



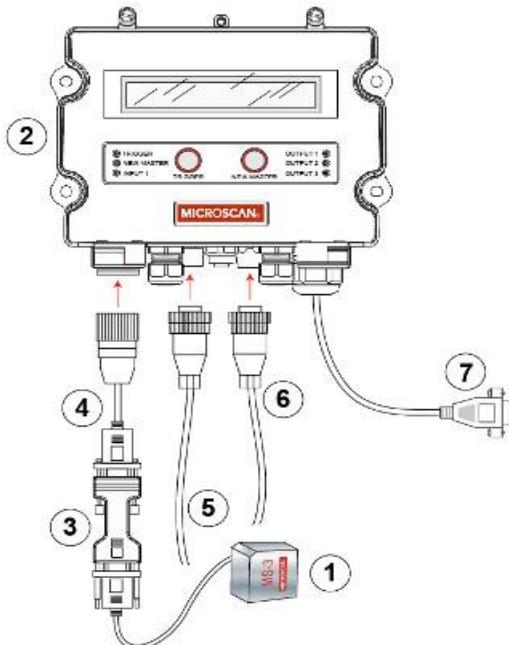
System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------------|--|-------------------|
| (1) MS-3 Laser | FIS-0003-XXXXG | Scanner Model | Varies |
| (2) IB-3PC | FIS-0001-0030G | Keyboard Wedge/Interface Box | €110 |
| (3) Power Supply | 97-000002-01 | Power Supply, 90-264 VAC, +5VDC | €83 |
| (4) Communication Cable | 61-000010-02 | 9-pin Socket to 9-pin Socket, 6 ft | €33 |
| Mounting Arm/Adapter Kit | 98-000048-01 | 4" (102mm) Mounting Kit | €77 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

Stand Alone (5V)

This is the basic setup for a single MS-3 and MS-Connect 210.



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0003-XXXXG | Scanner Model | Varies |
| 2 | FIS-0210-000XG | Connectivity Box ^A | Varies |
| 3 | FIS-0001-0035G | Converts the Voltage Level to 10-28 for the MS-3 | €165 |
| 4 | 61-000127-02 | Cable, MS-3 to MS-Connect 210, 6 ft | €33 |
| 5 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 6 | 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | €193 |
| 7 | 61-000105-01 | Pre-stripped RS-232, 9-pin host cable ** | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

^A See MS-Connect Series section for a complete listing of Accessories

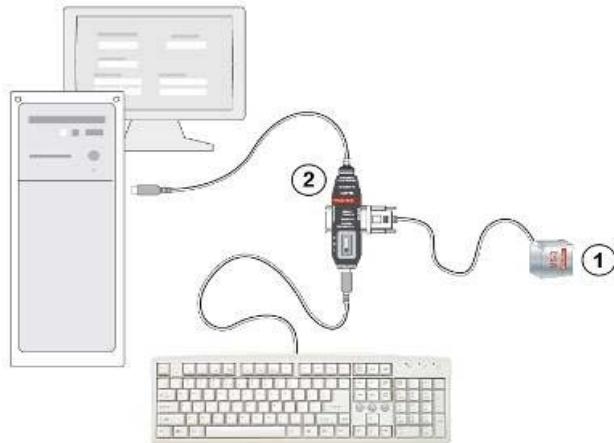
** 1 free host cable is included with each MS-Connect 210

* 1 free per order.

Tech Reference MS-3

Keyboard Wedge

Allows the scanner to bypass RS-232 port and input data to a host via the keyboard line.



System Matrix

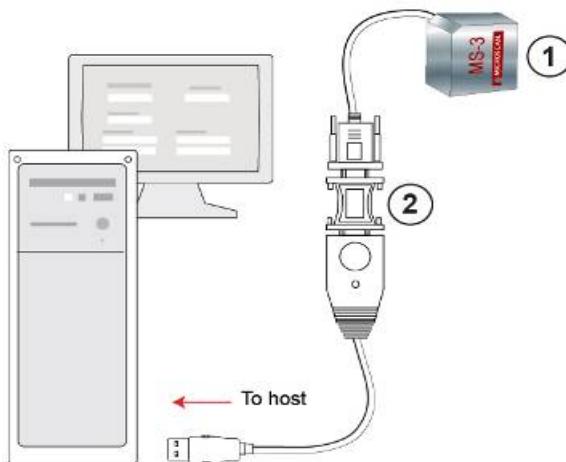
| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0003-XXXXG | Scanner Model | Varies |
| 2 | FIS-0001-0030G | Keyboard Wedge/Interface Box | €110 |
| Mounting Arm/Adapter Kit | 98-000048-01 | 4" (102mm) Mounting Kit | €77 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

Tech Reference MS-3

USB

Allows the scanner to be powered and communicate via a USB port (virtual com port).



System Matrix

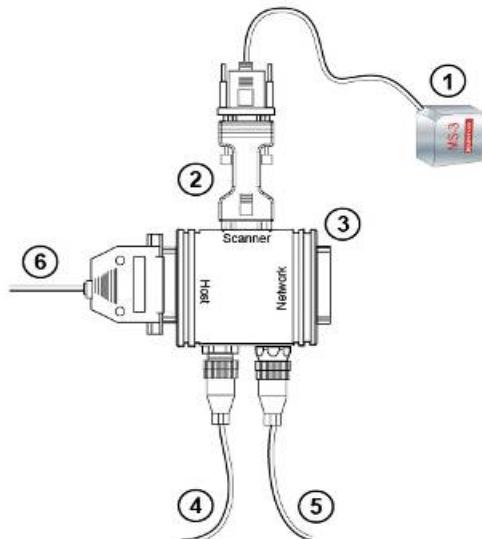
| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0003-XXXXG | Scanner Model | Varies |
| 2 | 98-000051-01 | Converts to USB Standard | € 83 |
| Mounting Arm/Adapter Kit | 98-000048-01 | 4" (102mm) Mounting Kit | € 77 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | € 33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | € 30 |

* 1 free per order.

Tech Reference *MS-3*

Stand Alone (10-28V)

This is the basic setup for a single MS-3.



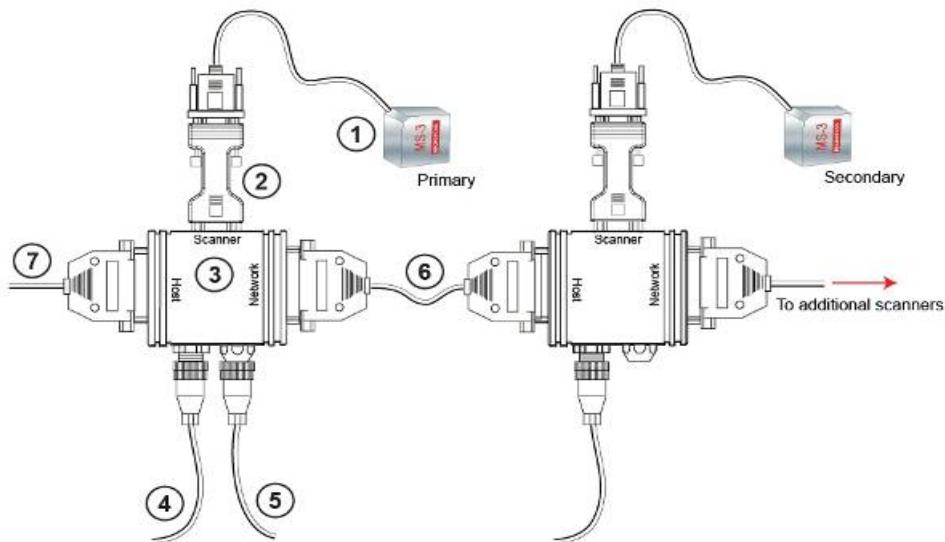
System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------------|--|-------------------|
| 1 | FIS-0003-XXXXG | Scanner Model | Varies |
| 2 | FIS-0001-0035G | Adapts an MS-3 to an MS-9 Pinout, Converts the Voltage Level to 10-28, Allows Connection to IB-131 | €165 |
| 3 | 99-000018-01 | Interface Box | €165 |
| 4 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 5 | 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | €193 |
| 6 | 61-300026-03 | 25-pin Plug to 9-pin Socket , 6 ft | €33 |
| Mounting Arm/Adapter Kit | 98-000048-01 | 4" (102mm) Mounting Kit | €77 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

Daisy Chain

A primary scanner is linked directly to the host. Secondary scanners (up to 9) are linked in tandem. Data is sent from the primary scanner directly to the host.

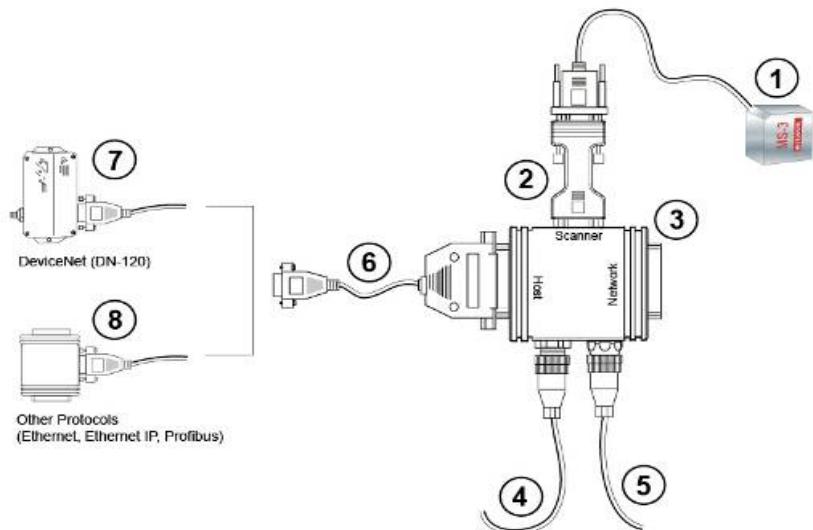


System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0003-XXXXG | Scanner Model | Varies |
| 2 | FIS-0001-0035G | Adapts an MS-3 to an MS-9 Pinout, Converts the Voltage Level to 10-28, Allows Connection to IB-131 | € 165 |
| 3 | 99-000018-01 | Interface Box | € 165 |
| 4 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | € 138 |
| 5 | 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | € 193 |
| 6 | 61-100029-03 | IB-131 to IB-131, 1 ft (0.3 meters) | € 33 |
| 7 | 61-300026-03 | 25-pin Plug to 9-pin Socket, 6 ft | € 33 |
| Mounting Arm/Adapter Kit | 98-000048-01 | 4" (102mm) Mounting Kit | € 77 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | € 33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | € 30 |

* 1 free per order.

Optional Interface Protocols



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0003-XXXXG | Scanner Model | Varies |
| 2 | FIS-0001-0035G | Adapts an MS-3 to an MS-9 Pinout, Converts the Voltage Level to 10-28, Allows Connection to IB-131 | € 165 |
| 3 | 99-000018-01 | Interface Box | € 165 |
| 4 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | € 138 |
| 5 | 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | € 193 |
| 6 | 61-300026-03 | 25-pin Plug to 9-pin Socket , 6 ft | € 33 |
| 7 | 20-500013-01 | DeviceNet Protocol Box ¹ | € 655 |
| 8 | Third Party | Ask your Microscan sales representative which solution is appropriate for your application. | Varies |
| Mounting Arm/Adapter Kit | 98-000048-01 | 4" (102mm) Mounting Kit | € 77 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | € 33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | € 30 |

¹ Part is not RoHS compliant.

* 1 free per order.

MS-9 High Speed Scanner

Read Ranges *

| Narrow Bar | | High Density |
|-------------------|-----------------------------|--------------|
| 5 mil (.127 mm) | 1.75" to 3.0" (44 to 76 mm) | |
| 7.5 mil (.191 mm) | 1.5" to 4.0" (38 to 101 mm) | |
| Narrow Bar | | Low Density |
| 7.5 mil (.191 mm) | 2.0" to 5.0" (50 to 127 mm) | |
| 10 mil (.254 mm) | 1.5" to 6.0" (38 to 152 mm) | |
| 15 mil (.381 mm) | 1.0" to 7.0" (25 to 178 mm) | |
| 20 mil (.508 mm) | 1.0" to 9.0" (25 to 230 mm) | |

* Call for custom focus.



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Scanners *

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0911-0001G | Single Line, Low Density, RS-232/422/485, 10-28 VDC | €1,645 | P |
| FIS-0911-0002G | Single Line, High Density, RS-232/422/485, 10-28 VDC | €1,645 | P |
| FIS-0911-0003G | Single Line, OMR, Low Density, RS-232/422/485, 10-28 VDC | €1,865 | P |
| FIS-0911-0004G | Single Line, OMR, High Density, RS-232/422/485, 10-28 VDC | €1,865 | P |
| FIS-0911-0005G | Raster Line, Low Density, RS-232/422/485, 10-28 VDC | €1,755 | P |
| FIS-0911-0006G | Raster Line, High Density, RS-232/422/485, 10-28 VDC | €1,755 | P |
| FIS-0911-0007G | Single Line, Low Density, Pharmacode, RS-232/422/485, 10-28 VDC | €1,645 | P |

* Scanner has a 3 ft cable terminated with a HD 15 Pin D-sub.

Accessories

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |
| 61-000127-02 | Cable, MS-9 to MS-Connect 210, 6 ft | €110 | A |
| 99-000018-01 | IB-131 Interface Box | €165 | A |
| FIS-0001-0030G | IB-3PC Keyboard Wedge/Interface Box * | €110 | A |
| 20-500013-01 | DeviceNet Protocol Box ** | €655 | A |
| 98-000051-01 | USB Conversion Kit, IC-3USB * | €83 | A |
| 98-000039-02 | Kit, IB-152, DB25 Plug Terminal Block, DB25 Gender Changer * | €138 | A |
| 61-300026-03 | Cable, Communication, DB-25 Plug to DB-9 Socket, 6 ft. | €33 | A |
| 61-100029-03 | Cable, IB-131 Daisy Chain, 1 ft | €33 | A |
| 61-000011-02 | Cable, MS-820 to IB-131 (also use for MS-3, 4, 9, 710 and MINI Extension) | €33 | A |

* Works with IB-131. ** Works with IB-131; not RoHS compliant.

Power Supply

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA /Euro Plug | €138 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-200036-01 | Right Angle Down Mirror | €83 | A |
| 98-000092-01 | Standard Flat Mounting Plate Kit, Custom Surfaces | €22 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw terminal and field wireable) (for self wiring) | €33 | A |
| 20-610020-01 | Power Connector, 3-pin Socket (screw terminal and field wireable) (for self wiring) | €33 | A |
| 98-000019-01 | Mounting Arm/Adapter Kit, MS-9, 6 inch | €99 | A |
| 98-000037-01 | Extension Kit, All Scanners', 6 inch | €61 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, Small | €33 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--------------------------------------|------------|------|
| 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | €193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | €193 | A |

Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | €30 | A |

* 1 free per order.

Prices and Specifications Subject to Change

Tel: 425.226.5700

Fax: 425.226.8250

€100 Minimum Order

07-0000001-02 Rev AG

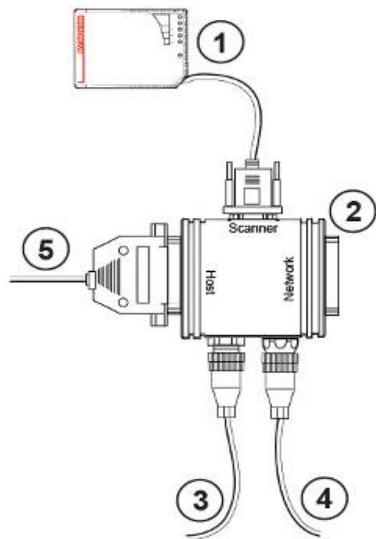
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Stand Alone

This is the basic setup for a single MS-9.



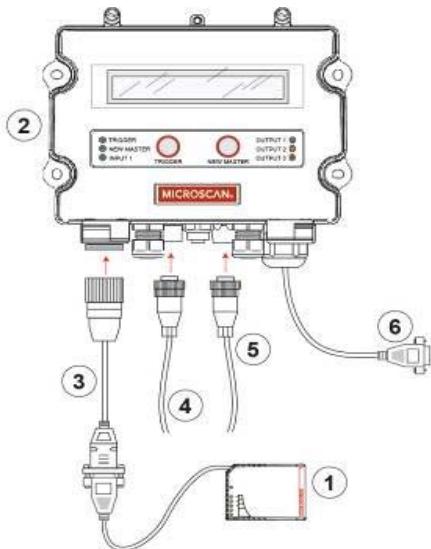
System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0911-XXXXG | Scanner Models | Varies |
| 2 | 99-000018-01 | Interface Module | €165 |
| 3 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 4 | 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | €193 |
| 5 | 61-300026-03 | Connects Decoder to the PC (Host), 6 ft | €33 |
| Mounting Arm/Adapter Kit | 98-000019-01 | Adjustable, 6 inch Mounting Arm | €99 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

Stand Alone

This is the basic setup for a single MS-9 and MS-Connect 210.



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0911-XXXXG | Scanner Models | Varies |
| 2 | FIS-0210-000XG | Connectivity Box * | Varies |
| 3 | 61-000127-02 | Cable, MS-9 to MS-Connect 210, 6 ft | €33 |
| 4 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 5 | 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | €193 |
| 6 | 61-000105-01 | Pre-stripped RS-232, 9-pin host cable ** | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software*** | €30 |

* See MS-Connect Series section for a complete listing of Accessories

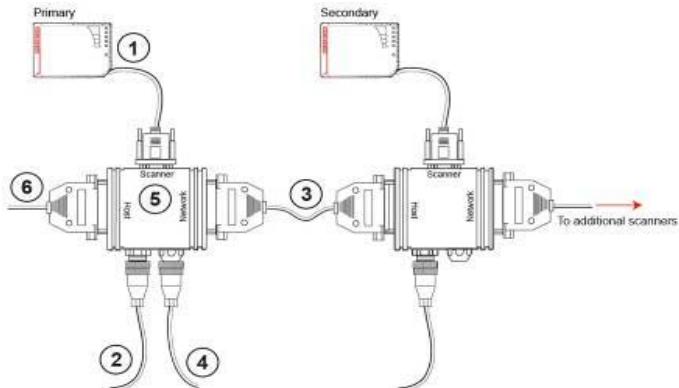
** 1 free host cable is included with each MS-Connect 210

*** 1 free per order.

Tech Reference MS-9

Daisy Chain

A primary scanner is linked directly to the host. Secondary scanners (up to 9) are linked in tandem. Data is sent from the primary scanner directly to the host.

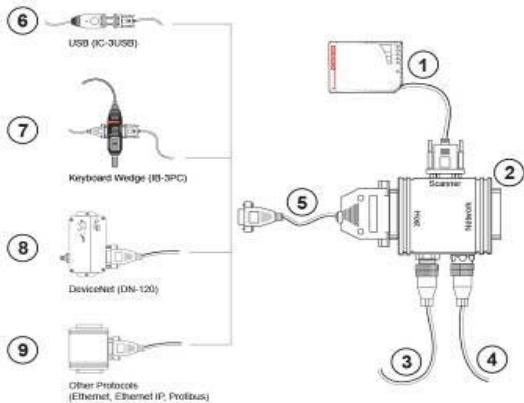


System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0911-XXXXG | Scanner Models | Varies |
| 2 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 3 | 61-100029-03 | Connects the IB-131 to IB-131, 1 ft | €33 |
| 4 | 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | €193 |
| 5 | 99-000018-01 | Interface Module | €165 |
| 6 | 61-300026-03 | Connects IB-131 to the PC (Host), 6 ft | €33 |
| Mounting Arm/Adapter Kit | 98-000019-01 | Adjustable, 6 inch Mounting Arm | €99 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

Optional Interface Protocols



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|---|------------|
| 1 | FIS-0911-XXXXG | Scanner Models | Varies |
| 2 | 99-000018-01 | Interface Module | €165 |
| 3 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA/Euro Plug | €138 |
| 4 | 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | €193 |
| 5 | 61-300026-03 | Connects IB-131 to the PC (Host), 6 ft | €33 |
| 6*** | 98-000051-01 | USB Conversion Kit | €83 |
| 7**** | FIS-0001-0030G | Keyboard Wedge PC Interface | €110 |
| 8 | 20-500013-01 | DeviceNet Protocol Box ¹ | €655 |
| 9 | Third Party | Ask your Microscan sales representative which solution is appropriate for your application. | Varies |
| Mounting Arm/Adapter Kit | 98-000019-01 | Adjustable, 6 inch Mounting Arm | €99 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

**Pin Converter is not required for this configuration.

***Set the IB-3PC to **position 2** in this configuration.

¹ Part is not RoHS compliant.

MICROSCAN

QX-830 High Performance Compact Industrial Barcode Reader

Read Ranges

| Narrow Bar | | High Density |
|-------------------|---------------|-----------------|
| 5 mil (.127 mm) | 4.0" to 5.5" | (101 to 140 mm) |
| 7.5 mil (.191 mm) | 3.5" to 6.75" | (89 to 171 mm) |
| 10 mil (.254 mm) | 3.25" to 8.0" | (82 to 203 mm) |
| 15 mil (.381 mm) | 3.25" to 9.0" | (82 to 228 mm) |
| Narrow Bar | | Medium Density |
| 7.5 mil (.191 mm) | 2.5" to 5.5" | (64 to 140 mm) |
| 10 mil (.254 mm) | 1.5" to 7.0" | (38 to 178 mm) |
| 15 mil (.381 mm) | 1.5" to 8.5" | (38 to 216 mm) |
| 20 mil (.508 mm) | 1.5" to 11" | (38 to 280 mm) |
| 30 mil (.762 mm) | 1.0" to 12" | (25 to 304 mm) |
| Narrow Bar | | Low Density |
| 7.5 mil (.191 mm) | 10" to 12" | (254 to 304 mm) |
| 10 mil (.254 mm) | 7.0" to 16" | (177 to 406 mm) |
| 15 mil (.381 mm) | 6.0" to 19" | (152 to 483 mm) |
| 20 mil (.508 mm) | 5.0" to 22" | (127 to 558 mm) |
| 40 mil (1.02 mm) | 4.0" to 30" | (101 to 762 mm) |



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Scanners

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-0830-0001G | QX-830, Industrial Barcode Reader, Single Line, Low Density, Serial | €1,370 | P |
| FIS-0830-0002G | QX-830, Industrial Barcode Reader, Single Line, Medium Density, Serial | €1,370 | P |
| FIS-0830-0003G | QX-830, Industrial Barcode Reader, Single Line, High Density, Serial | €1,370 | P |
| FIS-0830-0004G | QX-830, Industrial Barcode Reader, Raster Line, Low Density, Serial | €1,370 | P |
| FIS-0830-0005G | QX-830, Industrial Barcode Reader, Raster Line, Medium Density, Serial | €1,370 | P |
| FIS-0830-0006G | QX-830, Industrial Barcode Reader, Raster Line, High Density, Serial | €1,370 | P |
| FIS-0830-0010G | QX-830, Industrial Barcode Reader, Raster Line, Low Density, Serial, Plastic Window | €1,370 | P |
| FIS-0830-1001G | QX-830, Industrial Barcode Reader, Single Line, Low Density, Serial+Ethernet | €1,525 | P |
| FIS-0830-1002G | QX-830, Industrial Barcode Reader, Single Line, Medium Density, Serial+Ethernet | €1,525 | P |
| FIS-0830-1003G | QX-830, Industrial Barcode Reader, Single Line, High Density, Serial+Ethernet | €1,525 | P |
| FIS-0830-1004G | QX-830, Industrial Barcode Reader, Raster Line, Low Density, Serial+Ethernet | €1,525 | P |
| FIS-0830-1005G | QX-830, Industrial Barcode Reader, Raster Line, Medium Density, Serial+Ethernet | €1,525 | P |
| FIS-0830-1006G | QX-830, Industrial Barcode Reader, Raster Line, High Density, Serial+Ethernet | €1,525 | P |
| FIS-0830-1010G | QX-830, Industrial Barcode Reader, Raster Line, Low Density, Serial+Ethernet, Plastic Window | €1,525 | P |

Accessories

| Part Number | Description | List Price | Type |
|---------------|----------------------|------------|------|
| 98-000102-01* | Demo Kit, QX 830/870 | €425 | * |

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

Prices and Specifications Subject to Change

Tel: **425.226.5700**
Fax: **425.226.8250**

€100 Minimum Order
07-0000001-02 Rev AG
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QX-830 Industrial Scanner Continued

QX-1 and Cordsets

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| 98-000103-02 | QX-1 Interface Device | €151 | A |
| 61-000148-01 | QX Cordset, Common, M12 12 Pin, Socket(Ultraock) to M12 12 Pin, Plug(Ultraock), 3M | €57 | A |
| 61-000148-02 | QX Cordset, Common, M12 12 Pin, Socket(Screw-on) to M12 12 Pin Plug(Screw-on), 3M | €53 | A |
| 61-000162-01 | QX Cordset, Common, M12 12 Pin, Socket(Ultraock) to M12 12 Pin, Plug(Ultraock), 1M | €53 | A |
| 61-000162-02 | QX Cordset, Common, M12 12 Pin, Socket(Screw-on) to M12 12 Pin Plug(Screw-on), 1M | €49 | A |
| 61-000153-01 | QX Cordset, Host, Serial, M12 12 Pin Socket(Ultraock) to DB9 Socket, 1M | €53 | A |
| 61-000153-02 | QX Cordset, Host, Serial M12 12 pin Socket(Screw-on) to DB9 Socket, 1M | €49 | A |
| 61-000164-01 | QX Cordset, Host, Serial, M12 12 pin Socket(Ultraock) to DB9 Socket, 3M | €57 | A |
| 61-000164-02 | QX Cordset, Host, Serial, M12 12 pin Socket(Screw-on) to DB9 Socket, 3M | €53 | A |
| 61-000152-01 | QX Cordset, Host, Serial M12 12 pin Plug(Ultraock) to DB9 Socket, 1M | €53 | A |
| 61-000152-02 | QX Cordset, Host, Serial, M12 12 pin Plug (Screw-down) to DB9 Socket, 1M | €49 | A |
| 61-000165-01 | QX Cordset, Host, Serial M12 12 pin Plug(Ultraock) to DB9 Socket, 3M | €57 | A |
| 61-000165-02 | QX Cordset, Host, Serial M12 12 pin Plug(Screw-on) to DB9 Socket, 3M | €57 | A |
| 61-000163-01 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Ultraock) to RJ45, 3M | €57 | A |
| 61-000163-02 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Screw-on) to RJ45, 3M | €57 | A |
| 61-000160-01 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Ultraock) to RJ45, 1M | €53 | A |
| 61-000160-02 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Screw-on) to RJ45, 1M | €49 | A |
| 61-000161-01 | QX Cordset, M12 12 pin Plug(Ultraock) to MS-5100, 3M | €57 | A |
| 61-000161-02 | QX Cordset, M12 12 pin Plug(Screw-on) to MS-5100, 3M | €53 | A |
| 61-000172-01 | QX Cordset, M12 12 pin Plug(Ultraock) to M12 12 pin Socket(Ultraock) to DB25 Plug | €215 | A |
| 61-000158-03 | QX Cordset, M12 12 Pin Plug & Socket(Ultraock) to MS-Connect 210, RS-232, 2M | €176 | A |
| 61-000158-04 | QX Cordset, M12 12 Pin Plug & Socket(Ultraock) to MS-Connect 210, RS-422/485, 2M | €176 | A |
| 61-000166-01 | QX Cordset, M12 12 Pin Plug(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000166-02 | QX Cordset, M12 12 Pin Plug(Screw-on) to Flying Leads, 3M | €53 | A |
| 61-000167-01 | QX Cordset, M12 12 Pin Socket(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000167-02 | QX Cordset, M12 12 Pin Socket(Screw-on) to Flying Leads, 3M | €53 | A |
| 61-000159-03* | QX Cordset, M12 Pin Socket to IB-131, RS-232, 2M | €120 | A |
| 61-000159-04** | QX Cordset, M12, Pin Socket to IB-131, RS-232 / RS-485, 2M | €120 | A |
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |

*Use this cable for MS-820 to QX-830 Transition, RS-232

**Use this cable for MS-820 to QX-830 Transition, RS-422 / 485

MICROSCAN

QX-830 Industrial Scanner Continued

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 97-000003-01 | QX Power Supply, M12 12 pin Socket, 1.3m | € 88 | A |
| 97-000003-02 | QX Power Supply, M12 12 pin Plug, 1.3m | € 88 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 99-000020-02 | QX Photo sensor, M12 4pin Plug, NPN, Dark On, 2m | € 193 | A |
| 99-000020-01 | QX Photo sensor, M12 4pin Plug, NPN, Dark Off, 2m | € 193 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-500006-01 | Mounting Plate Kit, Flat, Custom Surfaces * | € 22 | A |
| 98-200026-02 | Right Angle Mirror Kit | € 83 | A |
| 61-000166-01 | QX Cordset, M12 12 Pin Plug(Ultralock) to Flying Leads, 3M | € 57 | A |
| 61-000167-01 | QX Cordset, M12 12 Pin Socket(Ultralock) to Flying Leads, 3M | € 57 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw terminal and field wireable) (for self wiring) | € 33 | A |
| 98-000016-01 | Mounting Arm/Adapter Kit, MS-820/QX-830/QX-870, 6 inch | € 99 | A |
| 98-000037-01 | Extension Kit, All Scanners, 6 inch | € 61 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, Small | € 33 | A |

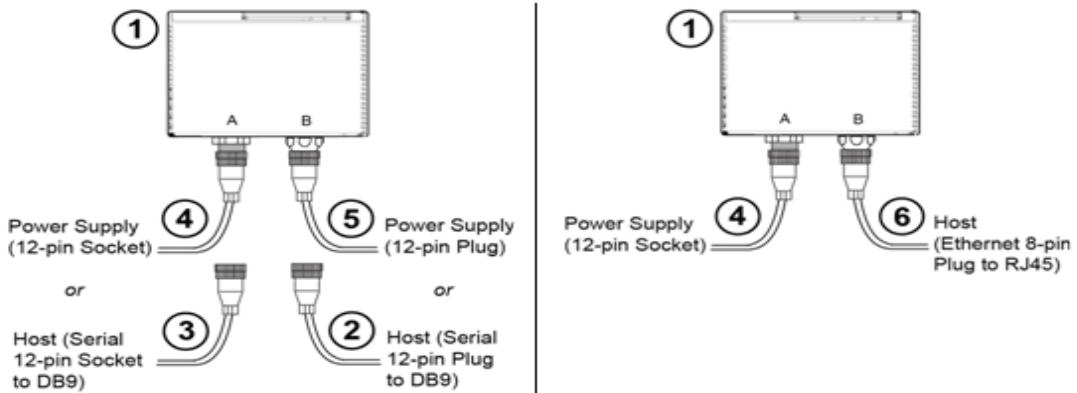
* Though-hole mounting plate; not for use with mounting arm.

Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | € 30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | € 30 | A |

* 1 free per order.

Stand Alone Configurations



| Item | Part Number | Description | List Price |
|------|----------------|--|------------|
| 1 | FIS-0830-XXXXG | QX-830 Compact Industrial Scanner | Varies |
| 2 | 61-000152-01 | QX Cordset, Host, Serial, M12 12-pin Plug to DB9, 1m * | €53 |
| 3 | 61-000153-01 | QX Cordset, Host, Serial, M12 12-pin Socket to DB9, 1m * | €53 |
| 4 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | €88 |
| 5 | 97-000003-02 | QX Power Supply, M12 12-pin Plug, 1.3m | €88 |
| 6 | 61-000160-01 | QX Cordset, Host, Ethernet, M12 8-pin Plug to RJ45, 1m * | €53 |
| | 98-000016-01 | Adjustable, 6 inch Mounting Arm | €99 |
| | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

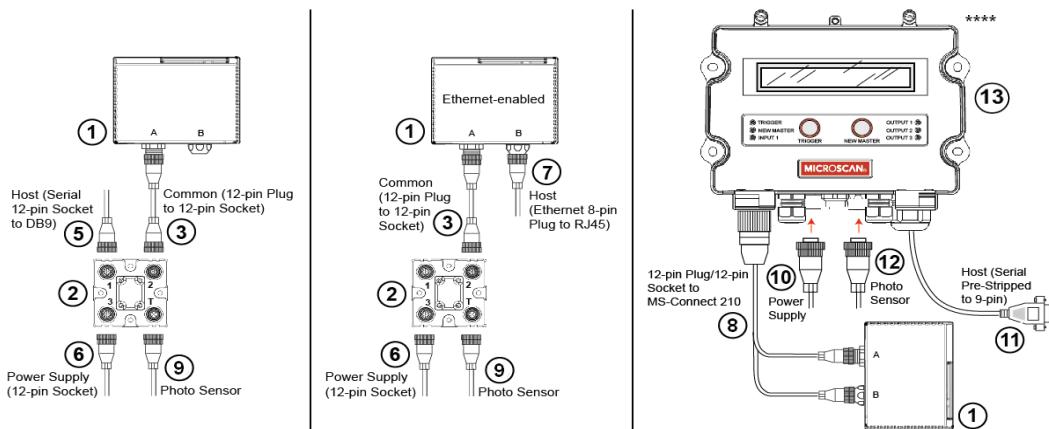
* Cordsets available in multiple lengths

** One free per order.

Tech Reference QX-830

Stand Alone Configurations

With QX-1 or MS-Connect 210



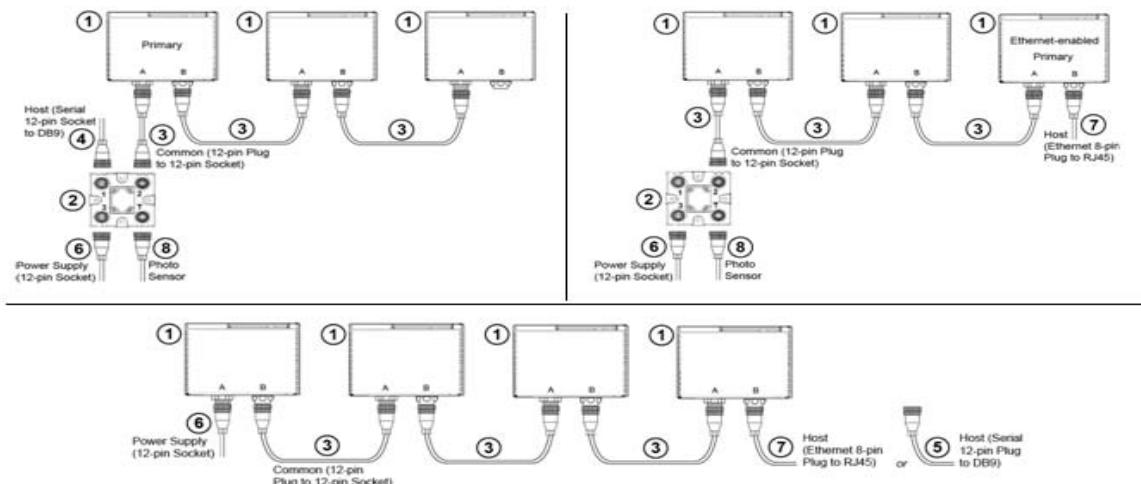
| Item | Part Number | Description | List Price |
|------|----------------|---|------------|
| 1 | FIS-0830-XXXXG | QX-830 Compact Industrial Scanner | Varies |
| 2 | 98-000103-02 | QX-1 Interface Device | €151 |
| 3 | 61-000162-01 | QX Cordset, Common, M12 12-pin Plug to M12 12-pin Socket, 1m * | €53 |
| 4 | 61-000152-01 | QX Cordset, Host, Serial, M12 12-pin Plug to DB9, 1m * | €53 |
| 5 | 61-000153-01 | QX Cordset, Host, Serial, M12 12-pin Socket to DB9, 1m * | €53 |
| 6 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | €88 |
| 7 | 61-000160-01 | QX Cordset, Host, Ethernet, M12 8-pin Plug to RJ45, 1m * | €53 |
| 8 | 61-000158-03 | QX Cordset, M12 12-pin Plug & M12 12-pin Socket to MS-Connect 210, (RS-232), 2m | €176 |
| 9 | 99-000020-02 | QX Photo Sensor, M12 4-pin Plug, NPN, Dark On, 2m | €193 |
| 10 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 11 | 61-000105-01 | Pre-stripped RS-232, 9-pin host cable | €33 |
| 12 | 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | €193 |
| 13 | FIS-0210-000XG | Connectivity Box **** | Varies |
| | 98-000016-01 | Adjustable, 6 inch Mounting Arm Kit | €99 |
| | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

* Cordsets available in multiple lengths

** One free per order.

**** Refer to MS-Connection section for complete listing of MS-Connection 210 options

Daisy Chain Configurations

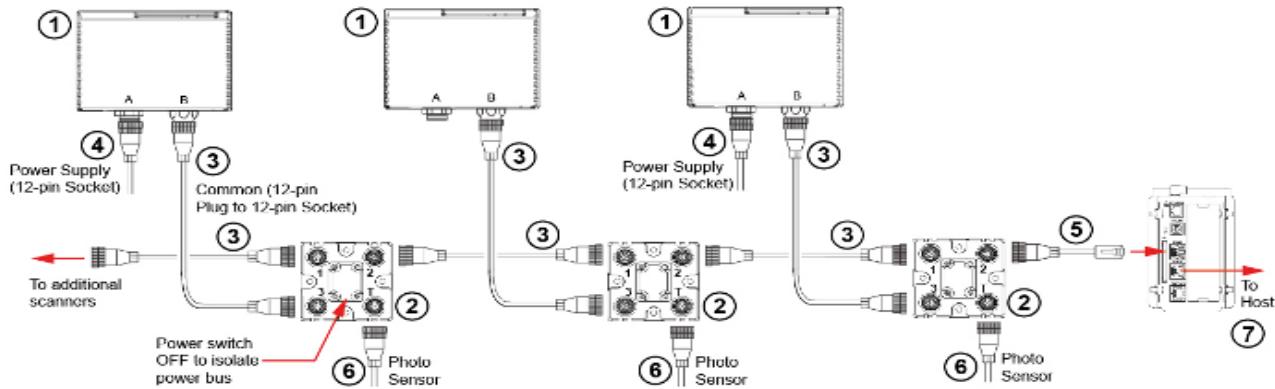


| Item | Part Number | Description | List Price |
|------|----------------|--|------------|
| 1 | FIS-0830-XXXXG | QX-830 Compact Industrial Scanner | Varies |
| 2 | 98-000103-02 | QX-1 Interface Device | €151 |
| 3 | 61-000162-01 | QX Cordset, Common, M12 12-pin Plug to M12 12-pin Socket, 1m * | €53 |
| 4 | 61-000153-01 | QX Cordset, Host, Serial, M12 12-pin Socket to DB9, 1m * | €53 |
| 5 | 61-000152-01 | QX Cordset, Host Serial, M12 12-pin Plug to DB9, 1m * | €53 |
| 6 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | €88 |
| 7 | 61-000160-01 | QX Cordset, Host, Ethernet, M12 8-pin Plug to RJ45, 1m * | €53 |
| 8 | 99-000020-02 | QX Photo Sensor, M12 4-pin Plug, NPN, Dark On, 2m | €193 |
| | 98-000016-01 | Adjustable, 6 inch Mounting Arm Kit | €99 |
| | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

* Cordsets available in multiple lengths

** One free per order.

Multidrop Configuration



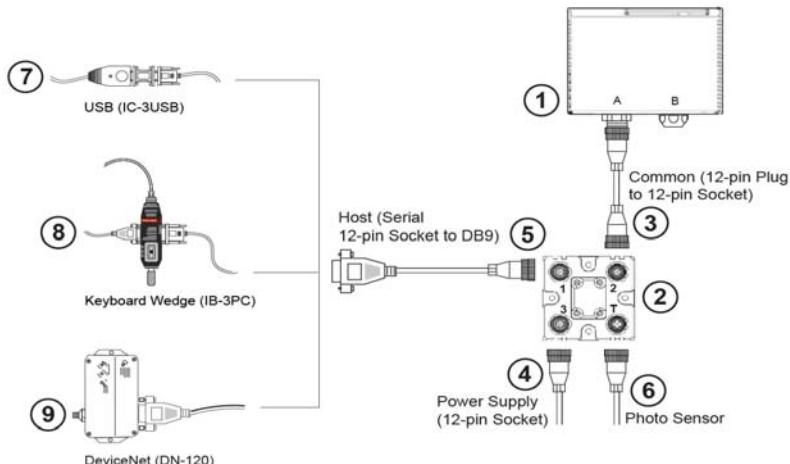
All Trigger Switched must be off.

| Item | Part Number | Description | List Price |
|------|--|--|------------|
| 1 | FIS-0830-XXXXG | QX-830 Compact Industrial Scanner | Varies |
| 2 | 98-000103-02 | QX-1 Interface Device | €151 |
| 3 | 61-000162-01* | QX Cordset, Common, M12 12-pin Plug to M12 12-pin Socket, 1m * | €53 |
| 4 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | €88 |
| 5 | 61-000161-01 | QX Cordset, M12 12-pin Plug to MS-Connect 5100, 3m | €57 |
| 6 | 99-000020-02 | QX Photo Sensor, M12 4-pin Plug, NPN, Dark On, 2m | €193 |
| 7 | See page 102 for MS-Connect 5100 to host communication options | | Varies |
| | 98-000016-01 | Adjustable, 6 inch Mounting Arm Kit | €99 |
| | 98-000054-01 | Mounting Stand Base Plate, Small | 33 |
| | 37-000010-01** | TOOLS DRIVE, User Documentation, Software** | €30 |

* Cordsets available in multiple lengths. See Accessories section for additional detail.

** One free per order.

Optional Interface Protocols



| Item | Part Number | Description | List Price |
|------|----------------|--|------------|
| 1 | FIS-0830-XXXXG | QX-830 Compact Industrial Scanner | Varies |
| 2 | 98-000103-02 | QX-1 Interface Device | €151 |
| 3 | 61-000162-01 | QX Cordset, Common, M12 12-pin Plug to M12 12-pin Socket, 1m * | €53 |
| 4 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | €88 |
| 5 | 61-000153-01 | QX Cordset, Host, Serial, M12 12-pin Socket to DB9, 1m * | €53 |
| 6 | 99-000020-02 | QX Photo Sensor, M12 4-pin Plug, NPN, Dark On, 2m | €193 |
| 7 | 98-000051-01 | IC3-USB, USB Conversion Kit | €83 |
| 8 | FIS-0001-0030G | Keyboard Wedge PC Interface | €110 |
| 9 | 20-500013-01 | DeviceNet Protocol Box ¹ | €655 |
| | 98-000016-01 | Adjustable, 6 inch Mounting Arm Kit | €99 |
| | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

* Cordsets available in multiple lengths. See Accessories section for additional detail.

** One free per order.

¹ Part is not RoHS compliant part

QX-870 High Performance Industrial Sweeping Raster Barcode Reader

| Read Ranges | |
|-------------------|------------------------------|
| Narrow Bar | High Density |
| 5 mil (.127 mm) | 4" to 5" (102 to 127 mm) |
| 7.5 mil (.191 mm) | 3.5" to 6.75" (89 to 171 mm) |
| 10 mil (.254 mm) | 3.25" to 8" (82 to 203 mm) |
| 15 mil (.381 mm) | 3.25" to 9" (82 to 228 mm) |
| Medium Density | |
| 7.5 mil (.191 mm) | 2.5" to 5.5" (64 to 140 mm) |
| 10 mil (.254 mm) | 1.5" to 7" (38 to 178 mm) |
| 15 mil (.381 mm) | 1.5" to 8.5" (38 to 216 mm) |
| 30 mil (.762 mm) | 1" to 12" (25 to 304 mm) |
| Low Density | |
| 7.5 mil (.191 mm) | 10" to 12" (254 to 305 mm) |
| 10 mil (.254 mm) | 7" to 16" (178 to 406 mm) |
| 15 mil (.381 mm) | 6" to 19" (152 to 483 mm) |
| 20 mil (.508 mm) | 5" to 22" (127 to 558 mm) |
| 40 mil (1.02 mm) | 4" to 30" (102 to 762 mm) |



Important Pricing Discount Note Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

| Barcode Readers | | List Price | Type |
|-----------------|---|------------|------|
| Part Number | Description | | |
| FIS-0870-0004G | QX-870, Industrial Barcode Reader, Low Density, Sweeping Raster, Serial | €2,150 | P |
| FIS-0870-0005G | QX-870, Industrial Barcode Reader, Medium Density, Sweeping Raster, Serial | €2,150 | P |
| FIS-0870-0006G | QX-870, Industrial Barcode Reader, High Density, Sweeping Raster, Serial | €2,150 | P |
| FIS-0870-0007G | QX-870, Industrial Barcode Reader, Plastic Window, Low Density, Sweeping Raster, Serial | €2,380 | P |
| FIS-0870-1004G | QX-870, Industrial Barcode Reader, Low Density, Sweeping Raster, Serial+Ethernet | €2,315 | P |
| FIS-0870-1005G | QX-870, Industrial Barcode Reader, Medium Density, Sweeping Raster, Serial+Ethernet | €2,315 | P |
| FIS-0870-1006G | QX-870, Industrial Barcode Reader, High Density, Sweeping Raster, Serial+Ethernet | €2,315 | P |

QX-1 and Cordsets

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| 98-000103-02 | QX-1 Interface Device | €151 | A |
| 61-000148-01 | QX Cordset, Common, M12 12 Pin, Socket(Ultraock) to M12 12 Pin, Plug(Ultraock), 3M | €57 | A |
| 61-000148-02 | QX Cordset, Common, M12 12 Pin, Socket(Screw-on) to M12 12 Pin Plug(Screw-on), 3M | €53 | A |
| 61-000162-01 | QX Cordset, Common, M12 12 Pin, Socket(Ultraock) to M12 12 Pin, Plug(Ultraock), 1M | €53 | A |
| 61-000162-02 | QX Cordset, Common, M12 12 Pin, Socket(Screw-on) to M12 12 Pin Plug(Screw-on), 1M | €49 | A |
| 61-000153-01 | QX Cordset, Host, Serial, M12 12 Pin Socket(Ultraock) to DB9 Socket, 1M | €53 | A |
| 61-000153-02 | QX Cordset, Host, Serial M12 12 pin Socket(Screw-on) to DB9 Socket, 1M | €49 | A |
| 61-000164-01 | QX Cordset, Host, Serial, M12 12 pin Socket(Ultraock) to DB9 Socket, 3M | €57 | A |
| 61-000164-02 | QX Cordset, Host, Serial, M12 12 pin Socket(Screw-on) to DB9 Socket, 3M | €53 | A |
| 61-000152-01 | QX Cordset, Host, Serial M12 12 pin Plug(Ultraock) to DB9 Socket, 1M | €53 | A |
| 61-000152-02 | QX Cordset, Host, Serial, M12 12 pin Plug (Screw-down) to DB9 Socket, 1M | €49 | A |
| 61-000165-01 | QX Cordset, Host, Serial M12 12 pin Plug(Ultraock) to DB9 Socket, 3M | €57 | A |
| 61-000165-02 | QX Cordset, Host, Serial M12 12 pin Plug(Screw-on) to DB9 Socket, 3M | €57 | A |
| 61-000163-01 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Ultraock) to RJ45, 3M | €57 | A |
| 61-000163-02 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Screw-on) to RJ45, 3M | €57 | A |
| 61-000160-01 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Ultraock) to RJ45, 1M | €53 | A |
| 61-000160-02 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Screw-on) to RJ45, 1M | €49 | A |
| 61-000161-01 | QX Cordset, M12 12 pin Plug(Ultraock) to MS-5100, 3M | €57 | A |
| 61-000161-02 | QX Cordset, M12 12 pin Plug(Screw-on) to MS-5100, 3M | €53 | A |
| 61-000172-01 | QX Cordset, M12 12 pin Plug(Ultraock) to M12 12 pin Socket(Ultraock) to DB25 Plug | €215 | A |
| 61-000158-03 | QX Cordset, M12 12 Pin Plug & Socket(Ultraock) to MS-Connect 210, RS-232, 2M | €176 | A |
| 61-000158-04 | QX Cordset, M12 12 Pin Plug & Socket(Ultraock) to MS-Connect 210, RS-422/485, 2M | €176 | A |
| 61-000166-01 | QX Cordset, M12 12 Pin Plug(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000166-02 | QX Cordset, M12 12 Pin Plug(Screw-on) to Flying Leads, 3M | €53 | A |
| 61-000167-01 | QX Cordset, M12 12 Pin Socket(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000167-02 | QX Cordset, M12 12 Pin Socket(Screw-on) to Flying Leads, 3M | €53 | A |
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |

Prices and Specifications Subject to Change

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QX-870 Industrial Scanner Accessories (Similar to QX-830)

Accessories

| Part Number | Description | List Price | Type |
|---------------|----------------------|------------|------|
| 98-000102-01* | Demo Kit, QX 830/870 | € 425 | * |

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 97-000003-01 | QX Power Supply, M12 12 pin Socket, 1.3m | € 88 | A |
| 97-000003-02 | QX Power Supply, M12 12 pin Plug, 1.3m | € 88 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 99-000020-02 | QX Photo sensor, M12 4pin Plug, NPN, Dark On, 2m | € 193 | A |
| 99-000020-01 | QX Photo sensor, M12 4pin Plug, NPN, Dark Off, 2m | € 193 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-500006-01 | Mounting Plate Kit, Flat, Custom Surfaces * | € 22 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw terminal and field wireable) (for self wiring) | € 33 | A |
| 61-000166-01 | QX Cordset, M12 12 Pin Plug(Ultralock) to Flying Leads, 3M | € 57 | A |
| 61-000167-01 | QX Cordset, M12 12 Pin Socket(Ultralock) to Flying Leads, 3M | € 57 | A |
| 98-000016-01 | Mounting Arm/Adapter Kit, MS-820/QX-830/QX-870, 6 inch | € 99 | A |
| 98-000037-01 | Extension Kit, All Scanners, 6 inch | € 61 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, Small | € 33 | A |

* Though-hole mounting plate; not for use with mounting arm.

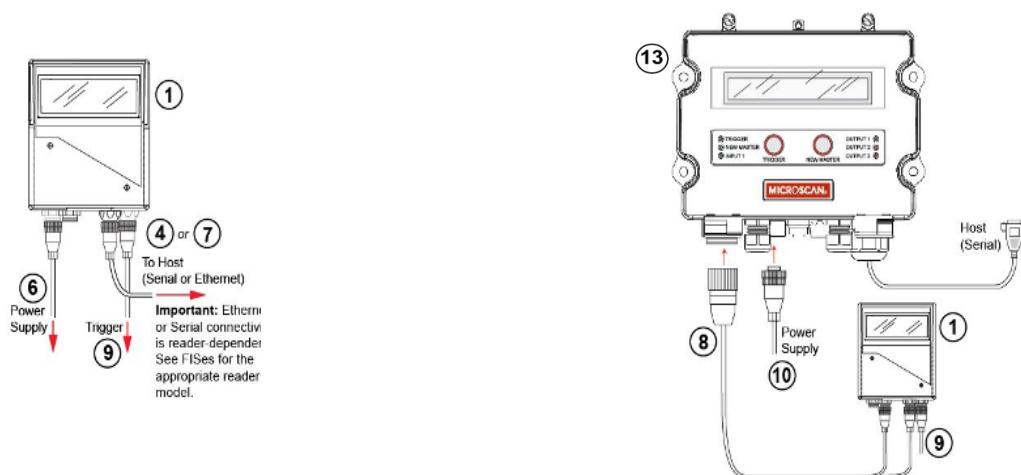
Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | € 30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | € 30 | A |

* 1 free per order.

Stand Alone Configurations

MS-Connect 210



| Item | Part Number | Description | List Price |
|------|----------------|---|------------|
| 1 | FIS-0870-XXXXG | QX-870 Industrial Raster Barcode Reader | Varies |
| 4 | 61-000152-01 | QX Cordset, Host, Serial, M12 12-pin Plug to DB9, 1m * | €53 |
| 6 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | €88 |
| 7 | 61-000160-01 | QX Cordset, Host, Ethernet, M12 8-pin Plug to RJ45, 1m * | €53 |
| 8 | 61-000158-03 | QX Cordset, M12 12-pin Plug & M12 12-pin Socket to MS-Connect 210, (RS-232), 2m | €176 |
| 9 | 99-000020-02 | Photo Sensor PNP*** | €193 |
| 10 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 13 | FIS-0210-000XG | Connectivity Box **** | Varies |
| | 98-000016-01 | Adjustable, 6 inch Mounting Arm Kit | €99 |
| | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

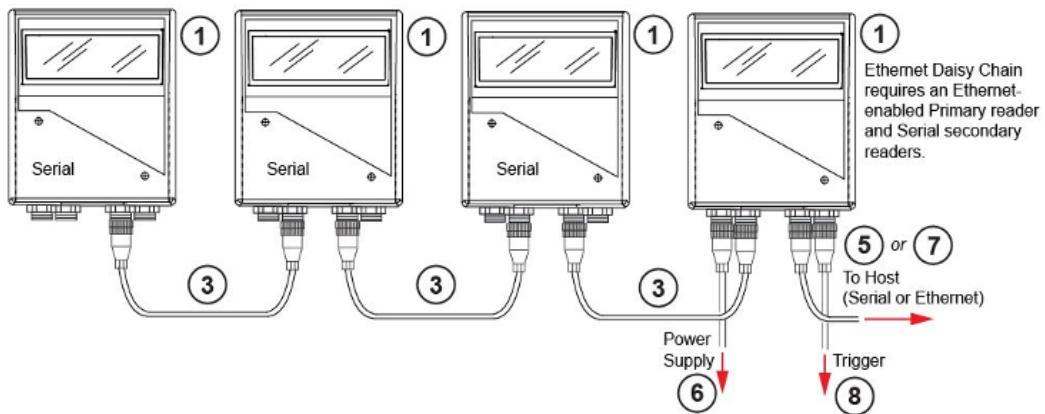
* Cordsets available in multiple lengths

** One free per order.

***QX-870 with MS-Connect 210 requires a PNP photo sensor such as IDEX SA1E-NP1 (LO) and -NP2 (DO)

**** Refer to MS-Connection section for complete listing of MS-Connection 210 options

Daisy Chain Configuration



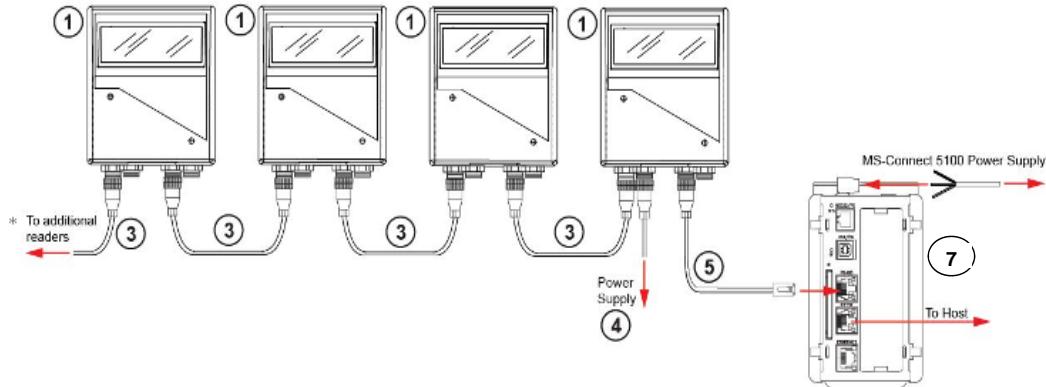
Please also Reference QX-830 section for alternative Daisy Chain configurations

| Item | Part Number | Description | List Price |
|------|----------------|--|------------|
| 1 | FIS-0870-XXXXG | QX-870 Industrial Raster Barcode Reader | Varies |
| 2 | 98-000103-02 | QX-1 Interface Device | €151 |
| 3 | 61-000162-01 | QX Cordset, Common, M12 12-pin Plug to M12 12-pin Socket, 1m * | €53 |
| 4 | 61-000153-01 | QX Cordset, Host, Serial, M12 12-pin Socket to DB9, 1m * | €53 |
| 5 | 61-000152-01 | QX Cordset, Host Serial, M12 12-pin Plug to DB9, 1m * | €53 |
| 6 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | €88 |
| 7 | 61-000160-01 | QX Cordset, Host, Ethernet, M12 8-pin Plug to RJ45, 1m * | €53 |
| 8 | 99-000020-02 | QX Photo Sensor, M12 4-pin Plug, NPN, Dark On, 2m | €193 |
| | 98-000016-01 | Adjustable, 6 inch Mounting Arm Kit | €99 |
| | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

* Cordsets available in multiple lengths

** One free per order.

Multidrop Configuration



* QX-1 required when powering more than 4 readers from a single power supply

| Item | Part Number | Description | List Price |
|------|--|--|------------|
| 1 | FIS-0870-XXXXG | QX-870 Industrial Raster Barcode Reader | Varies |
| 2 | 98-000103-02 | QX-1 Interface Device | € 151 |
| 3 | 61-000162-01* | QX Cordset, Common, M12 12-pin Plug to M12 12-pin Socket, 1m * | € 53 |
| 4 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | € 88 |
| 5 | 61-000161-01 | QX Cordset, M12 12-pin Plug to MS-Connect 5100, 3m | € 57 |
| 6 | 99-000020-02 | QX Photo Sensor, M12 4-pin Plug, NPN, Dark On, 2m | € 193 |
| 7 | See MS-Connect 5100 section for detailed options | | Varies |
| | 98-000016-01 | Adjustable, 6 inch Mounting Arm Kit | € 99 |
| | 98-000054-01 | Mounting Stand Base Plate, Small | € 33 |
| | 37-000010-01** | TOOLS DRIVE, User Documentation, Software** | € 30 |

* Cordsets available in multiple lengths. See Accessories section for additional detail.

** One free per order.

MS-890 Industrial Barcode Reader

Read Ranges

Narrow Bar

| | |
|-------------------|------------------------------|
| 7.5 mil (.191 mm) | 10" to 35" (254 to 889 mm) |
| 15 mil (.381 mm) | 10" to 74" (254 to 1880 mm) |
| 20 mil (.508 mm) | 10" to 90" (254 to 2286 mm) |
| 30 mil (.762 mm) | 10" to 100" (254 to 2540 mm) |
| 40 mil (1.02 mm) | 10" to 110" (254 to 2794 mm) |
| 50 mil (1.27 mm) | 10" to 120" (254 to 3048 mm) |



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

MS-890 Industrial Scanners

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-0890-0001G | Long Range, Stand Alone Version, RS-232/485, 10-28 VDC | €4,194 | P |
| FIS-0890-0002G | Long Range, Wiring Box Ready, RS-232/485, 10-28 VDC | €4,194 | P |

Wiring Box

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 99-420003-04 | IB-890 Wiring Box (use w/FIS-0890-0002G) | €330 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM | €52 | A |
| 12-000130-01 | CGB's (sealed strain relief wire clamp) * | €15 | A |

1 Included with 99-420003-04

MS-890 Industrial Barcode Reader Continued

Accessories

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 and MS-890 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | €52 | A |
| 61-000122-01 | Cable, To MS-Connect 210, Host RS-422/485 for Multidrop, 6 ft | €110 | A |
| 61-000123-01 | Cable, To MS-Connect 210, Host/AUX RS-232, for Daisy Chain 210 to 210, 6 ft | €110 | A |
| FIS-0001-0030G | IB-3PC Keyboard Wedge/Interface Box | €110 | A |
| 98-000039-02 | Kit, IB-152, DB25 Plug Terminal Block, DB25 Gender Changer | €138 | A |
| 98-000040-02 | IB-150 Interface and reader cable, 6 ft | €193 | A |
| 98-000051-01 | USB Conversion kit, IC-3USB | €83 | A |
| 61-000034-02 | Cable, Comm/Serial , 25pin Socket to 9pin Socket, 6 ft | €33 | A |
| 61-100029-03 | Cable, Connects IB-150 to IB-150, 1 ft , Daisy Chain | €33 | A |
| 61-000010-02 | Cable, Communication, DB-9 Socket to DB-9 Socket, 6 ft | €33 | A |
| 98-000011-01 | Glass Window Replacement Kit | €88 | A |
| 98-000011-02 | Plastic Window Replacement Kit | €143 | A |
| 61-000154-01 | Daisy Chain/Comm Adapter | €83 | A |
| 98-000090-03* | Demo Kit, MS-890 | €595 | * |

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

Power Supply

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA /Euro Plug | €138 | A |

Prices and Specifications Subject to Change

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Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000017-01 | Mounting Arm/Adapter Kit, IB-890/FIS-0880-0002, 6 inch | €99 | A |
| 98-000018-01 | Mounting Arm/Adapter kit, MS-890, 6 inch | €99 | A |
| 98-000046-01 | Kit, Base Plate | €44 | A |
| 98-200037-01 | Standard Flat Mounting Plate Kit, MS-890, Custom Surfaces | €44 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw terminal and field wireable) (for self wiring) | €33 | A |
| 20-610020-01 | Power Connector, 3-pin Socket (screw terminal and field wireable) (for self wiring) | €33 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 99-000004-01 | Package Detector, Standard Diffuse, 120 inch Range, 4-pin Plug | €248 | A |
| 99-000004-02 | Package Detector, Standard Diffuse, 120 inch Range, Unterminated | €248 | A |
| 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | €193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | €193 | A |

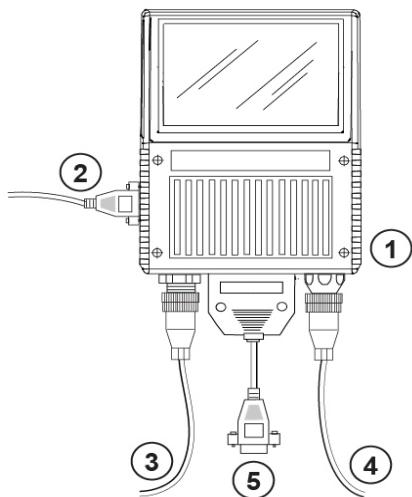
Software / Manuals

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software | €30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | €30 | A |

Tech Reference MS-890

Stand Alone

This is the basic setup for a single MS-890.



System Matrix

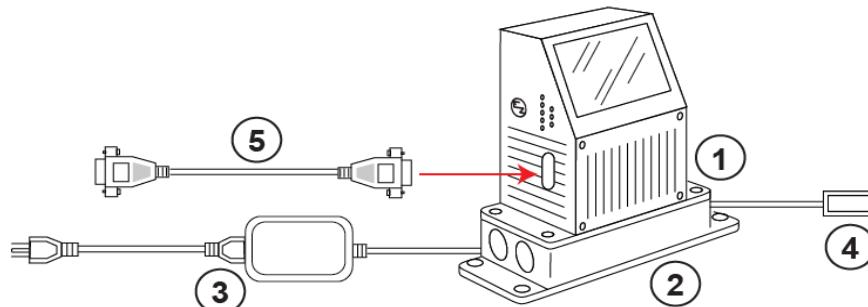
| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0890-0001G | Scanner, Industrial, Long Range | Varies |
| 2 | 61-000010-02 | Serial, 9-pin, D-Sub, Socket to 9-pin, D-Sub, Socket, 6 ft | €33 |
| 3 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA /Euro Plug | €138 |
| 4 | 99-000004-01 | Package Detector, Standard Diffuse, 120 inch Range, 4-pin Plug | €248 |
| 5 | 61-000034-02 | Cable, 25 Pin D-sub, Socket to 9 Pin D-sub, Socket, 6 ft | €33 |
| Mounting Arm Kit | 98-000018-01 | Mounting Arm/Adapter Kit, MS-890 | €99 |
| Mounting Plate | 98-000046-01 | Mounting Stand Base Plate | €44 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

Tech Reference MS-890

Stand Alone with Wiring Box

This is the basic setup for a single MS-890 with IB-890 Wiring Box.



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0890-0002G | Scanner, Industrial, Wiring Box-Ready | Varies |
| 2 | 99-420003-04 | Wiring Box Base, IB-890/FIS-0890-0002 | 330 |
| 3*** | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA /Euro Plug | 138 |
| 4 | 99-000004-02 | Package Detector, Standard Diffuse, 120 inch Range, Unterminated | 248 |
| 5 | 61-000010-02 | Serial, 9 pin, D-Sub, Socket to 9 pin, D-Sub, Socket | 33 |
| Mounting Arm/Adapter Kit | 98-000017-01 | 6 inch Adjustable Mounting Arm Kit, IB-890/FIS-0880-0002 | 99 |
| Mounting Plate | 98-000046-01 | Mounting Stand Base Plate | €44 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

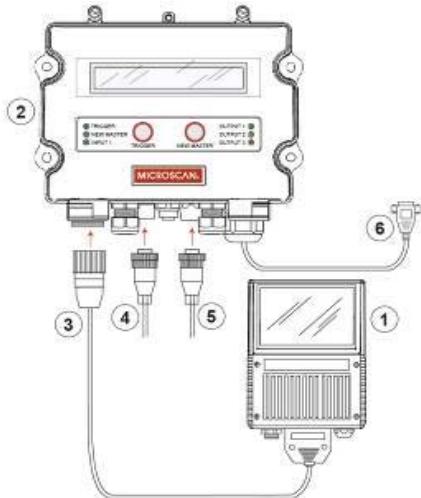
* 1 free per order.

*** Remove connectors before installation.

Tech Reference MS-890

Stand Alone with MS-Connect 210

This is the basic setup for a single MS-890 and MS-Connect 210.



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|-----------------|---|------------|
| 1 | FIS-0890-0001G | Scanner, Industrial, Long Range | Varies |
| 2 | FIS-0210-000XG* | Connectivity Box | Varies |
| | 61-000122-01† | Cable, MS-890 to MS-Connect 210, Host RS-422/485, 6ft | €110 |
| 3 | 61-000123-01† | Cable, To MS-Connect 210, Host/AUX RS-232, 6 ft | €110 |
| 4 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 5 | 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | €193 |
| 6 | 61-000105-01** | Pre-stripped RS-232, 9-pin host cable | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software*** | €30 |

* See MS-Connect Series section for a complete listing of Accessories

** 1 free host cable is included with each MS-Connect 210

*** 1 free per order.

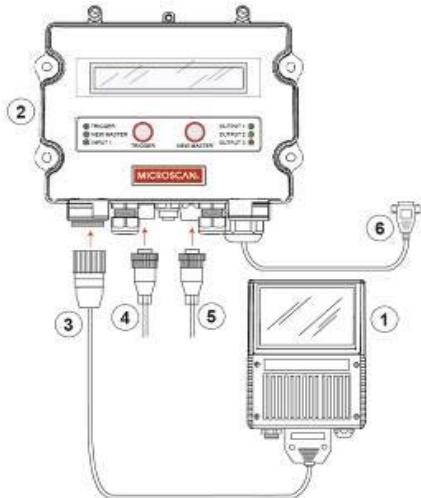
† Choose one cable.

Tech Reference MS-890

Stand Alone

with MS-Connect 210 with Ethernet

This is the basic setup for a single MS-890 and MS-Connect 210 with Ethernet



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|---------------------------|---|------------|
| 1 | FIS-0890-0001G | Scanner, Industrial, Long Range | Varies |
| 2 | FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | € 650 |
| | 61-000122-01 [†] | Cable, MS-890 to MS-Connect 210, Host RS-422/485, 6ft | € 110 |
| 3 | 61-000123-01 [†] | Cable, To MS-Connect 210, Host/AUX RS-232, 6 ft | € 110 |
| 4 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | € 138 |
| 5 | 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | € 193 |
| 6 | 61-000105-01** | Pre-stripped RS-232, 9-pin host cable | € 33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software*** | € 30 |

* See MS-Connect Series section for a complete listing of Accessories

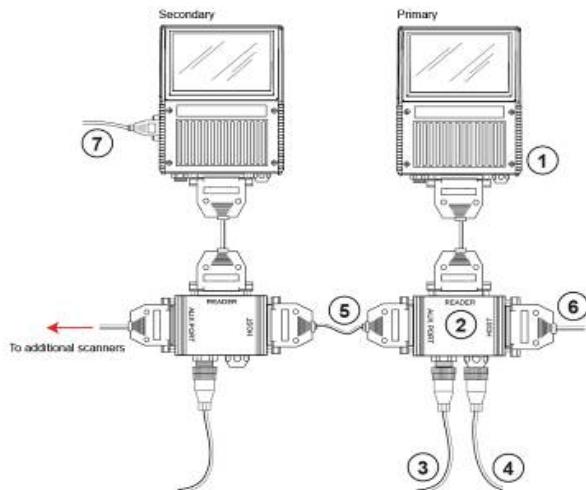
** 1 free host cable is included with each MS-Connect 210

*** 1 free per order.

† Choose one cable.

Daisy Chain

A primary scanner is linked directly to the host. Secondary scanners (up to 9) are linked in tandem. Data is sent from the primary scanner directly to the host.



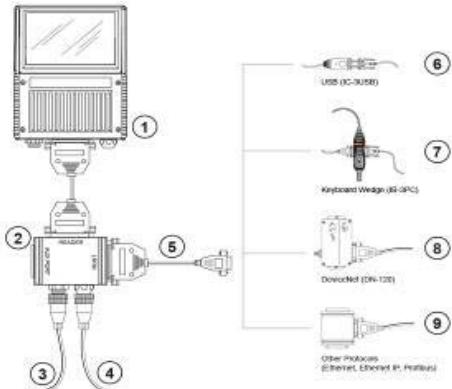
System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|-----------------|--|------------|
| 1 | FIS-0890-0001G | Scanner, Industrial, Long Range | Varies |
| 2 | 98-000040-02 | IB-150 Interface and Reader Cable, 6 ft | €193 |
| 3 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| 4 | 99-000004-01 | Package Detector, Std. Diffuse, 120 inch Range, 4-pin Plug | €248 |
| 5 | 61-100029-03 | Cable, Connects IB-150 to IB-150, 1 ft (.3 meters) | €33 |
| 6 | 61-000034-02*** | Cable, 25 pin Socket to 9 pin Socket, 6 ft | €33 |
| 7 | 61-000010-02 | Serial, 9 pin, D-Sub, Socket to 9 pin, D-Sub, Socket | €33 |
| Mounting Arm Kit | 98-000018-01 | Mounting Arm/Adapter Kit, MS-890 | €99 |
| Mounting Plate | 98-000046-01 | Mounting Stand Base Plate | €44 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

*** If using another communications cable, make sure it does not have RTS/CTS connected to the host.

Optional Interface Protocols



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|---------------------------|---|------------|
| 1 | FIS-0890-0001G | Scanner, Industrial, Long Range | Varies |
| 2 | 98-000040-02 | IB-150 Interface and Reader Cable, 6 ft | €193 |
| 3 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA /Euro Plug | €138 |
| 4 | 99-000004-01 | Package Detector, Standard Diffuse, 120 inch Range, 4-pin Plug | €248 |
| 5 | 61-000034-02 | Cable, 25 Pin D-sub, Socket to 9 Pin D-sub, Socket, 6 ft | €33 |
| 6*** | 98-000051-01 | USB Conversion Kit | €83 |
| 7**** | FIS-0001-0030G | Keyboard Wedge PC Interface | €110 |
| 8 | 20-500013-01 ¹ | DeviceNet Protocol Box | €655 |
| 9 | Third Party | Ask your Microscan sales representative which solution is appropriate for your application. | Varies |
| Mounting Arm Kit | 98-000018-01 | Mounting Arm/Adapter Kit, MS-890 | €99 |
| Mounting Plate | 98-000046-01 | Mounting Stand Base Plate | €44 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

*1 free per order.

**Refer to page 8 for a complete listing of support agreement options.

*** Pin Converter is not required for this configuration.

****Set the IB-3PC to **position 2** in this configuration.

¹ Part is not RoHS compliant.

Auto ID 2D Readers and Verifiers

MS-2D Scan Engine



MS-2D Scan Engine with Bracket
and integrated Decode Board



MS-2D Scan Engine with Tabs
and separate Decode Board

| | | |
|----------------------|--------------|----------------|
| 3 mil Code 39 | 3.7" (95 mm) | 5.9" (150 mm) |
| 7.5 mil Code 39 | 2.2" (55 mm) | 8.0" (205 mm) |
| 13 mil UPC | 2.0" (50 mm) | 10.8" (275 mm) |
| 4.2 mil Data Matrix | 3.7" (95 mm) | 4.5" (115 mm) |
| 5 mil Data Matrix | 3.7" (95 mm) | 5.1" (130 mm) |
| 6.3 mil Data Matrix | 3.1" (80 mm) | 6.3" (160 mm) |
| 10 mil Data Matrix | 1.6" (40 mm) | 7.7" (195 mm) |
| 20.8 mil Data Matrix | 1.6" (40 mm) | 9.4" (240 mm) |

Note: working ranges are a combination of both the wide and high density fields.

****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

MS-2D Scan Engine

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-MS2D-0001G | MS-2D ENGINE, USB, TABS, 12 IN RIBBON, STD FOCUS | €250 | A |
| FIS-MS2D-0002G | MS-2D ENGINE, USB, BRACKET, 12 IN RIBBON, STD FOCUS | €263 | A |
| FIS-MS2D-0003G | MS-2D ENGINE, SERIAL, TABS, 12 IN RIBBON, STD FOCUS | €250 | A |
| FIS-MS2D-0004G | MS-2D ENGINE, SERIAL, BRACKET, 12 IN RIBBON, STD FOCUS | €263 | A |

Note: MS-2D Engines must be ordered in multiples of 10 units.

Accessories

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 61-000209-01 | RIBBON CABLE, ENGINE to HOST, MS-2D, 2 IN | €7 | A |
| 61-000209-02 | RIBBON CABLE, ENGINE TO HOST, MS-2D, 6 IN | €9 | A |
| 61-000209-03 | RIBBON CABLE, ENGINE TO HOST, MS-2D, 12 IN | €10 | A |
| 98-000224-01 | DEMO KIT, MS-2D, USB ENG, DECODE, TABS, INTFC BD | €499 | A |
| 98-000224-02 | DEMO KIT, MS-2D, SERIAL ENG, DECODE, TABS, INTFC BD | €499 | A |

Note: MS-2D Ribbon Cables must be ordered in multiples of 10 units.

Software / Manuals

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software | €30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | €30 | A |

Auto ID 2D Readers and Verifiers

MS-4 Compact 2D Imager

| Narrow-bar-width | | Field of View (maximum) | Read Range |
|---------------------|--------------------|----------------------------|-----------------------------------|
| 1D | 2D | Standard Density | |
| 0.0075 " (0.19 mm) | 0.010 " (0.25 mm) | 2.4 " (61 mm) | 2.0 " to 4.0 " (51 mm to 102 mm) |
| 0.010 " (0.25 mm) | 0.015 " (0.38 mm) | 2.6 " (66 mm) | 1.7 " to 4.7 " (43 mm to 119 mm) |
| 0.015 " (0.38 mm) | 0.020 " (0.51 mm) | 2.8 " (71 mm) | 1.4 " to 5.2 " (36 mm to 132 mm) |
| Low Density | | | |
| 0.010 " (0.25 mm) | 0.015 " (0.38 mm) | 4.2 " (107 mm) | 3.5 " to 4.5 " (89 mm to 114 mm) |
| 0.015 " (0.38 mm) | 0.020 " (0.51 mm) | 4.5 " (114 mm) | 2.7 " to 5.0 " (69 mm to 127 mm) |
| 0.020 " (0.51 mm) | 0.030 " (0.76 mm) | 5.5 " (140 mm) | 2.0 " to 6.0 " (51 mm to 152 mm) |



Important Pricing Discount Note Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Imagers MS-4

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-0004-0001G | Imager, Standard Density, RS-232, 5VDC | €780 | P |
| FIS-0004-0002G | Imager, Low Density, RS-232, 5VDC | €780 | P |
| FIS-0004-0003G | Imager, Standard Density, USB* | €780 | P |
| FIS-0004-0004G | Imager, Low Density, USB* | €780 | P |

* Cable terminated with USB type A connector.

Accessories

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 and MS-890 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | €52 | A |
| 61-000127-02 | Reader Cable MS-4 to MS-Connect 210, 6 ft | €110 | A |
| FIS-0001-0030G | IB-3PC Keyboard Wedge/Interface Box | €110 | A |
| FIS-0001-0035G | IC-332, Connects MS-4 to IB-131 | €165 | A |
| 99-000018-01 | IB-131, Interface Box | €165 | A |
| 98-000039-02 | Kit, IB-152, DB25 Plug Terminal Block, DB25 Gender Changer * | €138 | A |
| 61-300026-03 | Cable, Communication, DB-25 Plug to DB-9 Socket, 6 ft | €33 | A |
| 61-100029-03 | Cable, IB-131 Daisy Chain, 1 ft | €33 | A |
| 61-000010-02 | Cable, Communication, DB-9 Socket to DB-9 Socket, 6 ft | €33 | A |
| 20-500013-01 | DeviceNet Protocol Box* | €655 | A |
| 61-000011-02 | Cable, MS-820 to IB-131 (also use for MS-3, 4, 9, 710 and MINI Extension) | €33 | A |

*Part is not RoHS compliant.

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 97-000002-01 | Power Supply, 90-264 VAC,+5VDC, USA/Euro Plug (use with IB-3PC) | €83 | A |
| 97-100004-15 | Power Supply, 90-264 VAC,+24VDC, USA /Euro Plug (Only use with IC-332) | €138 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000048-01 | Mounting Arm/Adapter Kit, 4 inch, MS-4 | €77 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, MS-4 | €33 | A |
| 98-000053-01 | Extension Kit, 4 inch, MS-4 | €39 | A |
| 98-000053-02 | Extension Kit, 3 inch, MS-4 | €39 | A |
| 98-000060-01 | Kit, Bracket, Side Mount, MS-4 | €22 | A |
| 98-000059-01 | Kit, Bracket, Angle Mount, MS-4 | €22 | A |
| 98-000057-01 | Kit, Bracket, Through Hole Mount, MS-4 | €22 | A |
| 98-000088-01 | Kit, Right Angle Mirror, MS-4 | €55 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw terminal and field wireable) | €33 | A |
| 20-610020-01 | Power Connector, 3-pin Socket (screw terminal and field wireable) | €33 | A |

MS-4 Compact 2D Imager Accessories Continued

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--------------------------------------|------------|------|
| 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | €193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | €193 | A |

Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | €30 | A |
| 37-000003-01 | EZ Trax Software** | €500 | A |

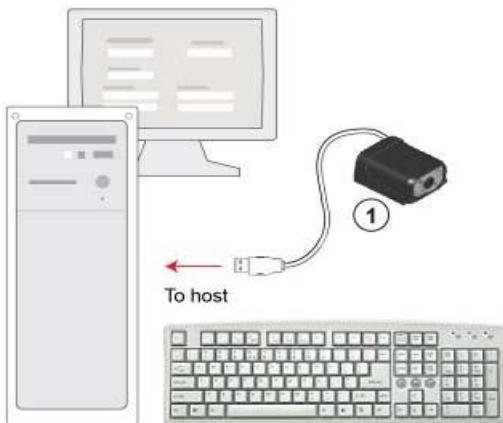
* 1 free per order.

** EZ Trax is an accessory.

Tech Reference MS-4

USB

This is the basic setup for a single USB MS-4.



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-0004-XXXXG | Imager Model | Varies |
| Mounting Arm/Adapter Kit | 98-000048-01 | 4" (102mm) Mounting Kit | €77 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| EZ Trax Software | 37-000003-01 | Image Capture and Storage Software | €500 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 |

* 1 free per order.

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Quadrus MINI Family of Imagers



| 1D | 2D | Field of View (maximum) | Read Range (using auto-focus) |
|---------------------------|---------------------|-------------------------|------------------------------------|
| Ultra High Density | | | |
| 0.0033 " (0.08 mm) | 0.005 " (0.13 mm) | 2.2 " (56 mm) | 2.0 " to 4.4 " (51 mm to 112 mm) |
| 0.0075 " (0.19 mm) | 0.010 " (0.25 mm) | 3.6 " (91 mm) | 1.8 " to 6.7 " (46 mm to 170 mm) |
| 0.015 " (0.38 mm) | 0.020 " (0.51 mm) | 4.0 " (102 mm) | 1.9 " to 7.7 " (48 mm to 196 mm) |
| High Density | | | |
| 0.005 " (0.13 mm) | 0.0075 " (0.19 mm) | 3.1 " (79 mm) | 1.5 " to 6.0 " (38 mm to 152 mm) |
| 0.0075 " (0.19 mm) | 0.010 " (0.25 mm) | 4.2 " (107 mm) | 1.2 " to 7.0 " (30 mm to 178 mm) |
| 0.015 " (0.38 mm) | 0.020 " (0.51 mm) | 5.6 " (142 mm) | 0.9 " to 9.0 " (23 mm to 229 mm) |
| Standard Density | | | |
| 0.005 " (0.13 mm) | 0.0075 " (0.19 mm) | 3.2 " (81 mm) | 1.8 " to 3.5 " (46 mm to 89 mm) |
| 0.0075 " (0.19 mm) | 0.010 " (0.25 mm) | 4.2 " (107 mm) | 1.6 " to 5.0 " (41 mm to 127 mm) |
| 0.010 " (0.25 mm) | 0.015 " (0.38 mm) | 6.8 " (173 mm) | 1.4 " to 7.5 " (36 mm to 191 mm) |
| 0.020 " (0.51 mm) | 0.030 " (0.76 mm) | 9.5 " (241 mm) | 1.0 " to 10.0 " (25 mm to 254 mm) |

Listed above is the read range chart for Quadrus MINI and MINI ESD Safe Imagers. See MINI 3 and Velocity section for additional specifications

****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Quadrus MINI Imagers

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6300-0001G | Megapixel Imager, Standard Density, Serial, 5VDC | €1,665 | P |
| FIS-6300-0002G | Megapixel Imager, High Density, Serial, 5VDC | €1,665 | P |
| FIS-6300-0003G | Megapixel Imager, Ultra High Density, Serial, 5VDC | €1,665 | P |
| FIS-6300-0013G | Megapixel Imager, Standard Density, USB+I/O,5VDC * | €1,750 | P |
| FIS-6300-0014G | Megapixel Imager, High Density, USB+I/O,5VDC * | €1,750 | P |
| FIS-6300-0015G | Megapixel Imager, Ultra High Density, USB+I/O,5VDC * | €1,750 | P |

* Includes required power supply.

Quadrus MINI ESD Safe



Performance specifications match Quadrus MINI

Quadrus MINI ESD Safe Imagers

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6300-1001G | Quadrus MINI, Standard Density, ESD Safe, RS-232/422/485, 5VDC | €2,295 | P |
| FIS-6300-1002G | Quadrus MINI, High Density, ESD Safe, RS-232/422/485, 5VDC | €2,295 | P |
| FIS-6300-1003G | Quadrus MINI, Ultra High Density, ESD Safe, RS-232/422/485, 5VDC | €2,295 | P |
| FIS-6300-1004G | Quadrus MINI, Standard Density, ESD Safe, USB, 5VDC* | €2,375 | P |
| FIS-6300-1005G | Quadrus MINI, High Density, ESD Safe, USB, 5VDC* | €2,375 | P |
| FIS-6300-1006G | Quadrus MINI, Ultra High Density, ESD Safe, USB, 5VDC* | €2,375 | P |

Prices and Specifications Subject to Change

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Quadrus MINI Velocity



| Narrow-bar-width | | Field of View (maximum) | Read Range (using autofocus) |
|---------------------------|-----------------|----------------------------|---------------------------------|
| 1D | 2D | | |
| Ultra High Density | | | |
| .0033" (.08 mm) | .005" (.13 mm) | 1.1" (29 mm) | 1.9 to 3.0" (48 mm to 76 mm) |
| .005" (.13 mm) | .075" (.19 mm) | 1.8" (45 mm) | 1.8 to 5.0" (46 mm to 127 mm) |
| .010" (.25 mm) | .15" (.38 mm) | 2.5" (64 mm) | 1.6 to 7.0" (41 mm to 178 mm) |
| Standard Density | | | |
| .005" (.13 mm) | .0075" (.19 mm) | 2.7" (69 mm) | 1.7 to 3.4" (43 mm to 86 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 3.7" (93 mm) | 1.6 to 5.0" (41 mm to 127 mm) |
| .010" (.25 mm) | .15" (.38 mm) | 4.7" (118 mm) | 1.4 to 8.0" (36 mm to 203 mm) |
| .020" (.51 mm) | .030" (.76 mm) | 5.3" (136 mm) | 1.3 to 9.3" (33 mm to 236 mm) |

Subject to change

Quadrus MINI Velocity Imagers

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6300-3001G | Quadrus MINI Velocity, Standard Density, Serial, 5VDC | €1,665 | P |
| FIS-6300-3002G | Quadrus MINI Velocity, Ultra High Density, Serial, 5VDC | €1,665 | P |
| FIS-6300-3009G | Quadrus MINI Velocity, Standard Density, USB+I/O, 5VDC * | €1,750 | P |
| FIS-6300-3010G | Quadrus MINI Velocity, Ultra High Density, USB+I/O, 5VDC * | €1,750 | P |

* Includes required power supply.

MINI Hawk 3MP



| Narrow-bar-width | | Field of View (maximum) | Read Range (using autofocus) |
|-------------------------|-----------------|----------------------------|-----------------------------------|
| 1D | 2D | | |
| Micro Density | | | |
| .0028" (.07 mm) | .0033" (.08 mm) | 1.2" (30.4 mm) | 1.9 to 2.0" (48.3 mm to 50.8 mm) |
| .0033" (.08 mm) | .005" (.13 mm) | 4" (101.6 mm) | 1.9 to 5.1" (48.3 mm to 129.5 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 4.5" (114.3 mm) | 1.7 to 5.6" (43.2 mm to 142.2 mm) |
| .015" (.38 mm) | .020" (.51 mm) | 5.0" (127 mm) | 1.7 to 6" (43.2 mm to 152.4 mm) |
| Standard Density | | | |
| .0033" (.08 mm) | .005" (.13 mm) | 3.2" (81.3 mm) | 1.9 to 3" (48 mm to 76.2 mm) |
| .005" (.13 mm) | .0075" (.19 mm) | 5.0" (127 mm) | 1.8 to 4.8" (46 mm to 121.9 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 6.2" (157.5 mm) | 1.6 to 6.5" (41 mm to 165.1 mm) |
| .010" (.25 mm) | .015" (.38 mm) | 8.5" (215.9 mm) | 1.4 to 8.5" (36 mm to 215.9 mm) |
| .020" (.51 mm) | .030" (.76 mm) | 9.5" (241 mm) | 1.0 to 10" (25 mm to 254 mm) |

MINI Hawk 3MP Imagers

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6300-2013G | MINI Hawk 3, Micro Density, Serial, 5VDC | €2,295 | P |
| FIS-6300-2014G | MINI Hawk 3, Standard Density, Serial, 5VDC | €2,295 | P |
| FIS-6300-2015G | MINI Hawk 3, Micro Density, USB + I/O, 5VDC | €2,375 | P |
| FIS-6300-2016G | MINI Hawk 3, Standard Density, USB + I/O, 5VDC | €2,375 | P |

* Includes required power supply.

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MINI Hawk High Resolution



| Narrow-bar-width | | Field of View (maximum) | Read Range (with autofocus) |
|---------------------------|-----------------|----------------------------|--------------------------------|
| 1D | 2D | | |
| Ultra High Density | | | |
| .0033" (.08 mm) | .005" (.13 mm) | 2.2" (56 mm) | 2.0 to 4.4" (51 mm to 112 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 3.6" (91 mm) | 1.9 to 6.7" (48 mm to 170 mm) |
| .015" (.38 mm) | .020" (.51 mm) | 4.0" (102 mm) | 1.9 to 7.7" (48 mm to 196 mm) |
| High Density | | | |
| .005" (.13 mm) | .0075" (.19 mm) | 3.1" (79 mm) | 1.5 to 6.0" (38 mm to 152 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 4.2" (107 mm) | 1.2 to 8.0" (30 mm to 203 mm) |
| .015" (.38 mm) | .020" (.51 mm) | 5.6" (142 mm) | 0.9 to 10.5" (23 mm to 267 mm) |
| Standard Density | | | |
| .005" (.13 mm) | .0075" (.19 mm) | 3.2" (81 mm) | 1.8 to 3.5" (46 mm to 89 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 4.2" (107 mm) | 1.6 to 5.0" (41 mm to 127 mm) |
| .010" (.25 mm) | .015" (.38 mm) | 6.8" (173 mm) | 1.4 to 7.5" (36 mm to 191 mm) |
| .020" (.51 mm) | .030" (.76 mm) | 9.5" (241 mm) | 1.0 to 11.0" (25 mm to 279 mm) |

MINI Hawk High Resolution

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6300-4007G | MINI Hawk High Res, Standard Density, Serial, 5VDC | € 1,730 | P |
| FIS-6300-4008G | MINI Hawk High Res, High Density, Serial, 5VDC | € 1,730 | P |
| FIS-6300-4009G | MINI Hawk High Res, Ultra High Density, Serial, 5VDC | € 1,730 | P |
| FIS-6300-4010G | MINI Hawk High Res, Standard Density, USB+I/O, 5VDC* | € 1,810 | P |
| FIS-6300-4011G | MINI Hawk High Res, High Density, USB+I/O, 5VDC* | € 1,810 | P |
| FIS-6300-4012G | MINI Hawk High Res, Ultra High Density, USB+I/O, 5VDC* | € 1,810 | P |

MINI Hawk High Speed



| Narrow-bar-width | | Field of View (maximum) | Read Range (with autofocus) |
|---------------------------|-----------------|----------------------------|--------------------------------|
| 1D | 2D | | |
| Ultra-High Density | | | |
| .0033" (.08 mm) | .005" (.13 mm) | 1.6" (40 mm) | 1.9 to 4.4" (47 mm to 110 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 2.5" (64 mm) | 1.7 to 6.7" (42 mm to 170 mm) |
| .015" (.38 mm) | .020" (.51 mm) | 2.9" (74 mm) | 1.5 to 8.0" (38 mm to 203 mm) |
| Standard Density | | | |
| .005" (.13 mm) | .0075" (.19 mm) | 2.8" (72 mm) | 1.6 to 4.4" (41 mm to 112 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 3.8" (97 mm) | 1.5 to 6.2" (38 mm to 157 mm) |
| .010" (.25 mm) | .015" (.38 mm) | 4.7" (118 mm) | 1.4 to 7.6" (36 mm to 193 mm) |
| .020" (.51 mm) | .030" (.76 mm) | 6.2" (158 mm) | 1.3 to 10.0" (33 mm to 254 mm) |

MINI Hawk High Speed Imagers

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6300-5005G | MINI Hawk High Speed, Standard Density, Serial, 5VDC | € 1,730 | P |
| FIS-6300-5006G | MINI Hawk High Speed, Ultra High Density, Serial, 5VDC | € 1,730 | P |
| FIS-6300-5007G | MINI Hawk High Speed, Standard Density, USB+I/O, 5VDC* | € 1,810 | P |
| FIS-6300-5008G | MINI Hawk High Speed, Ultra High Density, USB+I/O, 5VDC* | € 1,810 | P |

* Includes required power supply.

Note:

Quadrus MINI Tech References are equal to MS-3 Laser with the exception of USB

Visit the MS-3 Laser section for configuration references

Prices and Specifications Subject to Change

Tel: 425.226.5700
Fax: 425.226.8250

€100 Minimum Order
07-0000001-02 Rev AG
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Quadrus MINI Accessories

Accessories

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 and MS-890 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | €52 | A |
| 61-000127-02 | Cable, Quadrus MINI to MS-Connect 210, 6 ft | €110 | A |
| FIS-0001-0035G | IC-332, Connects MINI to IB-131 | €165 | A |
| 99-000018-01 | IB-131, Interface Box | €165 | A |
| 98-000039-02 | Kit, IB-152, DB25 Plug Terminal Block, DB25 Gender Changer ^A | €138 | A |
| 61-300026-03 | Cable, Communication, DB-25 Plug to DB-9 Socket, 6 ft | €33 | A |
| 61-100029-03 | Cable, IB-131 Daisy Chain, 1 ft | €33 | A |
| 20-500013-01 | DeviceNet Protocol Box ^{* 1} | €655 | A |
| 61-000011-02 | Cable, MS-820 to IB-131 (also use for MS-3, 4, 9, 710 and MINI Extension) | €33 | A |
| 61-000151-01 | Cable, MINI USB, I/O Breakout, Flying Leads, 3ft | €33 | A |
| 98-000098-01 | Kit, Quadrus MINI Diffuser | €55 | A |
| 98-000086-02* | Demo Kit, Quadrus MINI | €655 | * |

^A Works with IB-131. ¹ Part is not RoHS compliant.

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

Power Supply

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 97-100004-15 | Power Supply, 90-264 VAC,+24VDC, USA /Euro Plug (Only use with IC-332) | €138 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-000048-01 | Mounting Arm/Adapter Kit, 4 inch, Quadrus MINI | €77 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, Quadrus MINI | €33 | A |
| 98-000053-01 | Extension Kit, 4 inch, Quadrus MINI | €39 | A |
| 98-000053-02 | Extension Kit, 3 inch, Quadrus MINI | €39 | A |
| 98-000060-01 | Kit, Bracket, Side Mount, Quadrus MINI | €22 | A |
| 98-000059-01 | Kit, Bracket, Angle Mount, Quadrus MINI | €22 | A |
| 98-000057-01 | Kit, Bracket, Through Hole Mount, Quadrus MINI | €22 | A |
| 98-000088-01 | Kit, Right Angle Mirror | €55 | A |
| 20-610024-01 | Trigger Connector for IB-131, 4-pin Plug | €33 | A |
| 20-610020-01 | Power Connector for IB-131, 3-pin Socket | €33 | A |
| 99-000055-01 | Accessory, Bracket, DOAL 50 to MINI | €209 | A |
| 99-000057-01 | Accessory, Bracket, DOAL 75 to MINI | €209 | A |
| 99-000059-01 | Accessory, Bracket, DOAL 100 to MINI | €209 | A |
| 99-000053-01 | Accessory, Bracket, R-60/70 to MINI | €116 | A |
| 99-000054-01 | Accessory, Bracket, R-100 to MINI | €116 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 99-000017-01 | Photo Sensor, Visible, NPN, Dark On | €193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, Light On | €193 | A |
| 99-000019-01 | Photo Sensor, Visible, NPN, Light On, 5VDC | €193 | A |

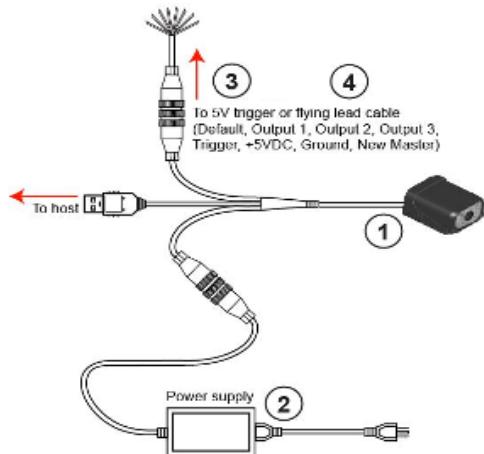
Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software | €30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | €30 | A |
| 37-000003-01 | EZ Trax Software | €500 | A |

Tech Reference *Quadrus MINI*

USB

This is the basic setup for a single USB (Second Generation) *Quadrus MINI*.



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|--|------------|
| 1 | FIS-6300-XXXXG | MINI Imager, USB | Varies |
| 2 | 97-000002-02 | Power Supply , 90-264 VAC, +5VDC * | €83 |
| 3 | 99-000019-01 | Photo Sensor, Visible, NPN, Light On, 5VDC | €193 |
| 4 | 61-000151-01 | Cable, MINI USB, I/O Breakout, Flying Leads, 3ft | €33 |
| Mounting Arm/Adapter Kit | 98-000048-01 | 4" (102mm) Mounting Kit | €77 |
| Mounting Plate | 98-000054-01 | Mounting Stand Base Plate, Small | €33 |
| EZ Trax Software | 37-000003-01 | Image Capture and Storage Software | €500 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |
| Replacement Power Supply | 97-000002-02 | Power Supply , 90-264 VAC, +5VDC * | €83 |

*Required power supply included with each reader.

** 1 free per order.

MICROSCAN

QX Hawk High Performance, Flexible, Industrial Imager for Auto ID



Compact Size
Fast and Powerful
X-Mode Algorithms
Liquid Lens Imaging System
QX Platform
Integrated Ethernet
IP65/67

CMOS MODULAR ZOOM OPTICS: Inches (mm)

| Angle | Narrow-bar-width | | Read Range (using autofocus) | Field of View | | Depth of Field | |
|-------|------------------|--------------|------------------------------|---------------|-----------------|----------------|--------------|
| | 1D | 2D | | Inside Edge | At Outside Edge | Inside Edge | Outside Edge |
| 15° | 0.0033 (0.08) | 0.005 (0.13) | 1 to 6 (25 to 152) | 0.53 (13) | 1.8 (46) | 0.2 (5) | 0.8 (20) |
| | 0.0075 (0.19) | 0.010 (0.25) | 1 to 14 (25 to 356) | 0.53 (13) | 3.5 (89) | 0.8 (20) | 2.5 (64) |
| | 0.0150 (0.38) | 0.020 (0.51) | 2 to 29 (51 to 737) | 0.53 (13) | 7.5 (191) | 1.5 (38) | 9 (229) |
| | 0.0350 (0.89) | 0.050 (1.27) | 3 to 60 (76 to 1524) | 1.03 (26) | 15.5 (394) | 7 (178) | 50 (1270) |
| | 0.0660 (1.67) | 0.100 (2.54) | 6 to 96 (152 to 2438) | 1.08 (27) | 25 (635) | 9 (229) | 65 (1651) |
| 30° | 0.0033 (0.08) | 0.005 (0.13) | 1 to 3 (25 to 76) | 0.83 (21) | 1.8 (46) | 0.4 (10) | 0.8 (20) |
| | 0.0075 (0.19) | 0.010 (0.25) | 1 to 6.5 (25 to 165) | 0.83 (21) | 3.5 (89) | 0.8 (20) | 1.8 (46) |
| | 0.0150 (0.38) | 0.020 (0.51) | 1 to 16 (25 to 406) | 0.83 (21) | 8.3 (211) | 2 (51) | 8.5 (216) |
| | 0.0350 (0.89) | 0.050 (1.27) | 2 to 32 (51 to 813) | 1.3 (33) | 16.4 (417) | 3 (76) | 21.5 (546) |
| 45° | 0.0075 (0.19) | 0.010 (0.25) | 1 to 5 (25 to 127) | 1.3 (33) | 4.1 (104) | 1.5 (38) | 2 (51) |
| | 0.0150 (0.38) | 0.020 (0.51) | 1 to 9.5 (25 to 241) | 1.3 (33) | 7.5 (191) | 2 (51) | 6 (152) |
| | 0.0350 (0.89) | 0.050 (1.27) | 1 to 23.5 (25 to 597) | 1.3 (33) | 18.3 (465) | 3.8 (97) | 19 (483) |

NOTE: Read ranges are for specific element sizes as listed in the tables. Read ranges can extend to an infinite distance beyond the tables by increasing element sizes.

CCD MODULAR ZOOM OPTICS: Inches (mm)

| Angle | Narrow-bar-width | | Read Range (using autofocus) | Field of View | | Depth of Field | |
|-------|------------------|---------------|------------------------------|---------------|--------------|----------------|--------------|
| | 1D | 2D | | Inside Edge | Outside Edge | Inside Edge | Outside Edge |
| 15° | 0.002 (0.05) | 0.0033 (0.08) | 1 to 6 (25 to 152) | 0.53 (13) | 1.8 (46) | 0.2 (5) | 0.8 (20) |
| | 0.005 (0.13) | 0.0075 (0.19) | 1 to 14 (25 to 356) | 0.53 (13) | 3.5 (89) | 0.8 (20) | 2.5 (64) |
| | 0.010 (0.25) | 0.0150 (0.38) | 2 to 29 (51 to 737) | 0.53 (13) | 7.5 (191) | 1.5 (38) | 9 (229) |
| | 0.020 (0.51) | 0.0300 (0.76) | 3 to 60 (76 to 1524) | 1.03 (26) | 15.5 (394) | 7 (178) | 50 (1270) |
| | 0.040 (1.02) | 0.0600 (1.52) | 6 to 96 (152 to 2438) | 1.08 (27) | 25 (635) | 9 (229) | 65 (1651) |
| 30° | 0.002 (0.05) | 0.0033 (0.08) | 1 to 3 (25 to 76) | 0.83 (21) | 1.8 (46) | 0.4 (10) | 0.8 (20) |
| | 0.005 (0.13) | 0.0075 (0.19) | 1 to 6.5 (25 to 165) | 0.83 (21) | 3.5 (89) | 0.8 (20) | 1.8 (46) |
| | 0.010 (0.25) | 0.0150 (0.38) | 1 to 16 (25 to 406) | 0.83 (21) | 8.3 (211) | 2 (51) | 8.5 (216) |
| | 0.020 (0.51) | 0.0300 (0.76) | 2 to 32 (51 to 813) | 1.3 (33) | 16.4 (417) | 3 (76) | 21.5 (546) |
| 45° | 0.005 (0.13) | 0.0075 (0.19) | 1 to 5 (25 to 127) | 1.3 (33) | 4.1 (104) | 1.5 (38) | 2 (51) |
| | 0.010 (0.25) | 0.0150 (0.38) | 1 to 9.5 (25 to 241) | 1.3 (33) | 7.5 (191) | 2 (51) | 6 (152) |
| | 0.020 (0.51) | 0.0300 (0.76) | 1 to 23.5 (25 to 597) | 1.3 (33) | 18.3 (465) | 3.8 (97) | 19 (483) |

NOTE: Read ranges are for specific element sizes as listed in the tables. Read ranges can extend to an infinite distance beyond the tables by increasing element sizes.

****Important Pricing Discount Note** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.**

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

QX Hawk CMOS Readers

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-6801-0110G | QX Hawk, Industrial Imager, CMOS, 15 Degree Optic, Serial | €2,223 | P |
| FIS-6801-1110G | QX Hawk, Industrial Imager, CMOS, 15 Degree Optic, Ethernet | €2,223 | P |
| FIS-6801-0210G | QX Hawk, Industrial Imager, CMOS, 30 Degree Optic, Serial | €2,223 | P |
| FIS-6801-1210G | QX Hawk, Industrial Imager, CMOS, 30 Degree Optic, Ethernet | €2,223 | P |
| FIS-6801-0310G | QX Hawk, Industrial Imager, CMOS, 45 Degree Optic, Serial | €2,223 | P |
| FIS-6801-1310G | QX Hawk, Industrial Imager, CMOS, 45 Degree Optic, Ethernet | €2,223 | P |
| FIS-6801-0010G | QX Hawk, Industrial Imager, CMOS, C-Mount Optic, Serial | €2,140 | P |
| FIS-6801-1010G | QX Hawk, Industrial Imager, CMOS, C-Mount Optic, Ethernet | €2,140 | P |

QX Hawk CCD Readers

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6801-0100G | QX Hawk, Industrial Imager, CCD, 15 Degree Optic, Serial | €2,473 | P |
| FIS-6801-1100G | QX Hawk, Industrial Imager, CCD, 15 Degree Optic, Ethernet | €2,473 | P |
| FIS-6801-0200G | QX Hawk, Industrial Imager, CCD, 30 Degree Optic, Serial | €2,473 | P |
| FIS-6801-1200G | QX Hawk, Industrial Imager, CCD, 30 Degree Optic, Ethernet | €2,473 | P |
| FIS-6801-0300G | QX Hawk, Industrial Imager, CCD, 45 Degree Optic, Serial | €2,473 | P |
| FIS-6801-1300G | QX Hawk, Industrial Imager, CCD, 45 Degree Optic, Ethernet | €2,473 | P |
| FIS-6801-0000G | QX Hawk, Industrial Imager, CCD, C-Mount Optic, Serial | €2,390 | P |
| FIS-6801-1000G | QX Hawk, Industrial Imager, CCD, C-Mount Optic, Ethernet | €2,390 | P |

Note CMOS (WVGA) - 752 x 480 pixels, CCD (SXGA) 1280 x 960 pixels

Prices and Specifications Subject to Change

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QX Hawk Accessories

| Accessories | | List Price | Type |
|--------------|---|------------|------|
| Part Number | Description | | |
| 98-000143-01 | Adapter plate kit, QX Hawk to Quadrus EZ, MS-9 or HE1500 mounting | €55 | A |
| 98-000144-01 | Right angle mirror kit, QX Hawk | €85 | A |
| 98-000146-01 | Window replacement, QX Hawk | €35 | A |
| 98-000147-01 | 15° Lens kit, QX Hawk | €135 | A |
| 98-000147-02 | 30° Lens kit, QX Hawk | €135 | A |
| 98-000147-03 | 45° Lens kit, QX Hawk | €135 | A |
| 98-000205-01 | Glass window kit with IR Filter | €135 | A |
| 98-000206-01 | Glass window kit | €70 | A |
| 98-000148-01 | L bracket kit, QX Series | €45 | A |
| 98-000149-01 | Demo kit, QX Hawk* | €425 | * |

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

QX Hawk C-Mount Accessories

| Accessories | | List Price | Type |
|--------------|---|------------|------|
| Part Number | Description | | |
| 98-92800471 | 5MM EXTENSION TUBE FOR C-MOUNT LENSES | €32 | A |
| 98-CO206 | LENS EXTENSION TUBE SET 0.5, 1, 5, 10, 20, 40MM | €114 | A |
| 98-92800571 | LENS 8MM F/1.4-16, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800572 | LENS 12MM F/1.8-16, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800573 | LENS 16MM F/1.4-16, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800574 | LENS 25MM F/1.6-16, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800575 | LENS 35MM F/2.1-22, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800576 | LENS 50MM F/2.8-22, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800577 | LENS 75MM F/3.9-32, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800311 | LENS,SKYLIGHT UV FILTER 25.5MM THREAD | €59 | A |
| 98-92800371 | POLARIZING FILTER 25.5MM THREAD | €79 | A |
| 98-000218-01 | LENS PROTECTION HOUSING, STANDARD LENGTH (UP TO 48MM) | €242 | A |
| 98-000226-01 | LENS PROTECTION HOUSING, LONG (UP TO 72MM) | €253 | A |

QX-1 and Cordsets

| QX-1 and Cordsets | | List Price | Type |
|-------------------|--|------------|------|
| Part Number | Description | | |
| 98-000103-02 | QX-1 Interface Device | €151 | A |
| 61-000148-01 | QX Cordset, Common, M12 12 Pin, Socket(Ultraock) to M12 12 Pin, Plug(Ultraock), 3M | €57 | A |
| 61-000148-02 | QX Cordset, Common, M12 12 Pin, Socket(Screw-on) to M12 12 Pin Plug(Screw-on), 3M | €53 | A |
| 61-000162-01 | QX Cordset, Common, M12 12 Pin, Socket(Ultraock) to M12 12 Pin, Plug(Ultraock), 1M | €53 | A |
| 61-000162-02 | QX Cordset, Common, M12 12 Pin, Socket(Screw-on) to M12 12 Pin Plug(Screw-on), 1M | €49 | A |
| 61-000153-01 | QX Cordset, Host, Serial, M12 12 Pin Socket(Ultraock) to DB9 Socket, 1M | €53 | A |
| 61-000153-02 | QX Cordset, Host, Serial M12 12 pin Socket(Screw-on) to DB9 Socket, 1M | €49 | A |
| 61-000164-01 | QX Cordset, Host, Serial, M12 12 pin Socket(Ultraock) to DB9 Socket, 3M | €57 | A |
| 61-000164-02 | QX Cordset, Host, Serial, M12 12 pin Socket(Screw-on) to DB9 Socket, 3M | €53 | A |
| 61-000152-01 | QX Cordset, Host, Serial M12 12 pin Plug(Ultraock) to DB9 Socket, 1M | €53 | A |
| 61-000152-02 | QX Cordset, Host, Serial, M12 12 pin Plug (Screw-down) to DB9 Socket, 1M | €49 | A |
| 61-000165-01 | QX Cordset, Host, Serial M12 12 pin Plug(Ultraock) to DB9 Socket, 3M | €57 | A |
| 61-000165-02 | QX Cordset, Host, Serial M12 12 pin Plug(Screw-on) to DB9 Socket, 3M | €57 | A |
| 61-000163-01 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Ultraock) to RJ45, 3M | €57 | A |
| 61-000163-02 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Screw-on) to RJ45, 3M | €57 | A |
| 61-000160-01 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Ultraock) to RJ45, 1M | €53 | A |
| 61-000160-02 | QX Cordset, Host, Ethernet, M12 8 pin Plug (Screw-down) to RJ45, 1M | €49 | A |
| 61-000161-01 | QX Cordset, M12 12 pin Plug(Ultraock) to MS-5100, 3M | €57 | A |
| 61-000161-02 | QX Cordset, M12 12 pin Plug(Screw-on) to MS-5100, 3M | €53 | A |
| 61-000172-01 | QX Cordset, M12 12 pin Plug(Ultraock) to M12 12 pin Socket(Ultraock) to DB25 Plug | €215 | A |
| 61-000158-03 | QX Cordset, M12 12 Pin Plug & Socket(Ultraock) to MS-Connect 210, RS-232, 2M | €176 | A |
| 61-000158-04 | QX Cordset, M12 12 Pin Plug & Socket(Ultraock) to MS-Connect 210, RS-422/485, 2M | €176 | A |
| 61-000166-01 | QX Cordset, M12 12 Pin Plug(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000166-02 | QX Cordset, M12 12 Pin Plug(Screw-on) to Flying Leads, 3M | €53 | A |
| 61-000167-01 | QX Cordset, M12 12 Pin Socket(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000167-02 | QX Cordset, M12 12 Pin Socket(Screw-on) to Flying Leads, 3M | €53 | A |
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |

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QX Hawk Accessories Continued

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 97-000003-01 | QX Power Supply, M12 12 pin Socket, 1.3m | €88 | A |
| 97-000003-02 | QX Power Supply, M12 12 pin Plug, 1.3m | €88 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 99-000020-02 | QX Photo sensor, M12 4pin Plug, NPN, Dark On, 2m | €193 | A |
| 99-000020-01 | QX Photo sensor, M12 4pin Plug, NPN, Dark Off, 2m | €193 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-500006-01 | Mounting Plate Kit, Flat, Custom Surfaces * | €22 | A |
| 61-000166-01 | QX Cordset, M12 12 Pin Plug(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000167-01 | QX Cordset, M12 12 Pin Socket(Ultraock) to Flying Leads, 3M | €57 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw terminal and field wireable) (for self wiring) | €33 | A |
| 98-000037-01 | Extension Kit, All Scanners, 6 inch | €61 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, Small | €33 | A |
| 98-000016-01 | Mounting Arm/Adapter Kit, MS-820/QX-830/QX-870, 6 inch | €99 | A |
| 99-000056-01 | Accessory, Bracket, DOAL 50 to QX Hawk | €209 | A |
| 99-000058-01 | Accessory, Bracket, DOAL 75 to QX Hawk | €209 | A |
| 99-000060-01 | Accessory, Bracket, DOAL 100 to QX Hawk | €209 | A |
| 99-000061-01 | Accessory, Bracket, DOAL to C-MOUNT QX Hawk | €165 | A |
| 99-000050-01 | Accessory, Bracket, R-100 TO QX Hawk | €116 | A |
| 99-000052-01 | Accessory, Bracket, R-60/70 TO QX Hawk | €116 | A |
| 99-000049-01 | Accessory, Bracket, R-100 TO C-MOUNT QX Hawk | €116 | A |
| 99-000051-01 | Accessory, Bracket, R-60/70 TO C-MOUNT QX Hawk | €116 | A |

* Though-hole mounting plate; not for use with mounting arm.

Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | €30 | A |

* 1 free per order.

Note:

QX Hawk Tech References are equal to QX-830
Visit the QX-830 section for configuration references

UID DPM and LDP Verifiers



| Type | UID Compliance Verifier, LDP |
|---|--|
| Image field | 25.4 mm x 19.05 mm (1.0" x 0.75") |
| Verifiable markings | ISO 16022, ISO 15415, AS9132 Laser, AS9132 Dot Peen, AS9132 Electro-Chemical Etch, MIL-STD-130M Enhanced ISO 15415, AIM DPM-1-2006 Quality Guideline |
| Greatest possible thickness of the label/ nameplate | 0.125" (3.175 mm) |
| Depth of focus | 0.125" (3.175 mm) |
| Smallest element size | 0.0075" (0.19 mm) |
| Current requirement | AC adapter for 100 ... 250 VAC, 0.05 A 50/60 Hz input; 24 V with 500 mA output |
| Networking options | Ethernet for standard operation, RS232 baudrates from 600 bit/s to 115.3 Kbit/s for maintenance purposes |
| Operating temperature | 0 ... 40 °C (32 ... 104 °F) |
| Lighting | Embedded Class I LED Red LED: 640 nm Diffuse perpendicular (90°) light |
| Laser target beam | Class II laser to IEC 60825-1 |
| Humidity | < 95 %, non-condensing |
| Electrical/mechanical safety | EN 61010-1: 2002 |
| Laser safety | EN 60825-1 1993 Amendment 2 2001-01 |
| Image field | 25.4 mm x 19.05 mm (1.0" x 0.75") |



| Type | UID Compliance Verifier, DPM |
|---|--|
| Image field | 30.2 mm x 21.8 mm (1.19" x 0.86") |
| Test functions | ISO 16022, ISO 15415, AS9132 Laser, AS9132 Dot Peen, AS9132 Electro-Chemical Etch, MIL-STD-130M Enhanced ISO 15415, AIM DPM-1-2006 Quality Guideline |
| Greatest possible thickness of the label/ nameplate | 0.125" (3.175 mm) |
| Minimum size of elements | 0.0075" (0.19 mm) |
| Performance requirements | AC adapter 100 to 240 VAC, 1.6 A 50/60 Hz input, 24 V with 1.5 A output |
| Interfaces | Ethernet for standard operation, RS232 baudrates from 600 baud to 115.2 Kbaud for maintenance purposes |
| Operating temperature | 0 ... 40 °C (32 ... 104 °F) |
| Lighting | AIM DPM-1-2006 Quality Guideline Embedded Class I LED, Red LED: 640 nm Light settings: Diffuse Perpendicular 90 Degrees (90) Dome (D) Medium Angle 45 Degrees (45Q) Low Angle 30 Degrees (30Q, 30T and 30S) |
| Humidity | Up to 95 %, non-condensing |
| Electrical/mechanical safety | EN 61010-1: 2002 |
| Laser safety | EN 60825-1 1993 Amendment 2 2001-01 |

****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

UID Verifiers

| Part Number | Description | List Price | Type |
|---------------|------------------------------|------------|------|
| FIS-UD10-0DP1 | UID COMPLIANCE VERIFIER, DPM | € 7,995 | P |
| FIS-UD20-0CK1 | UID COMPLIANCE VERIFIER, LDP | € 7,360 | P |

Accessories

| Part Number | Description | List Price | Type |
|-------------------|--|------------|------|
| 98-UA10-0CC0 | UID CALIBRATION REPLACEMENT CARD | € 146 | A |
| 98-UD10-1DP0 | UID DPM SYSTEM AIM UPGRADE * | € 3,800 | A |
| 98-UD20-1CK0 | UID COMPLIANCE KIT AIM UPGRADE *** | € 2,500 | A |
| 98-UA10-0ST0 | UID DPM STAND, ACCESSORY ITEM | € 863 | A |
| FIS-UIDDPMDEMO_01 | Demo Kit, UID DPM Verifier (contains verifier)** | € 7,595 | ** |
| FIS-UIDLDPDEMO_01 | Demo Kit, UID LDP Verifier (contains verifier)** | € 7,195 | ** |

** Demo Kit contains verifier. Kit is discounted 25%.

Notes:

* UID DPM System AIM Upgrade is a return to factory upgrade. Customer requests an RMA# and returns unit after placing PO for 98-UD10-1DP0.

*** UID Compliance Kit AIM Upgrade is a return to factory upgrade. Customer requests an RMA# and returns unit after placing PO for 98-UD20-1CK0.

Prices and Specifications Subject to Change

Tel: **425.226.5700**
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Auto ID Handhelds

HS-1 Handheld Linear CCD Barcode Reader (1D Codes)

Read Ranges *

Narrow Bar

| | |
|------------------|------------------------------|
| 5 mil (.127 mm) | 1.5" to 3.5" (35 to 89 mm) |
| 10 mil (.254 mm) | 1.8" to 7.6" (46 to 193 mm) |
| 20 mil (.508 mm) | 3.0" to 13.8" (76 to 351 mm) |



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Reader

| Part Number | Description | List Price | Type |
|--------------|-------------------------------------|------------|------|
| 98-000106-01 | Handled, Linear Barcode Reader, USB | €162 | P |

NOTE: Demo kits are not available for HS-1, HS-2D and Mobile Hawk. A reader, specifically purchased as a demo unit will be discounted 50%.

Accessories

| Part Number | Description | List Price | Type |
|---------------------------|-----------------------|------------|------|
| 98-000108-01 | HS-1 Mounting Stand | €44 | A |
| 98-000111-01 ¹ | RS232 Kit | €44 | A |
| 98-000112-01 ¹ | USB Virtual Com Cable | €44 | A |

¹ Order 98-000106 USB HD Handheld and this part number.

HS-2D Handheld 2D CCD Barcode Reader (2D and 1D Codes)

Read Ranges

High Resolution

| | |
|------------------|-------------------------------|
| 5 mil (.127 mm) | 1.75" to 2.50" (44 to 64 mm) |
| 10 mil (.254 mm) | 1.75" to 4.75" (44 to 103 mm) |
| 20 mil (.508 mm) | 1.75" to 6.50" (44 to 165 mm) |



Reader

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-000107-01 | Handled, 2D Barcode Reader, 6' USB Cable | €385 | P |

NOTE: Demo kits are not available for HS-1, HS-2D and Mobile Hawk. A reader, specifically purchased as a demo unit will be discounted 50%.

Accessories

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000074-04 | Kit, RS-232 Interface, 8 ft coiled cable, USA Power Supply | €77 | A |
| 98-000074-05 | Kit, RS-232 Interface, 8 ft coiled cable, Europe Power Supply | €110 | A |
| 98-000074-06 | Kit, RS-232 Interface, 8 ft coiled cable, UK Power Supply | €121 | A |
| 98-000153-01 | Handheld Stand | €164 | A |

Auto ID 2D Handhelds

MS-Q Rugged Handled Imagers

| Read Ranges | |
|----------------------------|-------------------------------|
| High Resolution | |
| 5 mil (.127 mm) | 1.75" to 2.50" (44 to 64 mm) |
| 10 mil (.254 mm) | 1.75" to 4.75" (44 to 103 mm) |
| 20 mil (.508 mm) | 1.75" to 6.50" (44 to 165 mm) |
| Standard Resolution | |
| 7.5 mil (.191 mm) | 3.2" to 3.9" (81 to 99 mm) |
| 15 mil (.381 mm) | 3.0" to 9.0" (76 to 229 mm) |
| 20 mil (.508 mm) | 3.0" to 11.5" (76 to 292 mm) |



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

MS-Q Basic Rugged Handled Imager

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6150-0028G | Handled, Imager, Standard Res., USB 6ft., H2 * | €695 | P |
| FIS-6150-0029G | Handled, Imager, Standard Res., Batch/Battery, BH2 * | €795 | P |
| FIS-6150-0031G | Handled, Imager, Standard Res., Bluetooth, BH2 * | €895 | P |

MS-Q Quadrus Rugged Handled Imager

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-6100-0047G | Handled, Imager, High Resolution, Quadrus Software, USB 6ft, H2 * | €1,460 | P |
| FIS-6100-0048G | Handled, Imager, High Res., Quadrus Software, Batch/Battery, BH2 * | €1,610 | P |
| FIS-6100-0050G | Handled, Imager, High Res., Quadrus Software, Bluetooth, BH2 * | €1,760 | P |
| FIS-6100-0051G | Handled, Imager, Standard Res., Quadrus Software, USB 6ft., H2 * | €1,460 | P |
| FIS-6100-0052G | Handled, Imager, Standard Res., Quadrus Software, Batch/Battery, BH2 * | €1,610 | P |
| FIS-6100-0054G | Handled, Imager, Standard Res., Quadrus Software, Bluetooth, BH2 * | €1,760 | P |
| FIS-6100-0053G | Handled, Imager, Standard Res., Quadrus SW, Image Lock, H2 * | €1,660 | P |

* = Includes 6ft USB Cable; PS/2 and RS-232 are optional and the appropriate cable must be purchased separately.

H2 = Battery Blank Handle

BH2 – 3900 mAH Battery Option

HawkEye 40T and 45T Series Handled Imagers



| Type | HawkEye 40T/45T |
|---|--|
| Focal Point (min/max) | 60 mm (1.9") / 375 mm (14.8") |
| Field of View Near: at 50 mm (1.9") distance | 26 mm x 15 mm (0.98" x 0.6") |
| Field of View Far: at 375 mm (14.8") distance | 150 mm x 90 mm (5.9" x 3.5") |
| Decoding Capability | 1D: Code 39, Code 128, Codabar, Code 93, DCFB, UPC/EAN, UPC-E, UPC Supplements 2D: Data Matrix, PDF417, QR Code |
| Minimum element size 1D Barcode/2D Matrix Code | 0.114 mm bar thickness (0.0045")/0.128 mm element size (0.006") |

HawkEye 40T Handled Imagers

| Part Number | Description | List Price | Type |
|-------------|---|------------|------|
| FIS-HT40-1G | HAWKEYE40T, HANDHELD, SR, USB CABLE, H2 HANDLE* | €1,662 | P |
| FIS-HT40-6G | HAWKEYE40T, HANDHELD, SR, W/BLUETOOTH & USB CABLE, BH2 HANDLE | €2,065 | P |
| FIS-HT40-8G | HAWKEYE40T, HANDHELD, SR, BH2 HANDLE & USB CABLE | €1,892 | P |

* = Includes 6ft USB Cable; PS/2 and RS-232 are optional and the appropriate cable must be purchased separately.

H2 = Battery Blank Handle

BH2 – 3900 mAH Battery Option



| Type | HawkEye 40T/45T |
|---|--|
| Focal Point (min/max) | 60 mm (1.9") / 375 mm (14.8") |
| Field of View Near: at 50 mm (1.9") distance | 26 mm x 15 mm (0.98" x 0.6") |
| Field of View Far: at 375 mm (14.8") distance | 150 mm x 90 mm (5.9" x 3.5") |
| Decoding Capability | 1D: Code 39, Code 128, Codabar, Code 93, DCFB, UPC/EAN, UPC-E, UPC Supplements 2D: Data Matrix, PDF417, QR Code |
| Minimum element size 1D Barcode/2D Matrix Code | 0.114 mm bar thickness (0.0045")/0.128 mm element size (0.006") |

HawkEye 45T Series Handled Imagers

| Part Number | Description | List Price | Type |
|-------------|---|------------|------|
| FIS-HT45-1G | HAWKEYE45T, HANDHELD, SR, USB CABLE, H2 HANDLE* | €1,950 | P |
| FIS-HT45-6G | HAWKEYE45T, HANDHELD, SR, W/BLUETOOTH & USB CABLE, BH2 HANDLE | €2,365 | P |
| FIS-HT45-8G | HAWKEYE45T, HANDHELD, SR, BH2 HANDLE & USB CABLE | €2,185 | P |

* = Includes 6ft USB Cable; PS/2 and RS-232 are optional and the appropriate cable must be purchased separately.

H2 = Battery Blank Handle

BH2 – 3900 mAH Battery Option

MS-Q RS-232 Kits (Serial Interface)

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000074-04 | Kit, RS-232 Interface, 8 ft coiled cable, USA Power Supply | €77 | A |
| 98-000074-05 | Kit, RS-232 Interface, 8 ft coiled cable, Europe Power Supply | €110 | A |
| 98-000074-06 | Kit, RS-232 Interface, 8 ft coiled cable, UK Power Supply | €121 | A |

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MS-Q Battery Charger Kit

| Part Number | Description | List Price | Type |
|--|--|------------|------|
| H1 Handle Chargers | | | |
| 98-000075-04 | Kit, 2-Bay Battery Charger for H1 Batteries, USA Power Supply | €165 | A |
| 98-000075-05 | Kit, 2-Bay Battery Charger for H1 Batteries, Europe Power Supply | €193 | A |
| 98-000075-06 | Kit, 2-Bay Battery Charger for H1 Batteries, UK Power Supply | €220 | A |
| BH2 Battery Handle Cable Chargers | | | |
| 98-000075-07 | Kit, Cable Battery Charger for BH2, USA Power Supply | €83 | A |
| 98-000075-08 | Kit, Cable Battery Charger for BH2, Europe Power Supply | €110 | A |
| 98-000075-09 | Kit, Cable Battery Charger for BH2, UK Power Supply | €138 | A |
| BH2 Battery Handle Charging Bay* | | | |
| 98-000075-10 | Kit, Charging Bay for BH2, USA Power Supply | €110 | A |
| 98-000075-11 | Kit, Charging Bay for BH2, Europe Power Supply | €138 | A |
| 98-000075-12 | Kit, Charging Bay for BH2, UK Power Supply | €165 | A |
| 98-000075-13 | Kit, Charging Bay for BH2, No Power Supply | €83 | A |

MS-Q Bluetooth Modem Kits

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000076-11 | Kit, Bluetooth Modem, RS-232, USA Power Supply | €495 | A |
| 98-000076-12 | Kit, Bluetooth Modem, RS-232, Europe Power Supply | €523 | A |
| 98-000076-13 | Kit, Bluetooth Modem, RS-232, UK Power Supply | €545 | A |
| 98-000076-14 | Kit, Bluetooth Modem, USB | €440 | A |

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 20-000335-02 | Power Supply, Wall Mount, 90-264 VAC, +5VDC, 1.5A, USA plug | €33 | A |
| 20-000336-02 | Power Supply, Wall Mount, 90-264 VAC, +5VDC, 1.5A, Europe plug | €72 | A |
| 20-000337-02 | Power Supply, Wall Mount, 200-240 VAC, +5VDC, 2.4A, UK plug | €88 | A |

Accessories

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 and MS-890 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 and MS-890 | €52 | A |
| 61-000066-02 | Cable, MS-Q to MS-Connect 210, 15 ft | €88 | A |
| 12-000215-06 | Rugged Handle, Battery Blank (H2) | €109 | A |
| 12-000215-08 | Rugged Handle, 3900mAH Battery (BH2) | €274 | A |
| 60-000008-02 | Cable, 8' coiled, RS-232 interface | €50 | A |
| 60-000009-02 | Cable, 6' straight, USB interface | €50 | A |
| 60-000031-01 | Cable, 12' straight, USB interface | €77 | A |
| 60-000018-02 | Cable, 6' coiled, PS/2 interface | €66 | A |
| 98-000077-13* | Demo Kit, MS-Q (includes Bluetooth modem) | €695 | * |

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

Software / Manuals

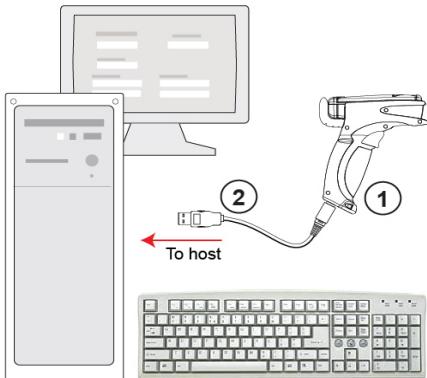
| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 37-000010-01 | TOOLS DRIVE, User Documentation, Software* | €30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | €30 | A |

* 1 free per order.

Tech Reference MS-Q

USB

The reader communicates to the host using USB.



System Matrix (MS-Q Quadrus)

| Product | Reference No. | Description | List Price |
|-------------------------|----------------|---|------------|
| (1) MS-Q Quadrus | FIS-6100-XXXXG | Handled, Imager, High Resolution, Quadrus Software, USB, (PS/2, RS-232) * | Varies |
| (2) USB Cable | | Included in MS-Q kit | |
| Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

*Note: Kit includes MS-Q Imager and USB Cable.

**1 free per order.

System Matrix (MS-Q Basic)

| Product | Reference No. | Description | List Price |
|-------------------------|----------------|---|------------|
| (1) MS-Q Basic | FIS-6150-XXXXG | Handled, Imager, Standard Resolution, USB, (PS/2, RS-232) * | Varies |
| (2) USB Cable | | Included in MS-Q kit | |
| Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

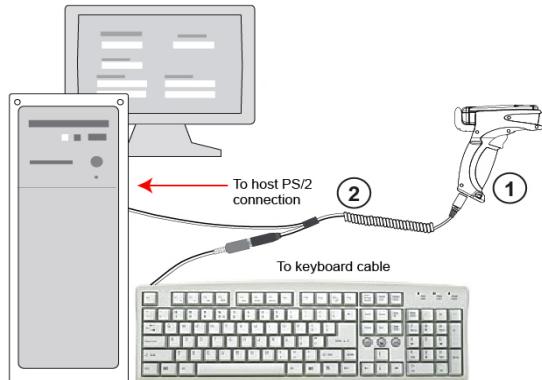
*Note: Kit includes MS-Q Imager and USB Cable, PS/2 and RS-232 are optional and the appropriate cable must be purchased separately.

**1 free per order.

Tech Reference MS-Q

PS/2

The reader communicates to the host using PS/2.



System Matrix (MS-Q Quadrus)

| Product | Reference No. | Description | List Price |
|--------------------------|----------------|--|------------|
| (1) MS-Q Quadrus | FIS-6100-XXXXG | Handled, Imager, High Resolution, Quadrus Software, PS/2 | Varies |
| (2) Keyboard Wedge cable | 60-000018-02 | Cable, 6' coiled, PS/2 interface | €66 |
| Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

*1 free per order.

System Matrix (MS-Q Basic)

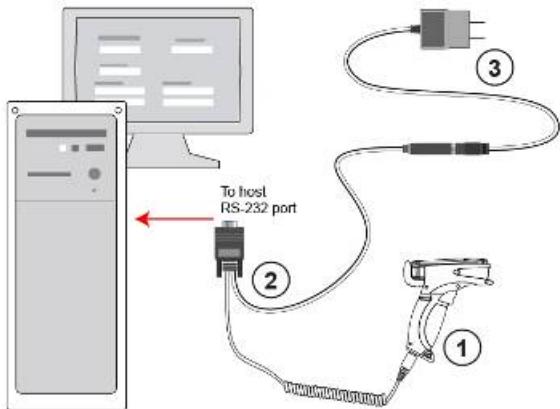
| Product | Reference No. | Description | List Price |
|--------------------------|----------------|---|------------|
| (1) MS-Q Basic | FIS-6150-XXXXG | Handled, Imager, Standard Resolution, PS/2 | Varies |
| (2) Keyboard Wedge cable | 60-000018-02 | Cable, 6' coiled, PS/2 interface | €66 |
| Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

*1 free per order.

Tech Reference MS-Q

RS-232

The reader communicates to the host using RS-232.



System Matrix (MS-Q Quadrus)

| Product | Reference No. | Description | List Price |
|------------------------------|----------------------|---|-------------------|
| (1) MS-Q Quadrus | FIS-6100-XXXXG | Handled, Imager, High Resolution, Quadrus Software, USB, (PS/2, RS-232) *** | Varies |
| (2) RS-232 Kit | 98-000074-xx | Kit, RS-232 Interface, 8 ft coiled cable, Power Supply * | Varies |
| (3) Power Supply | See Note | Power Supply, Wall Mount, 90-264 VAC, +5VDC, 1.5A * | Varies |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

* RS-232 Kit includes power supply. There are three power supply options which have slight price differences.

**1 free per order.

*** To use the PS/2 option the appropriate cable must be purchased separately.

System Matrix (MS-Q Basic)

| Product | Reference No. | Description | List Price |
|------------------------------|----------------------|---|-------------------|
| (1) MS-Q Basic | FIS-6150-XXXXG | Handled, Imager, Standard Resolution, USB, (PS/2, RS-232) *** | Varies |
| (2) RS-232 Kit | 98-000074-xx | Kit, RS-232 Interface, 8 ft coiled cable, Power Supply * | Varies |
| (3) Power Supply | See Note | Power Supply, Wall Mount, 90-264 VAC, +5VDC, 1.5A, * | Varies |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

* RS-232 Kit includes power supply. There are three power supply options which have slight price differences.

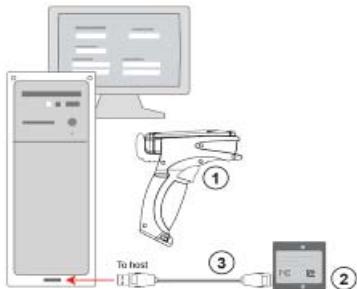
**1 free per order.

*** To use the PS/2 option the appropriate cable must be purchased separately.

Tech Reference MS-Q

Bluetooth

The reader communicates directly to the host using Bluetooth or using a RS-232/Bluetooth modem (shown).



System Matrix (MS-Q Quadrus)

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|---|------------|
| (1) MS-Q Quadrus | FIS-6100-XXXXG | Handled, Imager, High Resolution, Quadrus Software, Bluetooth | Varies |
| (2) Bluetooth Modem Kit | 98-000076-xx | Kit, Bluetooth Modem (Serial Gateway), USA Power Supply * | Varies |
| (3) RS-232 Cable | See Note | Cable, 8' coiled, RS-232 interface * | Varies |
| (4) Power Supply (not shown) | See Note | Power Supply, Wall Mount, 90-264 VAC, +5VDC, 1.5A, USA plug * | Varies |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

*Bluetooth Modem Kit includes RS-232 cable and power supply. There are three power supply options which have slight price differences.

**1 free per order.

System Matrix (MS-Q Basic)

| Product | Reference No. | Description | List Price |
|------------------------------|----------------|---|------------|
| (1) MS-Q Basic | FIS-6150-XXXXG | Handled, Imager, Standard Resolution, Bluetooth | Varies |
| (2) Bluetooth Modem Kit | 98-000076-xx | Kit, Bluetooth Modem (Serial Gateway), USA Power Supply * | Varies |
| (3) RS-232 Cable | See Note | Cable, 8' coiled, RS-232 interface * | Varies |
| (4) Power Supply (not shown) | See Note | Power Supply, Wall Mount, 90-264 VAC, +5VDC, 1.5A, USA plug * | Varies |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software** | €30 |

*Bluetooth Modem Kit includes RS-232 cable and power supply. There are three power supply options which have slight price differences.

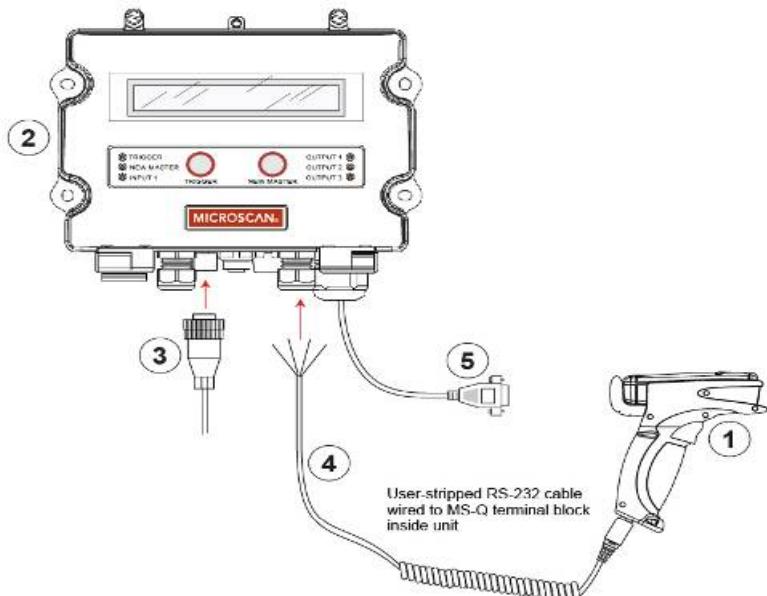
**1 free per order.

Tech Reference MS-Q

**Stand
Alone**

with MS-Connect 210

This is the basic setup for a single MS-Q
wired to the MS-Connect 210.



System Matrix

| Product | Reference No. | Description | List Price |
|------------------------------|----------------------|---|-------------------|
| (1) MS-Q Quadrus | FIS-6100-XXXXG | Handled, Imager, Quadrus Software | Varies |
| (2) MS-Connect 210 | FIS-0210-000XG | Connectivity Box * | Varies |
| (3) Power Supply | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | €138 |
| (4) Reader Cable | 61-000066-02 | MS-Q to MS-Connect 210 coiled cable, 15 ft ¹ | €88 |
| (5) Host Cable | 61-000105-01 | Pre-stripped RS-232, 9-pin host cable ** | €33 |
| User Documentation, Software | 37-000010-01 | TOOLS DRIVE, User Documentation, Software*** | €30 |

* See MS-Connect Series section for a complete listing of Accessories

** 1 free host cable is included with each MS-Connect 210

*** 1 free per order.

Auto ID DPM Handhelds**Mobile Hawk High Performance DPM Handheld Reader****Read Ranges****High Resolution**

| | |
|------------------|------------------------------|
| 5 mil (.127 mm) | .25" to .75" (44 to 64 mm) |
| 10 mil (.254 mm) | .50" to 1.50" (44 to 103 mm) |
| 20 mil (.508 mm) | .50" to 3.50" (44 to 165 mm) |



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Reader

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-6170-0001G | Mobile Hawk DPM Reader, 12 ft USB cable | €1,670 | P |

RS-232 Kits (Serial Interface)

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000074-04 | Kit, RS-232 Interface, 8 ft coiled cable, USA Power Supply | €77 | A |
| 98-000074-05 | Kit, RS-232 Interface, 8 ft coiled cable, Europe Power Supply | €110 | A |
| 98-000074-06 | Kit, RS-232 Interface, 8 ft coiled cable, UK Power Supply | €121 | A |
| 60-000008-02 | Cable, 8' coiled, RS-232 interface | €50 | A |
| 60-000009-02 | Cable, 6' straight, USB interface | €50 | A |
| 60-000031-01 | Cable, 12' straight, USB interface | €77 | A |
| 98-000153-01 | Mobile Hawk Presentation Stand | €136 | A |

NOTE: Demo kits are not available for HS-1, HS-2D and Mobile Hawk. A reader, specifically purchased as a demo unit will be discounted 50%.

NOTE: PS2 cable is not supported by the Mobile Hawk product.

Auto ID Software, Connectivity, and Accessories

MS-Connect Series



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

MS-Connect 210 Options

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |

Accessories

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| 61-000066-02 | Cable coiled, MS-Connect 210 to MS-Q, (must be stripped by user before wiring) | €88 | A |
| 61-000105-01 | Pre-stripped to 9pin host cable, 6 ft | €33 | A |
| 61-000121-02 | Cable, MS-820 to MS-Connect 210, 3 ft | €110 | A |
| 61-000122-01 | Cable, To MS-Connect 210, Host RS-422/485 for Multidrop, 6 ft | €110 | A |
| 61-000123-01 | Cable, To MS-Connect 210, Host/AUX RS-232, for Daisy Chain 210 to 210, 6 ft | €110 | A |
| 61-000124-01 | Cable, Quadrus EZ with onboard Ethernet to MS-Connect 210, Ethernet, 6 ft | €110 | A |
| 61-000127-02 | Cable, MS-9 to MS-Connect 210, 6 ft | €110 | A |
| 61-000128-01 | Cable, external Micro-Change to internal Ethernet module, MS-Connect 210, 8 in. | €55 | A |
| FIS-0001-0035G | IC-332, Connects 5V Reader to IB-131 | €165 | A |
| 61-000136-01 | Ethernet Cross over Cable, CAT5, 10' | €33 | A |
| 98-000013-04 | Pluggable Relay Module, 120VAC, Series 70, Type SM | €52 | A |
| 98-000013-05 | Pluggable Relay Module, 240VAC, Series 70, Type SM | €52 | A |
| 98-000013-06 | Pluggable Relay Module, 24VDC, Series 70, Type SM | €52 | A |
| 61-000139-01 | Cable, To MS-Connect 210, Host RS-422/485 for Multidrop, 6 ft | €110 | A |
| 61-000066-01 | Cable, MS-Connect 210 to MS-Q (must be stripped by user before wiring) | €88 | A |
| 61-000158-03 | QX Cordset, M12 12pin Plug & M12 12pin Socket to MS-Connect 210 (RS-232), 2m | €176 | A |
| 61-000158-04 | QX Cordset, M12 12pin Plug & M12 12pin Socket to MS-Connect 210 (RS-422), 2m | €176 | A |
| 98-000095-02** | Demo Kit, MS-Connect 210 | €895 | ** |

** This demo kit contains MS-Connect 210 and is discounted 25%.

Power Supply

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA/Euro Plug | €138 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|-----------------------|------------|------|
| 98-000093-01 | DIN Rail Mounting Kit | €50 | A |

Package Detector/Sensor

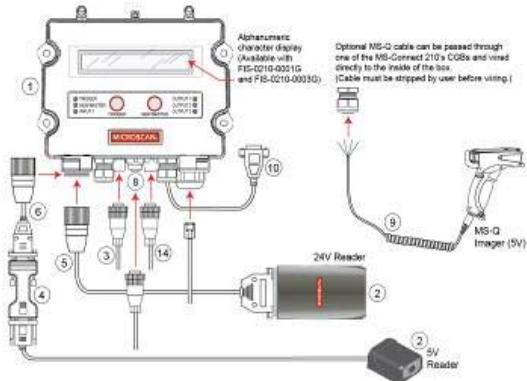
| Part Number | Description | List Price | Type |
|--------------|--------------------------------------|------------|------|
| 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | €193 | A |

Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 37-000010-01 | TOOLS DRIVE: User Documentation, Software | €30 | A |
| 37-000003-01 | EZ Trax Software | €500 | A |

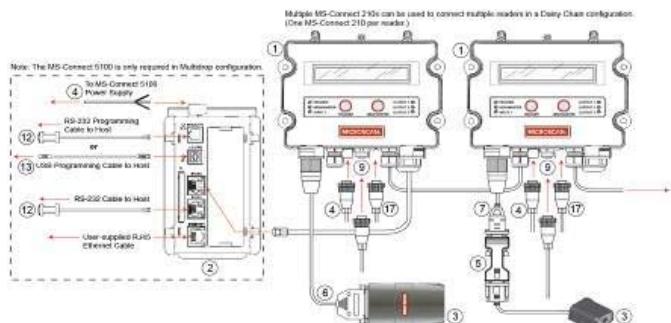
Stand Alone

These are the setup options for one MS-Connect 210 and one 10-28V or 5V reader.



| Product | Reference No. | Description | List Price |
|--|----------------------|--|-------------------|
| (1) MS-Connect 210 | FIS-0210-0001G | Connectivity Box with Display | €650 |
| | FIS-0210-0002G | Connectivity Box | €420 |
| | FIS-0210-0003G | Connectivity Box with Display and Ethernet | €725 |
| | FIS-0210-0004G | Connectivity Box with Ethernet | €650 |
| (2) Microscan Reader | FIS-XXXX-XXXXG | Varies | Varies |
| (3) Power Supply | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA/Euro Plug | €138 |
| (4) IC-332 (5V Readers) | FIS-0001-0035G | Power Adapter, Connects 5V Reader to Interface | €165 |
| (5) Reader Cable (10-28V Readers) | 61-000122-01 | Cable, To MS-Connect 210, Host RS-422/485 for Multidrop, 6 ft | €110 |
| (6) Reader Cable (5V Readers and MS-9) | 61-000127-02 | Cable, 5V Reader or MS-9 to MS-Connect 210, 6 ft | €110 |
| (7) Reader Cable (5V Readers and MS-9) | 61-000139-01 | Cable, To MS-Connect 210, Host RS-422/485 for Multidrop, 6 ft | €110 |
| (8) Reader Cable (MS-820 only; not shown) | 61-000121-02 | Cable, MS-820 to MS-Connect 210, 3 ft | €110 |
| (9) Internal Ethernet Cable (If applicable) | 61-000128-01 | Cable, Micro-Change to Ethernet module, MS-Connect 210, 8 in. | €55 |
| (10) MS-Q Reader Cable (If applicable) | 61-000066-01 | Cable, MS-Connect 210 to MS-Q (must be stripped by user before wiring) | €88 |
| (11) MS-Connect 210 Host Cable | 61-000105-01 | Pre-stripped to 9pin host cable, 6 ft | €33 |
| (12) Pluggable Relay Module (If applicable; not shown) | 98-000013-04 | 120VAC, Series 70, Type SM | €52 |
| (13) Pluggable Relay Module (If applicable; not shown) | 98-000013-05 | 240VAC, Series 70, Type SM | €52 |
| (14) Pluggable Relay Module (If applicable; not shown) | 98-000013-06 | 24VDC, Series 70, Type SM | €52 |
| (15) Object Detector (If applicable) | 99-000017-02 | Photo sensor, Visible, NPN, Light On | €193 |
| DIN Rail Mounting Kit | 98-000093-01 | Mounting kit for affixing the MS-Connect 210 to a DIN rail | €50 |

Multidrop / Daisy Chain



| Product | Reference No. | Description | List Price |
|---|----------------|--|------------|
| (1) MS-Connect 210 | FIS-0210-0001G | Connectivity Box with Display | € 650 |
| | FIS-0210-0002G | Connectivity Box | € 420 |
| | FIS-0210-0003G | Connectivity Box with Display and Ethernet | € 725 |
| | FIS-0210-0004G | Connectivity Box with Ethernet | € 650 |
| (2) MS-Connect 5100 | FIS-5100-0001G | Enhanced Multidrop Concentrator (required for Multidrop only) | € 1,095 |
| (3) Microscan Reader | FIS-XXXX-XXXXG | Varies | Varies |
| (4) Power Supply | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA/Euro Plug | € 138 |
| (5) IC-332 | FIS-0001-0035G | Power Adapter, Connects 5V Reader to Interface | € 165 |
| (6) Reader Cable (10-28V) | 61-000122-01 | Cable, To MS-Connect 210, Host RS-422/485 for Multidrop, 6 ft Cable, | € 110 |
| (7) Reader Cable (5V Readers and MS-9) | 61-000127-02 | Cable, 5V Reader or MS-9 to MS-Connect 210, 6 ft | € 110 |
| (8) Reader Cable (MS-820 only; not shown) | 61-000121-02 | Cable, MS-820 to MS-Connect 210, 3 ft | € 110 |
| (9) Internal Ethernet Cable (If applicable) | 61-000128-01 | Cable, Micro-Change to Ethernet module, MS-Connect 210, 8 in. | € 55 |
| (10) MS-Q Reader Cable (If applicable; not shown) | 61-000066-02 | Cable, MS-Connect 210 to MS-Q (must be stripped by user before wiring) | € 88 |
| (11) MS-Connect 210 Host Cable (not shown) | 61-000105-01 | Pre-stripped to 9pin host cable, 6 ft | € 33 |
| (12) MS-Connect 5100 Host Cable (required for Multidrop only) | 61-000108-01 | Cable, RJ-12 to 9-pin D Sub, 6 Feet | € 50 |
| (13) MS-Connect 5100 Programming Cable required for Multidrop only) | 61-000112-01 | Cable, USB Type A Male to Mini B Male, 10 ft | € 33 |
| (14) Pluggable Relay Module (If applicable; not shown) | 98-000013-04 | 120VAC, Series 70, Type SM | € 52 |
| (15) Pluggable Relay Module (If applicable; not shown) | 98-000013-05 | 240VAC, Series 70, Type SM | € 52 |
| (16) Pluggable Relay Module (If applicable; not shown) | 98-000013-06 | 24VDC, Series 70, Type SM | € 52 |
| (17) Object Detector (If applicable) | 99-000017-02 | Photo sensor, Visible, NPN, Light On | € 193 |
| DIN Rail Mounting Kit | 98-000093-01 | Mounting kit for affixing the MS-Connect 210 to a DIN rail | € 50 |

MICROSCAN.

MS-Connect 5100 Options

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-5100-0001G | MS-Connect 5100, Enhanced Multidrop Concentrator | € 1,095 | A |

Accessories

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| FIS-0001-0035G | IC-332, Connects MINI to IB-131 | € 165 | A |
| 61-000108-01 | Cable, RJ-12 to 9-pin D Sub, 6 Feet | € 50 | A |
| 61-000112-01 | Cable, USB Type A Male to Mini B Male, 10 ft | € 33 | A |
| 61-000113-01 | Cable, Concentrator to IB-131/IB-150 RJ45 to 25-pin D Sub, 10 ft | € 66 | A |
| 61-100030-03 | Cable, Multidrop, 10 feet IB-131/IB-150 to IB-131/IB-150 ¹ | € 33 | A |
| 99-000018-01 | IB-131 Interface Box for MS-3, MS4, MS-9, MS-820 and Quadrus MINI | € 165 | A |
| 98-000040-02 | IB-150 and Reader cable, 6 ft for MS-860, MS-890 and Quadrus EZ | € 193 | A |
| 61-000161-01 | QX Cordset, M12 12pin Plug to MS-Connect 5100, 3m | € 57 | A |

¹ Gender changer may be needed for IB-131 to IB-150; one gender changer included with 61-000113-01.

Power Supply

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 97-100004-15 | Power Supply, 90-264 VAC, 24VDC, USA/Euro Plug | € 138 | A |

Mounting

| Part Number | Description | List Price | Type |
|--------------|------------------|------------|------|
| 10-000251-01 | Mounting Bracket | € 50 | A |

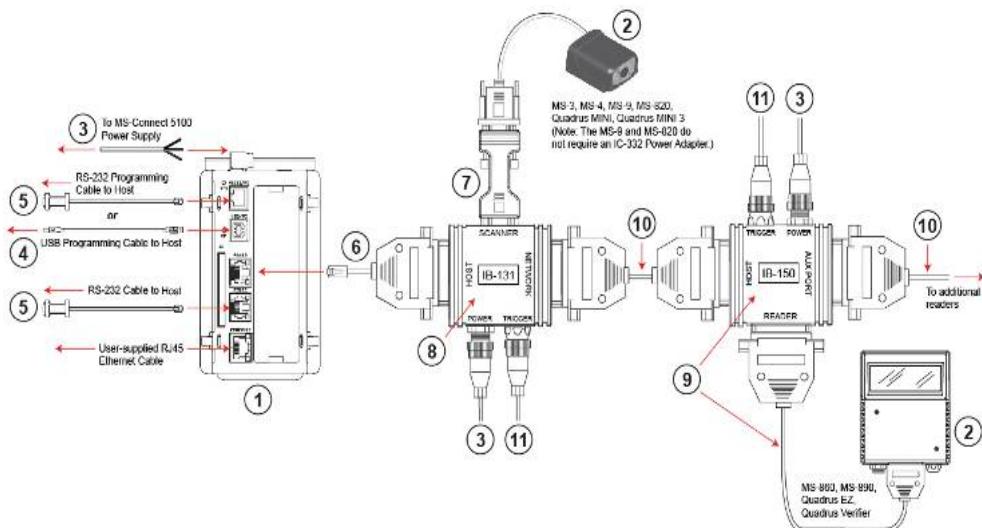
Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--------------------------------------|------------|------|
| 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | € 193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, LIGHT ON | € 193 | A |

Software/Manuals

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 37-000010-01 | TOOLS DRIVE: User Documentation, Software | € 30 | A |
| 37-000003-01 | EZ Trax Software | € 500 | A |

Multidrop



| Product | Reference No. | Description | List Price |
|---|----------------|---|------------|
| (1) MS-Connect 5100* | FIS-5100-0001G | Enhanced Multidrop Concentrator | 1095 |
| (2) Microscan Reader | FIS-XXXX-XXXXG | Varies | Varies |
| (3) Power Supply | 97-100004-15 | 1-Power supply per MS-Connect 5100 unit and Readers | €138 |
| (4) USB Programming Cable, | 61-000112-01 | Cable, USB Type A Male to Mini B Male, 10 ft | €33 |
| (5) Prog/Comm. Cable, RS-232 | 61-000108-01 | Cable, RJ-12 to 9-pin D Sub, 6 Feet | €50 |
| (6) Concentrator Cable | 61-000113-01 | Cable, Concentrator to IB-131/IB-150 RJ45 to 25-pin D Sub, 10 ft | €66 |
| (7) IC-332 | FIS-0001-0035G | Adapter for 5-Volt readers, MS-3, MS-4 and Quadrus MINI | €165 |
| (8) IB-131 Interface Box | 99-000018-01 | IB-131 Interface Box for MS-3, MS4, MS-9, MS-820 and Quadrus MINI | €165 |
| (9) Kit, IB-150 Interface Box | 98-000040-02 | IB-150 and Reader cable, 6 ft for MS-860, MS-880 and Quadrus EZ | €193 |
| (10) Multidrop Trunk Cable | 61-100030-03 | Cable, multidrop, 10 feet IB-131/IB-150 to IB-131/IB-150 ¹ | €33 |
| (11) Object Detector (If applicable) | 99-000017-01 | Photo sensor, Visible, NPN, Dark On | €193 |
| Mounting Bracket (not shown) | 10-000251-01 | Mounting bracket for affixing the unit to flat surfaces | €50 |

¹ Gender changer may be needed for IB-131 to IB-150; one gender changer included with 61-000113-01.

See QX-830 section for Multidrop configurations *Discounted like FIS

Auto ID Product Accessories

| Protocol | | | List Price | Type |
|--------------|---|--|------------|------|
| Part Number | Description | | | |
| 20-500013-01 | DeviceNet Protocol Box ¹ | | € 655 | A |
| 98-000056-02 | Kit, Protocol Card, Ethernet TCP/IP, MS-890 | | € 655 | A |

¹ Part is not RoHS compliant.

Monitor (110 VAC only)

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-000096-01 | Kit, Monitor 7" TFT LCD and Video I/O Cable, 10 feet | € 710 | A |

Right Angle Mirror Kits

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-200026-02 | Right Angle Down Mirror Kit, MS-820 | € 83 | A |
| 98-200036-01 | Right Angle Down Mirror Kit, MS-9 | € 83 | A |
| 98-000036-01 | Right Angle Up Mirror Kit, Quadrus EZ | € 83 | A |
| 98-000088-01 | Right Angle Up Mirror Kit, Small Imagers | € 55 | A |
| 98-000058-02 | Kit, Extended Right Angle Mirror, MS-3 | € 55 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 99-000017-01 | Photo Sensor, Visible, NPN, Dark On | € 193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, Light On | € 193 | A |
| 99-000019-01 | Photo Sensor, Visible, NPN, Light On, 5VDC | € 193 | A |
| 99-000004-01 | MS-890, Standard Diffuse, 120 inch Range, 4-pin Plug | € 248 | A |
| 99-000004-02 | MS-890, Standard Diffuse, 120 inch Range, Unterminated | € 248 | A |
| 99-000020-02 | QX Photo sensor, M12 4pin Plug, NPN, Dark On, 2m | € 193 | A |
| 99-000020-01 | QX Photo sensor, M12 4pin Plug, NPN, Dark Off, 2m | € 193 | A |

Cable / Connectivity

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 61-000010-02 | Cable, Communication, DB-9 Socket to DB-9 Socket, 6 ft | € 33 | A |
| 61-000011-02 | Cable, MS-820 to IB-131 (also use for MS-3, 4, 9, 710 and MINI Extension) | € 33 | A |
| 61-000033-02 | Cable, Video I/O, 10 ft | € 33 | A |
| 61-000034-02 | Cable, Communication, 9-pin D-sub Socket to 25-pin D-sub Socket | € 33 | A |
| 61-100029-03 | Cable, IB to IB, 1 ft | € 33 | A |
| 61-300026-03 | Cable, Communication, DB-25 Plug to DB-9 Socket, 6 ft | € 33 | A |
| 61-000095-01 | ASSY, CABLE ADAPTER, IB-150 TO IB-131 | € 33 | A |
| 61-000032-02 | Cable, Quadrus EZ to IB-150 | € 33 | A |
| 99-000008-02 | Interface module, IB-150 | € 165 | A |
| 61-000151-01 | Cable, MINI USB, I/O Breakout, Flying Leads, 3ft | € 33 | A |
| 61-000154-01 | Daisy Chain/Comm Adapter | € 83 | A |

Connector Kits

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 20-610024-01 | Trigger Connector for IB-131, MS-820/860/880/9, 4-pin Plug | € 33 | A |
| 20-610020-01 | Power Connector for IB-131, MS-820/860/880/9, 3-pin Socket | € 33 | A |

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 97-000002-01 | Power Supply, 90-264 VAC, +5 VDC, USA/Euro Plug | € 83 | A |
| 97-100004-15 | Power Supply, 90-264 VAC, +24 VDC, RoHS Compliant, US and Euro Plug | € 138 | A |
| 97-000003-01 | QX Power Supply, M12 12 pin Socket, 1.3m | € 88 | A |
| 97-000003-02 | QX Power Supply, M12 12 pin Plug, 1.3m | € 88 | A |

Connectivity Box

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 61-000122-01 | Cable, 19 pin to 25 pin, Host RS-422/485, 6 ft (10-28v Readers) | €110 | A |
| 61-000123-01 | Cable, 19 pin to 25 pin, Host RS-232, AUX RS-232, 6 ft (10-28V Readers) | €110 | A |
| 61-000124-01 | Cable, 19 pin to 25 pin, Ethernet, 6 ft (Quadrus EZ Only) | €110 | A |
| 61-000127-02 | Cable, 19 pin to 15 pin, 6 ft (5V Readers and MS-9) | €110 | A |
| 61-000121-02 | Cable, 19 pin to 15 pin, 3 ft (MS-820 only) | €110 | A |
| 61-000066-02 | Cable, MS-Connect 210 to MS-Q (must be stripped by user before wiring) | €88 | A |
| 61-000105-01 | Pre-stripped to 9pin host cable, 6 ft | €33 | A |
| 98-000013-04 | Pluggable Relay Module, 120VAC, Series 70, Type SM | €52 | A |
| 98-000013-05 | Pluggable Relay Module, 240VAC, Series 70, Type SM | €52 | A |
| 98-000013-06 | Pluggable Relay Module, 24VDC, Series 70, Type SM | €52 | A |
| 98-000093-01 | DIN Rail Mounting Kit | €50 | A |
| 61-000158-03 | QX Cordset, M12 12pin Plug & M12 12pin Socket to MS-Connect 210 (RS-232), 2m | €176 | A |
| 61-000158-04 | QX Cordset, M12 12pin Plug & M12 12pin Socket to MS-Connect 210 (RS-422), 2m | €176 | A |

Interface Boxes

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| 98-000014-02 | IB-131 Kit (includes cable to MS-820) | €193 | A |
| 99-000018-01 | IB-131 Interface Box (used with MS-3/IC-332 and MS-9) | €165 | A |
| 98-000040-02 | IB-150 Kit, Quadrus EZ | €193 | A |
| 99-000009-02 | Interconnectivity, IB-151, RS-232 - Ethernet TCP/IP | €110 | A |
| 98-000039-02 | IB-152 Kit, DB25 Plug Terminal Block, DB25 Gender Changer | €138 | A |
| FIS-0001-0035G | IC-332, Connects 5V Reader to IB-131 | €165 | A |
| 98-000051-01 | IC-3USB, USB Conversion Kit | €83 | A |
| FIS-0001-0030G | IB-3PC, Interface to PC | €110 | A |
| 99-420003-04 | Wiring Box Base, IB-890/FIS-0880-0002 * | €330 | A |
| 98-000103-02 | QX-1 Interface Box | €151 | A |
| 61-000204-01 | Assy, Cable, Power Smart Series to QX-1 | €165 | A |

*Part is not RoHS compliant.

Mounting Components

| Part Number | Description | List Price | Type |
|---------------------------------|--|------------|------|
| Mounting Arm Kits | | | |
| 98-000016-01 | Mounting Arm/Adapter Kit, 820/860, 6 inch | €99 | A |
| 98-000017-01 | Mounting Arm/Adapter Kit, IB-890, 6 inch | €99 | A |
| 98-000018-01 | Mounting Arm/Adapter Kit, MS-890, 6 inch | €99 | A |
| 98-000019-01 | Mounting Arm/Adapter Kit, MS-9, 6 inch | €99 | A |
| 98-000020-01 | Mounting Arm/Adapter Kit, Quadrus EZ//Quadrus Verifier, 6 inch | €99 | A |
| 98-000048-01 | Mounting Arm/Adapter Kit, MS-3, MS-4 and Quadrus MINI, 4 inch | €77 | A |
| Extension Arm Kits | | | |
| 98-000037-01 | Extension Kit, MS-890, MS-860, MS-820, MS-9, IB-890, 6 inch | €61 | A |
| 98-000053-01 | Extension Kit, MS-3, MS-4 and Quadrus MINI, 4 inch | €39 | A |
| 98-000053-02 | 3-inch (75.6 mm) extension; MS-3, MS-4 and Quadrus MINI, 3" | €39 | A |
| Base Plates | | | |
| 98-000046-01 | Kit, Base Plate | €44 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, Small | €33 | A |
| Standard Mounting Plates | | | |
| 98-000092-01 | MS-9 Standard Flat Mounting Plate Kit | €22 | A |
| 98-500006-01 | MS-820, MS-860 Standard Flat Mounting Plate Kit * | €22 | A |
| 98-200037-01 | MS-890 Standard Flat Mounting Plate Kit | €44 | A |
| 98-000060-01 | Kit, Bracket, Side Mount, MS-3 | €22 | A |
| 98-000059-01 | Kit, Bracket, Angle Mount, MS-3 | €22 | A |
| 98-000057-01 | Kit, Bracket, Through Hole Mount, MS-3 | €22 | A |

* Through-hole mounting plate; not for use with mounting arm.

Software / Manuals

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 37-000010-01 | TOOLS DRIVE: User Documentation, Software | €30 | A |
| 37-000001-02 | TOOLS CD, User's Manuals, ESP Software* | €30 | A |
| 37-000003-01 | EZ Trax Software | €500 | A |

Protocol Box/Card

| Part Number | Description | List Price | Type |
|--------------|------------------------|------------|------|
| 20-500013-01 | DeviceNet Protocol Box | €655 | A |

Prices and Specifications Subject to Change

€100 Minimum Order

07-0000001-02 Rev AG

www.microscan.com

Confidential Document

Tel: 425.226.5700

Fax: 425.226.8250

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Vision MINI Smart Camera



Integrated Lighting
Standard and High Density Models
SXGA CMOS 1.3 MP mono
QXGA CMOS 3.0 MP color
USB or Serial**
IP-54
+5VDC
AutoVISION Software*
Upgradable to Visionscape



*Color models are only supported by Visionscape

** Serial requires optional adapter

Important Pricing Discount Note* Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Vision MINI Smart Camera - 1.3 MP

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| GMV-6300-2110G | Vision MINI Smart Camera, USB, STD, SXGA (1.3MP), Built in Light, AutoVISION | €1,790 | P |
| GMV-6300-2112G | Vision MINI Smart Camera, USB, STD, SXGA (1.3MP), Built in Light, AutoVISION + Visionscape | €2,210 | P |
| GMV-6300-2210G | Vision MINI Smart Camera, USB, HD, SXGA (1.3MP), Built in Light, AutoVISION | €1,790 | P |
| GMV-6300-2212G | Vision MINI Smart Camera USB, HD, SXGA (1.3MP), Built in Light, AutoVISION + Visionscape | €2,210 | P |

Vision MINI Smart Camera - 3 MP Color

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| GMV-6300-2172G | Vision MINI Smart Camera, USB, STD, Color QXGA, Built in Light, with Visionscape | €2,590 | P |
| GMV-6300-2272G | Vision MINI Smart Camera, USB, HD, Color, QXGA, Built in Light, with Visionscape | €2,590 | P |

The GMV-6300-2272G and GMV-6300-2172G are smart cameras with 3.0 MPixel color sensors. They are not detected and listed as cameras that can be connected and programmed by AutoVISION. They are detected and listed by Visionscape which is required for programming and monitoring.

Software

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-000217-01 | AutoVISION to Visionscape Upgrade | €420 | A |
| 99-000047-01 | Annual Software Maintenance Plan, Visionscape* | €350 | A |
| 99-000048-01 | Annual Software Maintenance Plan, AutoVISION* | €300 | A |

* Applies to 12-month period following expiration of basic 1 year factory warranty. Contact Microscan for additional information.

Accessories

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| 98-000215-01* | Demo Kit, AutoVISION - supports Vision MINI and Vision HAWK | €495 | * |
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210/MS-890 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210/MS-890 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210/MS-890 | €52 | A |
| 61-000127-02 | Cable, Quadrus MINI to MS-Connect 210, 6 ft | €110 | A |
| FIS-0001-0035G | IC-332, Connects MINI to IB-131 | €165 | A |
| 99-000018-01 | IB-131, Interface Box | €165 | A |
| 98-000039-02 | Kit, IB-152, DB25 Plug Terminal Block, DB25 Gender Changer * | €138 | A |
| 61-300026-03 | Cable, Communication, DB-25 Plug to DB-9 Socket, 6 ft | €33 | A |
| 61-100029-03 | Cable, IB-131 Daisy Chain, 1 ft | €33 | A |
| 20-500013-01 | DeviceNet Protocol Box ^{A 1} | €655 | A |
| 61-000011-02 | Cable, MS-820 to IB-131 (also use for MS-3, 4, 9, 710 and MINI Extension) | €33 | A |
| 61-000151-01 | Cable, MINI USB, I/O Breakout, Flying Leads, 3ft | €33 | A |
| 98-000098-01 | Kit, Quadrus MINI Diffuser | €55 | A |

^A Works with IB-131. ¹ Part is not RoHS compliant.

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

Power Supply

| Part Number | Description | List Price | Type |
|--------------|----------------------|------------|------|
| 97-100004-15 | Power Supply, 90-264 | €138 | A |

Mounting and Connectors

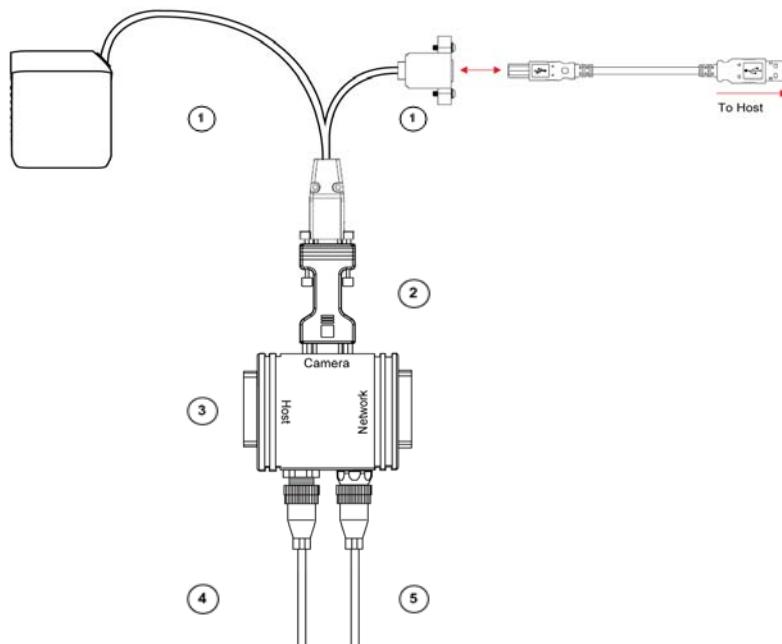
| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000048-01 | Mounting Arm/Adapter Kit, 4 inch, Vision MINI | €77 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, Vision MINI | €33 | A |
| 98-000053-01 | Extension Kit, 4 inch, Vision MINI | €39 | A |
| 98-000053-02 | Extension Kit, 3 inch, Vision MINI | €39 | A |
| 98-000060-01 | Kit, Bracket, Side Mount, Vision MINI | €22 | A |
| 98-000059-01 | Kit, Bracket, Angle Mount, Vision MINI | €22 | A |
| 98-000057-01 | Kit, Bracket, Through Hole Mount, Vision MINI | €22 | A |
| 98-000088-01 | Kit, Right Angle Mirror | €55 | A |
| 20-610024-01 | Trigger Connector for IB-131, 4-pin Plug | €33 | A |
| 20-610020-01 | Power Connector for IB-131, 3-pin Socket | €33 | A |
| 99-000055-01 | Accessory, Bracket, DOAL 50 to MINI | €209 | A |
| 99-000057-01 | Accessory, Bracket, DOAL 75 to MINI | €209 | A |
| 99-000059-01 | Accessory, Bracket, DOAL 100 to MINI | €209 | A |
| 99-000053-01 | Accessory, Bracket, R-60/70 to MINI | €116 | A |
| 99-000054-01 | Accessory, Bracket, R-100 to MINI | €116 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 99-000017-01 | Photo Sensor, Visible, NPN, Dark On | €193 | A |
| 99-000017-02 | Photo Sensor, Visible, NPN, Light On | €193 | A |
| 99-000019-01 | Photo Sensor, Visible, NPN, Light On, 5VDC | €193 | A |

Stand Alone USB

A single reader is connected directly to the host via USB.



System Matrix

| Item | Part Number | Description | List Price |
|------|----------------|--|------------|
| 1 | GMV-6300-2XXXG | Vision MINI Smart Camera and Included Cables | Varies |
| 2 | FIS-0001-0035G | IC-332 | € 165 |
| 3 | 99-000018-01 | Interface Module | € 165 |
| 4 | 97-100004-15 | Power Supply, 90-264 VAC, 24VDC USA /Euro Plug | € 138 |
| 5 | 99-000017-01 | Photo Sensor, Visible, NPN, DARK ON | € 193 |
| | 37-000010-01 | TOOLS DRIVE: User Documentation, Software | € 30 |

Vision HAWK Industrial Smart Camera



Integrated Lighting
WVGA CMOS mono
SXGA CCD mono
Ethernet and Serial Connectivity
IP-67
5 - 28 VDC
AutoVISION Software
Supports AutoVISION and Visionscape Software



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Vision HAWK Smart Camera

| Part Number | Description | List Price | Type |
|----------------|---|------------|------|
| GMV-6800-1110G | Vision HAWK Smart Camera WVGA Built in Light, AutoVISION, 15 Degree Lens | €2,936 | P |
| GMV-6800-1210G | Vision HAWK Smart Camera WVGA Built in Light, AutoVISION, 30 Degree Lens | €2,936 | P |
| GMV-6800-1310G | Vision HAWK Smart Camera WVGA Built in Light, AutoVISION, 45 Degree Lens | €2,936 | P |
| GMV-6800-1112G | Vision HAWK Smart Camera WVGA Built in Light, AutoVISION + Visionscape, 15 Degree Lens | €3,370 | P |
| GMV-6800-1212G | Vision HAWK Smart Camera WVGA Built in Light, AutoVISION + Visionscape, 30 Degree Lens | €3,370 | P |
| GMV-6800-1312G | Vision HAWK Smart Camera WVGA Built in Light, AutoVISION + Visionscape, 45 Degree Lens | €3,370 | P |
| GMV-6800-1100G | Vision HAWK Smart Camera SXGA Built in Light, AutoVISION, 15 Degree Lens | €3,110 | P |
| GMV-6800-1200G | Vision HAWK Smart Camera SXGA Built in Light, AutoVISION, 30 Degree Lens | €3,110 | P |
| GMV-6800-1300G | Vision HAWK Smart Camera SXGA Built in Light, AutoVISION, 45 Degree Lens | €3,110 | P |
| GMV-6800-1102G | Vision HAWK Smart Camera SXGA Built in Light, AutoVISION + Visionscape, 15 Degree Lens | €3,543 | P |
| GMV-6800-1202G | Vision HAWK Smart Camera SXGA Built in Light, AutoVISION + Visionscape, 30 Degree Lens | €3,543 | P |
| GMV-6800-1302G | Vision HAWK Smart Camera SXGA Built in Light, Auto Vision + Visionscape, 45 Degree Lens | €3,543 | P |
| GMV-6800-1010G | Vision HAWK, WVGA, 0.4MP, AutoVISION, C-Mount | €2,763 | P |
| GMV-6800-1012G | Vision HAWK, WVGA, 0.4MP, AutoVISION + Visionscape, C-Mount | €3,196 | P |
| GMV-6800-1000G | Vision HAWK, SXGA, 1.3MP, AutoVISION, C-Mount | €2,936 | P |
| GMV-6800-1002G | Vision HAWK, SXGA, 1.3MP, AutoVISION + Visionscape, C-Mount | €3,370 | P |

Note WVGA - 752 x 480 pixels, SXGA 1280 x 960 pixels

Software

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-000217-01 | AutoVISION to Visionscape Upgrade | €420 | A |
| 99-000047-01 | Annual Software Maintenance Plan, Visionscape* | €350 | A |
| 99-000048-01 | Annual Software Maintenance Plan, AutoVISION* | €300 | A |

* Applies to 12-month period following expiration of basic 1 year factory warranty. Contact Microscan for additional information.

Accessories

| Part Number | Description | List Price | Type |
|---------------|---|------------|------|
| 98-000143-01 | Adapter plate kit, QX Hawk to Quadrus EZ, MS-9 or HE1500 mounting | €55 | A |
| 98-000144-01 | Right angle mirror kit, QX Hawk | €85 | A |
| 98-000146-01 | Window replacement, QX Hawk | €35 | A |
| 98-000147-01 | 15° Lens kit, QX Hawk | €135 | A |
| 98-000147-02 | 30° Lens kit, QX Hawk | €135 | A |
| 98-000147-03 | 45° Lens kit, QX Hawk | €135 | A |
| 98-000205-01 | Glass window kit with IR Filter | €135 | A |
| 98-000206-01 | Glass window kit | €70 | A |
| 98-000148-01 | L bracket kit, QX Series | €45 | A |
| 98-000215-01* | Demo Kit, AutoVISION - supports Vision MINI and Vision HAWK | €495 | * |

* This Demo Kit does not contain a reader and is discounted 25%. The separately purchased reader is discounted 60%.

Prices and Specifications Subject to Change

Tel: 425.226.5700
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€100 Minimum Order
07-0000001-02 Rev AG
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Vision HAWK Accessories Continued

QX-1 and Cordsets

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| 98-000103-02 | QX-1 Interface Device | €151 | A |
| 61-000148-01 | QX Cordset, Common, M12 12 Pin, Socket(Ultraock) to M12 12 Pin, Plug(Ultraock), 3M | €57 | A |
| 61-000148-02 | QX Cordset, Common, M12 12 Pin, Socket(Screw-on) to M12 12 Pin Plug(Screw-on), 3M | €53 | A |
| 61-000162-01 | QX Cordset, Common, M12 12 Pin, Socket(Ultraock) to M12 12 Pin, Plug(Ultraock), 1M | €53 | A |
| 61-000162-02 | QX Cordset, Common, M12 12 Pin, Socket(Screw-on) to M12 12 Pin Plug(Screw-on), 1M | €49 | A |
| 61-000153-01 | QX Cordset, Host, Serial, M12 12 Pin Socket(Ultraock) to DB9 Socket, 1M | €53 | A |
| 61-000153-02 | QX Cordset, Host, Serial M12 12 pin Socket(Screw-on) to DB9 Socket, 1M | €49 | A |
| 61-000164-01 | QX Cordset, Host, Serial, M12 12 pin Socket(Ultraock) to DB9 Socket, 3M | €57 | A |
| 61-000164-02 | QX Cordset, Host, Serial, M12 12 pin Socket(Screw-on) to DB9 Socket, 3M | €53 | A |
| 61-000152-01 | QX Cordset, Host, Serial M12 12 pin Plug(Ultraock) to DB9 Socket, 1M | €53 | A |
| 61-000152-02 | QX Cordset, Host, Serial, M12 12 pin Plug (Screw-down) to DB9 Socket, 1M | €49 | A |
| 61-000165-01 | QX Cordset, Host, Serial M12 12 pin Plug(Ultraock) to DB9 Socket, 3M | €57 | A |
| 61-000165-02 | QX Cordset, Host, Serial M12 12 pin Plug(Screw-on) to DB9 Socket, 3M | €57 | A |
| 61-000163-01 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Ultraock) to RJ45, 3M | €57 | A |
| 61-000163-02 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Screw-on) to RJ45, 3M | €57 | A |
| 61-000160-01 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Ultraock) to RJ45, 1M | €53 | A |
| 61-000160-02 | QX Cordset, Host, Ethernet, M12 8 pin Plug(Screw-on) to RJ45, 1M | €49 | A |
| 61-000161-01 | QX Cordset, M12 12 pin Plug(Ultraock) to MS-5100, 3M | €57 | A |
| 61-000161-02 | QX Cordset, M12 12 pin Plug(Screw-on) to MS-5100, 3M | €53 | A |
| 61-000172-01 | QX Cordset, M12 12 pin Plug(Ultraock) to M12 12 pin Socket(Ultraock) to DB25 Plug | €215 | A |
| 61-000158-03 | QX Cordset, M12 12 Pin Plug & Socket(Ultraock) to MS-Connect 210, RS-232, 2M | €176 | A |
| 61-000158-04 | QX Cordset, M12 12 Pin Plug & Socket(Ultraock) to MS-Connect 210, RS-422/485, 2M | €176 | A |
| 61-000166-01 | QX Cordset, M12 12 Pin Plug(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000166-02 | QX Cordset, M12 12 Pin Plug(Screw-on) to Flying Leads, 3M | €53 | A |
| 61-000167-01 | QX Cordset, M12 12 Pin Socket(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000167-02 | QX Cordset, M12 12 Pin Socket(Screw-on) to Flying Leads, 3M | €53 | A |
| FIS-0210-0001G | MS-Connect 210, Connectivity Box with Display | €650 | A |
| FIS-0210-0002G | MS-Connect 210, Connectivity Box | €420 | A |
| FIS-0210-0003G | MS-Connect 210, Connectivity Box with Display and Ethernet | €725 | A |
| FIS-0210-0004G | MS-Connect 210, Connectivity Box with Ethernet | €650 | A |
| 98-000013-04 | Relay Module, 120VAC, 3 Amp Output, Series 70, Type SM, for MS-Connect 210 | €52 | A |
| 98-000013-05 | Relay Module, 240VAC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |
| 98-000013-06 | Relay Module, 24VDC, 3 Amp Output, Series 70, Type SM for MS-Connect 210 | €52 | A |
| 61-000204-01 | ASSY, CABLE, POWER SMART SERIES TO QX-1 | €165 | A |

Power Supplies

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 97-000003-01 | QX Power Supply, M12 12 pin Socket, 1.3m | €88 | A |
| 97-000003-02 | QX Power Supply, M12 12 pin Plug, 1.3m | €88 | A |

Package Detector/Sensor

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 99-000020-02 | QX Photo sensor, M12 4pin Plug, NPN, Dark On, 2m | €193 | A |
| 99-000020-01 | QX Photo sensor, M12 4pin Plug, NPN, Dark Off, 2m | €193 | A |

Mounting and Connectors

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-500006-01 | Mounting Plate Kit, Flat, Custom Surfaces * | €22 | A |
| 61-000166-01 | QX Cordset, M12 12 Pin Plug(Ultraock) to Flying Leads, 3M | €57 | A |
| 61-000167-01 | QX Cordset, M12 12 Pin Socket(Ultraock) to Flying Leads, 3M | €57 | A |
| 20-610024-01 | Trigger Connector, 4-pin Plug (screw terminal and field wireable) (for self wiring) | €33 | A |
| 98-000037-01 | Extension Kit, All Scanners, 6 inch | €61 | A |
| 98-000054-01 | Kit, Mounting Stand Base Plate, Small | €33 | A |
| 98-000016-01 | Mounting Arm/Adapter Kit, MS-820/QX-830/QX-870, 6 inch | €99 | A |
| 99-000056-01 | Accessory, Bracket, DOAL 50 to QX Hawk | €209 | A |
| 99-000058-01 | Accessory, Bracket, DOAL 75 to QX Hawk | €209 | A |
| 99-000060-01 | Accessory, Bracket, DOAL 100 to QX Hawk | €209 | A |
| 99-000050-01 | Accessory, Bracket, R-100 TO QX Hawk | €116 | A |
| 99-000052-01 | Accessory, Bracket, R-60/70 TO QX Hawk | €116 | A |
| 99-000061-01 | Accessory, Bracket, DOAL to C-MOUNT QX Hawk | €165 | A |
| 99-000049-01 | Accessory, Bracket, R-100 TO C-MOUNT QX Hawk | €116 | A |
| 99-000051-01 | Accessory, Bracket, R-60/70 TO C-MOUNT QX Hawk | €116 | A |

* Though-hole mounting plate; not for use with mounting arm.

Prices and Specifications Subject to Change

€100 Minimum Order

07-0000001-02 Rev AG

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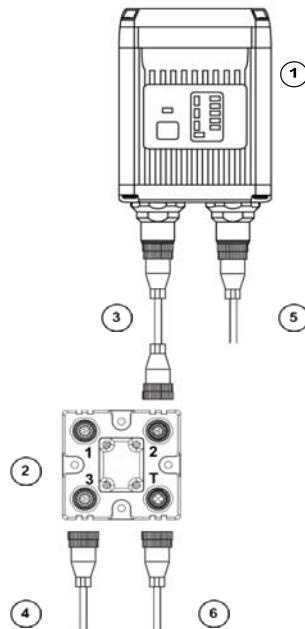
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Tech Reference Vision HAWK



System Matrix

| Item | Part Number | Description | List Price |
|------|----------------|--|------------|
| 1 | GMV-6800-1XXXG | Vision Hawk Smart Camera | Varies |
| 2 | 98-000103-02 | QX-1 Interface Device | €151 |
| 3 | 61-000162-01 | QX Cordset, Common, M12 12-pin Plug to M12 12-pin Socket, 1m * | €53 |
| 4 | 97-000003-01 | QX Power Supply, M12 12-pin Socket, 1.3m | €88 |
| 5 | 61-000160-01 | QX Cordset, Host, Ethernet, M12 8-pin Plug to RJ45, 1m * | €53 |
| 6 | 99-000020-02 | QX Photo Sensor, M12 4-pin Plug, NPN, Dark On, 2m | €193 |
| | 37-000010-01 | TOOLS DRIVE: User Documentation, Software | €30 |

* Cordsets available in multiple lengths

VS-1 Smart Camera

| | |
|------------|--|
| Model | VS-1 Smart Camera 1610TS - VGA without Intellifind |
| Model | VS-1 Smart Camera 1610TIS - VGA with Intellifind |
| Model | VS-1 Smart Camera 1610TH - XGA without Intellifind |
| Model | VS-1 Smart Camera 1610TIH - XGA with Intellifind |
| Memory | 128M System and 32M Flash |
| Imaging | CCD, Progressive Scan, Full Frame and Partial Scan |
| Frame Rate | 60 fps at VGA, 30 fps at XGA |
| Resolution | 648x494 VGA, 1024 x 768 XGA |



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

VS-1 Smart Camera

| Part Number | Description | List Price | Type |
|-----------------|--|------------|------|
| GMV-0HT16-0CM1G | SMARTCAM VS-1 1610TS STD RES INCLUDES VISIONSCAPE - NO INTELLIFIND | € 4,160 | P |
| GMV-0HF16-0CM1G | SMARTCAM VS-1 1610TIS STD RES INCLUDES VISIONSCAPE & INTELLIFIND | € 4,560 | P |
| GMV-1HT16-0CM1G | SMARTCAM VS-1 1610TH HIGHRES NO INTELLIFIND | € 5,400 | P |
| GMV-1HF16-0CM1G | SMARTCAM VS-1 1610TIH HR & INTELLIFIND | € 5,840 | P |
| 98-000214-01 | Starter Kit, no VS-1 Camera, Lenses, P/S, Ring Light, Cbls, Demo Stand | € 1,430 | * |

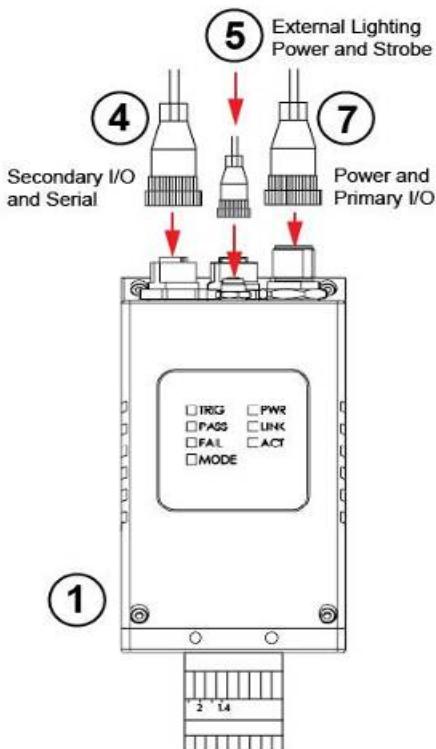
* This Demo Kit does not contain a VS-1 and is discounted 25%. The separately purchased reader is discounted 60%.

Accessories

| Part Number | Description | List Price | Type |
|---------------|--|------------|------|
| 98-HT00-0CD2 | VS-1 SERIAL COMM CABLE M12-8 - DB9 2M | € 144 | A |
| 98-HT00-0CE0 | VS-1 CABLE – ETHERNET HAWKEYE M12 TO RJ45 10M | € 104 | A |
| 98-HT00-0CE2 | VS-1 CABLE – ETHERNET HAWKEYE M12 TO RJ45 2M | € 68 | A |
| 98-HT00-0CL5 | VS-1 LIGHTING CABLE M5 TO PIGTAIL 5M | € 72 | A |
| 98-HT00-0CM1 | VS-1 CAMERA MOUNT ADAPTER M6 & 1/4 19 | € 68 | A |
| 98-HT00-0CM2 | VS-1 MOUNT ADAPTER BACK COMPATIBLE TO HE1600 - EXTRA RIDGID MOUNT | € 176 | A |
| 98-HEDSL | HAWKEYE 1500/1600 DEMO STAND W/LG SHAFT | € 217 | A |
| 98-HT00-0CP0 | VS-1 POWER + IO M12-8 TO PIGTAIL 10M | € 128 | A |
| 98-HT00-0CS0 | VS-1 SERIAL+SECIO M12-8 - PIGTAIL 10M | € 128 | A |
| 98-HT00-0LD1 | DOAL 50 LIGHT W VS-1 DIRECT CONNECT - | € 640 | A |
| 98-HT00-0LF1 | NER DF100 LIGHT W VS-1 DIRECT CONNECT | € 576 | A |
| 98-HT00-0LM1 | VS-1 MOUNT FOR NER DOAL & DF100 LIGHT | € 472 | A |
| 98-HT00-0LR1 | NER R60 LIGHT W VS-1 DIRECT CONNECT - | € 404 | A |
| 98-HT00-0PS0 | VS-1 POWER SUPPLY KIT UNIVERSAL AC TO M12 | € 216 | A |
| 98-HT00-0TA1 | VS-1 IP67 VS100 GLASS LENS PROTECTION TUBE W/ADAPTER | € 396 | A |
| 98-HT00-0TA2 | VS-1 IP67 VS100 NON-GLASS LENS PROTECTION TUBE W/ADAPTER | € 396 | A |
| 98-HT00-0LP1G | VS-1 DIRECT CONNECT PHARMA LIGHT WHITE DARK FIELD STROBE 1.5 x 2 IN. FOV | € 744 | A |

Stand Alone RS232

A single reader is connected directly to the host.

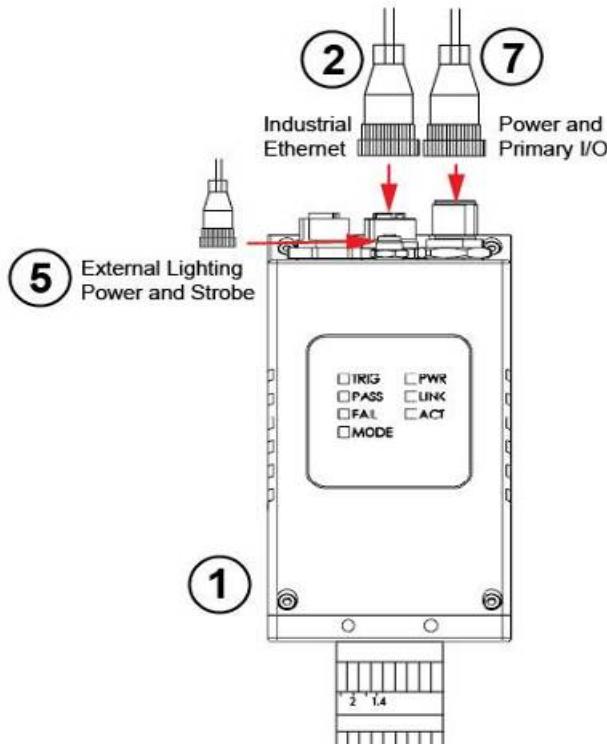


System Matrix

| Product | Part Number | Description | List Price |
|--------------------|-----------------|---|------------|
| (1) VS-1 | GMV-XHX16-0CM0G | VS-1 Smart Camera | Varies |
| (3) Comm Cable | 98-HT00-0CD2 | Serial Communication Cable, M12-to-DB9, 2 meters | €144 |
| (4) I/O Cable | 98-HT00-0CS0 | Secondary I/O and Serial Cable, M12-to-Pigtail, 10 meters | €128 |
| (5) Lighting Cable | 98-HT00-0CL5 | Lighting Cable, M5-to-Pigtail, 5 meters | €72 |
| (6) Power Supply | 98-HT00-0PS0 | PowerSupply Kit, Universal AC-to-M12 | €216 |
| (7) Power Cable | 98-HT00-0CP0 | Power and Primary I/O Cable, M12-to-Pigtail, 10 meters | €128 |

Stand Alone Ethernet

A single reader is connected directly to the host via Ethernet.



System Matrix

| Product | Part Number | Description | List Price |
|--------------------|-----------------|---|------------|
| (1) VS-1 | GMV-XHX16-0CM0G | VS-1 Smart Camera | Varies |
| (2) Ethernet Cable | 98-HT00-0CE0 | Industrial Ethernet Cable, M12-to-RJ45, 10 meters | €104 |
| | 98-HT00-0CE2 | Industrial Ethernet Cable, M12-to-RJ45, 2 meters | €68 |
| (4) I/O Cable | 98-HT00-0CS0 | Secondary I/O and Serial Cable, M12-to-Pigtail, 10 meters | €128 |
| (5) Lighting Cable | 98-HT00-0CL5 | Lighting Cable, M5-to-Pigtail, 5 meters | €72 |
| (6) Power Supply | 98-HT00-0PS0 | PowerSupply Kit, Universal AC-to-M12 | €216 |
| (7) Power Cable | 98-HT00-0CP0 | Power and Primary I/O Cable, M12-to-Pigtail, 10 meters | €128 |

Visionscape GigE Solution

Rapid Application Development

Up to 8 Microscan GigE Cameras
Consult factory for 3rd party GigE Camera support



Flexible IO

PC Based discrete IO
Strobe and Trigger at camera



Out of Box Experience

Evaluation and Off-Line Programming is license free

Platforms and Customization

XP and Vista
Microsoft Visual Studio 6 and .NET

****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Visionscape Software

| Part Number | Description | List Price | Type |
|---------------|--|------------|------|
| GMV-VGL0-0DD0 | Visionscape GigE License | €2,500 | P |
| GMV-VGL0-1DD0 | Visionscape GigE License with Intellifind | €2,920 | P |
| GMV-VGL1-1DD0 | Visionscape GigE License with Intellifind + 1 Third Party GigE Cameras | €3,045 | P |
| GMV-VGL2-1DD0 | Visionscape GigE License with Intellifind + 2 Third Party GigE Cameras | €2,670 | P |
| GMV-VGL4-1DD0 | Visionscape GigE License with Intellifind + 4 Third Party GigE Cameras | €4,920 | P |
| GMV-VGL8-1DD0 | Visionscape GigE License with Intellifind + 8 Third Party GigE Camera | €7,425 | P |

GigE Cameras

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000115-01 | Visionscape GigE Camera - VGA Mono CCD (CMG03 - 656 x 494 pixels) | €1,005 | A |
| 98-000116-01 | Visionscape GigE Camera - VGA Color CCD (CMG03C - 656 x 494 pixels) | €1,005 | A |
| 98-000141-01 | Visionscape GigE Camera - VGA Mono CCD - 1/2 in sensor (CMG04 - 656 x 494 pixels) | €1,335 | A |
| 98-000117-01 | Visionscape GigE Camera - 0.8MP XGA Mono CCD (CMG08 - 1032 x 776 pixels) | €1,335 | A |
| 98-000118-01 | Visionscape GigE Camera - 1.3MP SXGA Mono CCD (CMG13 - 1392 x 1040 pixels) | €1,870 | A |
| 98-000191-01 | Visionscape GigE Camera - SXGA Mono CCD - 2/3 ins. Sensor (CMG14 - 1392 x 1040 pixels) | €3,040 | A |
| 98-000119-01 | Visionscape GigE Camera - 2MP UXGA Mono CCD (CMG20 - 1624 x 1236 pixels) | €2,411 | A |
| 98-000189-01 | Visionscape GigE Camera - 2MP UXGA Color CCD (CMG20c - 1624 x 1236 pixels) | €2,411 | A |
| 98-000120-01 | Visionscape GigE Camera - 5MP QSXGA Mono CCD (CMG50 - 2487 x 2050 pixels) | €4,160 | A |
| 98-000190-01 | Visionscape GigE Camera - 5MP QSXGA Color CCD (CMG50c - 2448 x 2050 pixels) | €4,160 | A |
| 98-000121-01 | Visionscape GigE Camera - VGA Mono CCD - Power over Ethernet (CMG03-P 656 x 494 pixels) | €1,250 | A |

Accessories

| Part Number | Description | List Price | Type |
|----------------|--|------------|------|
| 98-000130-01 | PCIe DIO Card 16in/16out Isolated w cable and terminal (Current Sinking -NPN) | €530 | A |
| 98-000142-01 | PCIe DIO Card 16in/16out Isolated w cable and terminal (Current Sourcing -PNP) | €580 | A |
| 98-000140-01 | Single Port GigE Network Interface Card PCIe | €92 | A |
| 98-000132-01 | Dual Port GigE Network Interface Card PCIe | €292 | A |
| 98-000131-01 | GigE 5 Port Switch with Jumbo Packet Support | €92 | A |
| 98-000138-01 | Visionscape GigE Camera Power Supply 24v 100-250v 50-60 Hz | €88 | A |
| 98-000126-01 | Visionscape GigE Camera Strobe/Trigger M8-4 to Pigtail 5m | €71 | A |
| 98-000129-01 | Visionscape GigE Camera Power Cable M8-3 to Pigtail 5m | €54 | A |
| 98-000133-01 | CAT6 Ethernet Cable Jack Screws to RJ45 High Flex 2 m | €63 | A |
| 98-000134-01 | CAT6 Ethernet Cable Jack Screws to RJ45 High Flex 5 m | €79 | A |
| 98-000124-01 | GigE 4 Port Switch - Power over Ethernet (PoE) Injection | €639 | A |
| 98-000125-01 | GigE Power Midspan Power Injector - 2 inputs & 2 outputs | €363 | A |
| 98-000139-01** | Visionscape GigE Demo Kit - SW Lic, VGA CCD Cmra, P/S, Trig Cble, Ethnt Cble, Lens | €3,535 | ** |
| 98-000199-01* | Visionscape GigE Demo Kit - SW Lic, No Camera, P/S, Trig Cble, Ethnt Cble, Lens | €2,926 | * |

** Demo Kit contains Camera. Kit is discounted 25%.

* This Demo Kit does not contain a camera and is discounted 25%. The separately purchased reader is discounted 60%.

Machine Vision Systems**

Visionscape PC Board and Software**



| Frame Grabbers | | | |
|---|--|---|---|
| The Visionscape frame grabbers are used to capture images from a variety of machine vision cameras into the host PC memory. All Visionscape frame grabber boards offer on-board dedicated digital I/O for triggering, strobe control and general purpose I/O. | | | |
| Board Selector Guide | | x740 Series Analog Frame Grabber | x800 Series Digital CameraLink Frame Grabber |
| Camera Interface Options | | <ul style="list-style-type: none"> for applications that require up to four progressive scan analog cameras that require higher resolutions or higher speeds that require simultaneous image acquisition on up to four channels that require different camera resolutions | <ul style="list-style-type: none"> for applications that require high-speed and/or high-resolution area scan cameras that require line scan cameras |
| System Components | Every Visionscape Oxxx frame grabber package contains the following components: <ul style="list-style-type: none"> Frame grabber board Connection kit for external I/O board 50-pin ribbon cable and I/O filter board with bezel Internal power cable to connect to the PC internal 12V power supply; required to supply 12V power to analog cameras Camera splitter adapter for up to four cameras (only in 0300 & 0740 board packages) Visionscape Software (latest version) and complete documentation on CD | | |
| PC Requirements | <ul style="list-style-type: none"> Pentium 4, 2.4 GHz or higher with a minimum of 256 MB memory VGA display adapter - 64K or true color Microsoft Windows 2000 SP4 or Microsoft Windows XP SP2 or later One open +5 V/32 bit PCI 2.2 compliant expansion slot (half length) Important note for 0800 board: The additional connector fingers of the board's Universal PCI extend beyond PCI standard connector. This does not affect the board's functioning. Alternative for 0800 board only: One open +3.3 V/64 bit Universal PCI 2.3 compliant expansion slot (half length) - The usage of the Universal PCI bus allows the 0800 board a faster data transfer to the host PC's CPU and memory. If I/O is required: one open slot for internal I/O | | |

****Important Pricing Discount Note** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.**

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Visionscape PC Boards and Software

| Part Number | Description | List Price | Type |
|---------------|---|------------|------|
| GMV-VS74-0FP0 | VISIONSCAPE 0740 PCI BOARD, INCLUDES VISIONSCAPE SOFTWARE | €6,095 | P |

Visionscape Board Accessories

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-S00-0SW1 | VISIONSCAPE SOFTWARE V3.7 CD | €37 | A |
| GMV-S00-1KF0 | INTELLIFIND PARALLEL PORT DONGLE | €980 | A |
| GMV-S00-1KS0 | VISIONSCAPE PARALLEL PORT DONGLE | €3,439 | A |
| GMV-S00-2KF0 | INTELLIFIND USB DONGLE - ADDS INTELLIFIND TOOL FOR VISIONSCAPE BOARDS | €980 | A |
| GMV-S00-2KS0 | VISIONSCAPE 3.7 USB DONGLE - REQ'D FOR OFFLINE PROGRAMMING W VS3.7 | €3,439 | A |

Machine Vision Accessories*



Important Pricing Discount Note* Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

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Machine Vision Hardware Accessories

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-A1203701 | MINI OPTO I/O BOARD W/PLUG&HOOD | €473 | A |
| 98-97700071 | FIBER OPTIC LIGHT GUIDE 1" X 6' LG | €931 | A |
| 98-97700061 | OUTPUT MODULE G4 | €233 | A |
| 98-VS00-1SM0 | G4 INPUT MODULE WITH SWITCH | €59 | A |
| 98-VS00-2SM0 | G4 OUTPUT MODULE WITH SWITCH | €59 | A |
| 98-VS08-0EC0 | ENCODER CABLE FOR LINE SCAN SYNC | €142 | A |
| 98-VS10-0SM0 | INTERNAL PC 10-PT I/O & STROBE CNTRL BOARD | €473 | A |
| 98-VS16-1SM0 | G4 INPUT MODULE 2.5-16V DCM | €39 | A |
| 98-VS24-0SM0 | EXTERNAL I/O AND STROBE CNTRL BOARD KIT - 24 POINT | €1,053 | A |
| 98-VS28-1SM0 | G4 INPUT MODULE 2.5-28VDC (1MS/1.5MS RESP) | €39 | A |
| 98-VS28-2SM0 | G4 OUTPUT MODULE 24-280V AC | €39 | A |
| 98-VS32-1SM0 | G4 INPUT MODULE 10 - 32V DC | €39 | A |
| 98-VS60-2SM0 | G4 OUTPUT MODULE 5-60V DC | €39 | A |
| 98-001901251 | G4 INPUT MODULE 180-280 VAC (2MS/20MS) | €51 | A |
| 98-001901256 | G4 OUTPUT MODULE OPTO 0-100 VDC | €51 | A |
| 98-001904091 | CAL TARGET FOV (1.87 TO 3.0MM) | €1,100 | A |
| 98-001904092 | CAL TARGET FOV (2.80 TO 4.50MM) | €1,100 | A |
| 98-001904093 | CAL TARGET FOV (4.20 TO 6.75MM) | €1,100 | A |
| 98-001904094 | CAL TARGET FOV (6.34 TO 10.2MM) | €1,100 | A |
| 98-001904095 | CAL TARGET FOV (9.33 TO 15.0MM) | €1,100 | A |
| 98-001904096 | CAL TARGET FOV (14.0 TO 22.5MM) | €1,100 | A |
| 98-001904097 | CAL TARGET FOV (20.5 TO 33.0MM) | €1,100 | A |
| 98-001904098 | CAL TARGET FOV (47.3 TO 76.1MM) | €1,100 | A |
| 98-001904099 | CAL TARGET FOV (63.1 TO 101MM) | €1,100 | A |
| 98-001904100 | CAL TARGET FOV (94.7 TO 152MM) | €1,100 | A |
| 98-001904101 | CAL TARGET FOV (158 TO 254MM) | €1,100 | A |
| 98-001904175 | CAL TARGET FOV 30.8 TO 49.5MM | €1,100 | A |

Machine Vision Camera Accessories

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 98-030161702 | CBL,DIR BRKOUT TO 4 CAM D-SUB,6FT | €410 | A |
| 98-030161701 | CBL,DIR BRKOUT TO 4 CAM D-SUB,18" | €382 | A |
| 98-030161700 | CBL,DIR BRKOUT TO 4 CAM D-SUB 8" | €382 | A |
| 98-030161600 | CBL,DIR BRKOUT TO 2 CAM D-SUB 8" | €300 | A |
| 98-A1206395 | CAMERALINK SIGNAL CABLE 5 METER | €382 | A |
| 98-A1201502 | CAMERA VIDEO & POWER CABLE | €477 | A |
| 98-VS01-0CX0 | ANALOG CAMERA A33A VGA PROGRESSIVE SCAN | €852 | A |
| 98-VS03-1XC0 | HI-RES CAM VIDEO & PWR CBL - 10FT / 3M (FOR 98-VS01-0CX0 AND 98-VS31-0CX0) | €264 | A |
| 98-VS07-1XC0 | HI-RES CAM VIDEO & PWR CBL - 25FT / 7.5M (FOR 98-VS01-0CX0 AND 98-VS31-0CX0) | €292 | A |
| 98-VS15-1XC0 | HI-RES CAM VIDEO & PWR CBL - 50FT / 15M (FOR 98-VS01-0CX0 AND 98-VS31-0CX0) | €343 | A |
| 98-VS31-0CX0 | ANALOG CAMERA A152A SXGA PROGRESSIVE SCAN | €1,908 | A |

Machine Vision Optical Accessories

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-92800471 | 5MM EXTENSION TUBE FOR C-MOUNT LENSES | €32 | A |
| 98-C0206 | LENS EXTENSION TUBE SET 0.5, 1, 5, 10, 20, 40MM | €114 | A |
| 98-92800571 | LENS 8MM F/1.4-16, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800572 | LENS 12MM F/1.8-16, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800573 | LENS 16MM F/1.4-16, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800574 | LENS 25MM F/1.6-16, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800575 | LENS 35MM F/2.1-22, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800576 | LENS 50MM F/2.8-22, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800577 | LENS 75MM F/3.9-32, FT 25.5MM P 0.5MM, 2/3" C-MNT | €304 | A |
| 98-92800311 | LENS,SKYLIGHT UV FILTER 25.5.MM | €59 | A |
| 98-92800371 | POLARIZING FILTER 25.5MM THREAD | €79 | A |
| 98-92800372 | LENS, FILTER POLARIZING 27.0MM P0.4 | €79 | A |
| NER-92700592 | STROBE SOURCE X-400 1201-3600 PPM | €3,643 | A |

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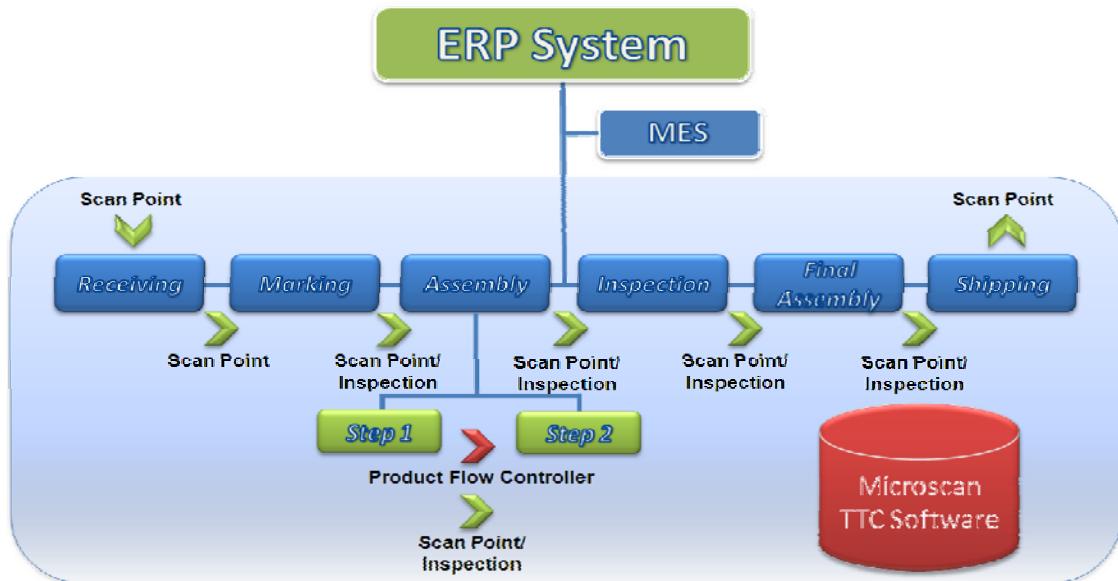
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Track Trace and Control Solutions Factory Monitoring and Traceability Software



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

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Refer to your Partner Agreement for the actual discount percentage by Product Type.

Demo Kits

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 37-000006-01 | Track, Trace and Control Software w/ 10 Scan Points, CD | €9,995 | A |
| 37-000006-02 | Track, Trace and Control Software, 10 Additional Scan Points | €995 | A |

Electronic Product Flow Controller



Demo Kits

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-000151-01 | Product Flow Controller | €1,995 | A |
| 61-000180-01 | Cable, Product Flow Controller to MS-3, MINI | €65 | A |
| 61-000181-01 | Cable, Product Flow Controller to QX Products | €75 | A |

Machine Vision Industry Solutions*

*EZ Match**



EZ MATCH COLOR

| Narrow bar-width | | Field of view (width) (maximum) | Read range |
|------------------|-----------------|------------------------------------|-----------------------------------|
| 1D | 2D | | |
| .005" (.13mm) | .0075" (.19 mm) | 4.2" (106.7 mm) | 3.6 to 4.5" (91.4 mm to 114.3 mm) |
| .0075" (.19 mm) | .010" (.25 mm) | 4.5" (114.3 mm) | 3.4 to 4.9" (86.4 mm to 124.5 mm) |
| .010" (.25 mm) | .015" (.38 mm) | 5.5" (139.7 mm) | 2.9 to 5.6" (73.7 mm to 142.2 mm) |

EZ MATCH

| Narrow bar-width | | Field of view (width) (maximum) | Read range |
|------------------|----------------|------------------------------------|-----------------------------------|
| 1D | 2D | | |
| .0075" (.19 mm) | .010" (.25 mm) | 4.2" (106.7 mm) | 3.3 to 4.5" (83.8 mm to 114.3 mm) |
| .010" (.25 mm) | .015" (.38 mm) | 4.5" (114.3 mm) | 2.75 to 5.0" (69.9 mm to 127 mm) |

Demo Kits

| Part Number | Description | List Price | Type |
|----------------|------------------------------|------------|------|
| FIS-0004-1000G | EZ MATCH, B&W, Serial | €1,995 | P |
| FIS-0004-1001G | EZ MATCH, 3MP, COLOR, Serial | €2,495 | P |

Note:

Visit MS-3 Laser section for stand alone configuration references

Visionscape I-Pak**



Visionscape I-PAK

| Part Number | Description | List Price | Type |
|-----------------|---|------------|------|
| GMV-IP74-0SE0 | I-PAK SE - Stainless Enclosure with IPC 677B Panel PC and Visionscape 0740 board. Requires UPS and Floor or Shelf mount kit | €24,750 | P |
| GMV-IP81-0SE0 | I-PAK SE - Stainless Enclosure with IPC 677B Panel PC and Visionscape 0800 board. Requires UPS and Floor or Shelf mount kit | €24,750 | P |
| GMV-IP74-0SK0 | I-PAK SK with Visionscape 0740 board for analog cameras | €7,200 | P |
| GMV-IP81-0SK0 | I-PAK SK with Visionscape 0800 board for analog cameras | €7,200 | P |
| GMV-0HF16-0HE1G | SMARTCAM VS-1 1610TIS STD RES, INTELLIFIND FOR I-PAK HE | €4,114 | P |
| GMV-1HF16-0HE1G | SMARTCAM VS-1 1610TIH HIGH RES, INTELLIFIND FOR I-PAK HE | €5,489 | P |
| GMV-0HF16-0PS1G | VS-1 Pharma Track Trace Kit - VGA Smart Cam, Pharma Light, Lens, Cables, PS | €6,039 | P |
| GMV-1HF16-0PS1G | VS-1 Pharma Track Trace Kit - High Res Smart Cam, Pharma Light, Lens, Cables, PS | €7,326 | P |
| GMV-IP16-0HE2 | I-PAK HE Pharma Industry 21 CFR part 11 GUI for VS-1 Smart Camera | €875 | P |

Visionscape I-PAK Accessories

| Part Number | Description | List Price | Type |
|--------------|---|------------|------|
| 98-209191 | UPS 230VAC, EU universal, with cables for I-PAK | €551 | A |
| 98-209181 | UPS 120VAC, US, with cables for I-PAK | €551 | A |
| 98-209211 | I-PAK SE Floor Stand - Stainless Column 1.5m | €3,214 | A |
| 98-209221 | I-PAK SE Shelf Mount System - Stainless | €2,296 | A |
| 98-200431 | I-PAK SE Tilt and Swivel Floor Stand | €2,296 | A |
| 98-209441 | I-PAK SE Adapter to Tilt and Swivel Floor Stand | €367 | A |
| 98-209241 | I-PAK SE Cable UPS to PC | €60 | A |
| 98-602151 | I-PAK SE UPS UK cable and plug for 220VAC 3m | €32 | A |
| 98-HT00-0LP1 | VS-1 Direct Connect Pharma Light White Dark Field Strobe 1.5 x 2 In. FOV | €776 | A |
| 98-A1200713 | PC Upgrade For VS I-PAK A1-20071 (Single VS0740 Board) | €11,924 | A |
| 98-A1209751 | Cbl, Adaptr, CA-XCHM To 98-VS01-0CX0 Or 98-VS31-0CX0 (Cam Upgrade Using Existing Cbl) | €253 | A |

MICROSCAN®

MS-96 Vial Reader



MS-96 Vial Reader

| Part Number | Description | List Price | Type |
|-------------|--|------------|------|
| FIS-VRKIT2 | VIAL READER WITH 25 FT INTERFACE CABLE | € 10,000 | P |
| FIS-VRKIT1 | VIAL READER WITH 10 FT INTERFACE CABLE | € 10,000 | P |

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NERLITE® SMART RING LIGHTS

NERLITE® Smart Series Ring lights use Hi-Brite LEDs and feature an integrated strobe controller for easy integration in industrial applications.



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

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Refer to your Partner Agreement for the actual discount percentage by Product Type.

| 60 mm | | List Price | Type |
|----------------------------|--|------------|------|
| Part Number | Description | | |
| NER-011660800G | Smart Series Ring Light 60MM, Red | €375 | P |
| NER-011660810G | Smart Series Ring Light 60MM, White | €440 | P |
| NER-011660820G | Smart Series Ring Light 60MM, Blue | €430 | P |
| NER-011660830G | Smart Series Ring Light 60MM, IR | €390 | P |
| NER-011660840G | Smart Series Ring Light 60MM, UV | €440 | P |
| 70 mm | | List Price | Type |
| NER-011660900G | Smart Series Ring Light 70MM, Red | €400 | P |
| NER-011660910G | Smart Series Ring Light 70MM, White | €470 | P |
| NER-011660920G | Smart Series Ring Light 70MM, Blue | €470 | P |
| NER-011660930G | Smart Series Ring Light 70MM, IR | €420 | P |
| NER-011660940G | Smart Series Ring Light 70MM, UV | €470 | P |
| 100 mm | | List Price | Type |
| NER-011661100G | Smart Series Ring Light 100MM, Red | €530 | P |
| NER-011661110G | Smart Series Ring Light 100MM, White | €630 | P |
| NER-011661120G | Smart Series Ring Light 100MM, Blue | €620 | P |
| NER-011661130G | Smart Series Ring Light 100MM, IR | €560 | P |
| NER-011661140G | Smart Series Ring Light 100MM, UV | €630 | P |
| Power Supply (60, 70, 100) | | List Price | Type |
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| 97-000006-01 | DSP100, 24VDC 4.2A DIN Mount Power Supply | €211 | A |
| Power Supply Cordsets | | List Price | Type |
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |
| 61-000186-01 | Cable 5 Pin M12 Female To Flying Leads, 3M | €54 | A |
| 61-000187-01 | Cable 5 Pin M12 Female to Flying Leads, 5M | €63 | A |

NERLITE® RING LIGHT ACCESSORIES

Note: For mounting and alternate focused optics use the following

| 60 mm Mounts and Optics | | List Price | Type |
|-------------------------|------------------------------------|------------|------|
| Part Number | Description | | |
| 99-000026-01 | R-60 FOCUSING LENS, F.L. = 70MM | €125 | A |
| 99-000026-02 | R-60 FOCUSING LENS, F.L. = 102MM | €125 | A |
| 99-000026-03 | R-60 FOCUSING LENS, F.L. = 127MM | €125 | A |
| 99-000025-01 | R-60 LENS ADAPTER, 25.5MM X 0.50MM | €55 | A |
| 99-000025-02 | R-60 LENS ADAPTER, 27.0MM X 0.50MM | €55 | A |
| 99-000025-03 | R-60 LENS ADAPTER, 30.5MM X 0.50MM | €55 | A |
| 99-000025-04 | R-60 LENS ADAPTER, 40.5MM X 0.50MM | €55 | A |
| 99-000025-05 | R-60 LENS ADAPTER, 46.0MM X 0.75MM | €55 | A |
| 70 mm Mounts and Optics | | List Price | Type |
| 99-000028-01 | R-70 FOCUSING LENS, F.L. = 70MM | €125 | A |
| 99-000028-02 | R-70 FOCUSING LENS, F.L. = 102MM | €125 | A |
| 99-000028-03 | R-70 FOCUSING LENS, F.L. = 127MM | €125 | A |
| 99-000027-01 | R-70 LENS ADAPTER, 25.5MM X 0.50MM | €55 | A |
| 99-000027-02 | R-70 LENS ADAPTER, 27.0MM X 0.50MM | €55 | A |
| 99-000027-03 | R-70 LENS ADAPTER, 30.5MM X 0.50MM | €55 | A |
| 99-000027-04 | R-70 LENS ADAPTER, 40.5MM X 0.50MM | €55 | A |

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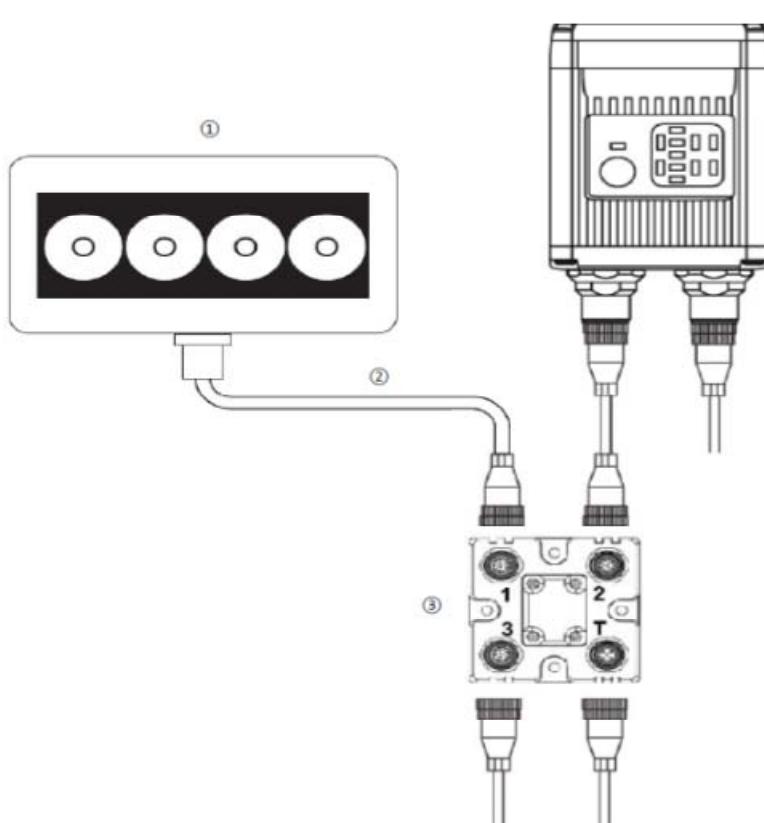
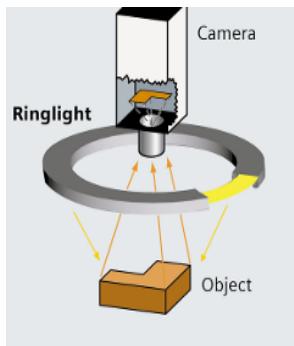
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100 mm Mounts and Optics

| | | | |
|--------------|-------------------------------------|------|---|
| 99-000030-01 | R-100 FOCUSING LENS, F.L. = 70MM | €125 | A |
| 99-000030-02 | R-100 FOCUSING LENS, F.L. = 102MM | €125 | A |
| 99-000030-03 | R-100 FOCUSING LENS, F.L. = 127MM | €125 | A |
| 99-000030-04 | R-100 FOCUSING LENS, F.L. = 152MM | €125 | A |
| 99-000029-01 | R-100 LENS ADAPTER, 25.5MM X 0.50MM | €55 | A |
| 99-000029-02 | R-100 LENS ADAPTER, 27.0MM X 0.50MM | €55 | A |
| 99-000029-03 | R-100 LENS ADAPTER, 30.5MM X 0.50MM | €55 | A |
| 99-000029-04 | R-100 LENS ADAPTER, 40.5MM X 0.50MM | €55 | A |

Ring Light Camera Mounting Brackets

| | | | |
|--------------|--|------|---|
| 99-000050-01 | ACCESSORY, BRACKET, R-100 TO QX Hawk | €116 | A |
| 99-000052-01 | ACCESSORY, BRACKET, R-60/70 TO QX Hawk | €116 | A |
| 99-000053-01 | ACCESSORY, BRACKET, R-60/70 TO MINI | €116 | A |
| 99-000054-01 | ACCESSORY, BRACKET, R-100 TO MINI | €116 | A |
| 99-000049-01 | ACCESSORY, BRACKET, R-100 TO C-MOUNT QX Hawk | €116 | A |
| 99-000051-01 | ACCESSORY, BRACKET, R-60/70 TO C-MOUNT QX Hawk | €116 | A |

Tech Reference Ring Lights

| Item | Description | Part # |
|------|-----------------------------------|--------------|
| 1 | Smart Series Light | Various |
| 2 | Cable, Power Smart Series to QX-1 | 61-000204-01 |
| 3 | QX-1 Interface Device | 98-000103-02 |

Note: This configuration does not support Daisy Chaining.
Powering more than 1 light via the QX-1 will exceed the QX-1's current capacity.

MICROSCAN.

NERLITE® SMART DOAL® LIGHTS

NERLITE® Smart Series DOAL lights use HI-Brite LEDs and feature an integrated strobe controller for easy integration in industrial applications.



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Refer to your Partner Agreement for the actual discount percentage by Product Type.

| 25 mm | | List Price | Type |
|---|--|------------|------|
| Part Number | Description | | |
| NER-011660400G | Smart Series DOAL 25MM, Red | | P |
| NER-011660410G | Smart Series DOAL 25MM, White | | P |
| NER-011660420G | Smart Series DOAL 25MM, Blue | | P |
| NER-011660430G | Smart Series DOAL 25MM, IR | | IR |
| 50 mm | | | |
| NER-011660500G | Smart Series DOAL 50MM, Red | | P |
| NER-011660510G | Smart Series DOAL 50MM, White | | P |
| NER-011660520G | Smart Series DOAL 50MM, Blue | | P |
| NER-011660530G | Smart Series DOAL 50MM, IR | | IR |
| 75 mm | | | |
| NER-011660600G | Smart Series DOAL 75MM, Red | | P |
| NER-011660610G | Smart Series DOAL 75MM, White | | P |
| NER-011660620G | Smart Series DOAL 75MM, Blue | | P |
| NER-011660630G | Smart Series DOAL 75MM, IR | | IR |
| 100 mm | | | |
| NER-011660700G | Smart Series DOAL 100MM, Red | | P |
| NER-011660710G | Smart Series DOAL 100MM, White | | P |
| NER-011660720G | Smart Series DOAL 100MM, Blue | | P |
| NER-011660730G | Smart Series DOAL 100MM, IR | | IR |
| Power Supply (25, 50 mm) | | | |
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | | A |
| 97-000006-01 | Power Supply DSP100 24VDC 4.2A DIN Mount | | A |
| Power Supply Cordsets and Cables | | | |
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | | A |
| 61-000186-01 | Cable 5 Pin M12 Female To Flying Leads, 3M | | A |
| 61-000187-01 | Cable 5 Pin M12 Female To Flying Leads, 5M | | A |
| *Note: Can also be used to control intensity of continuous lights | | | |
| DOAL Camera Mounting Brackets | | | |
| 99-000055-01 | ACCESSORY, BRACKET, DOAL 50 to MINI | | A |
| 99-000056-01 | ACCESSORY, BRACKET, DOAL 50 to QX Hawk | | A |
| 99-000057-01 | ACCESSORY, BRACKET, DOAL 75 to MINI | | A |
| 99-000058-01 | ACCESSORY, BRACKET, DOAL 75 to QX Hawk | | A |
| 99-000059-01 | ACCESSORY, BRACKET, DOAL 100 to MINI | | A |
| 99-000060-01 | ACCESSORY, BRACKET, DOAL 100 to QX Hawk | | A |
| 99-000061-01 | ACCESSORY, BRACKET, DOAL to C-Mount Hawk | | A |

Prices and Specifications Subject to Change

Tel: 425.226.5700
Fax: 425.226.8250

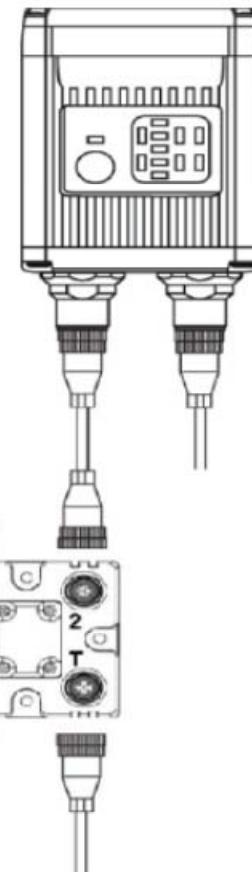
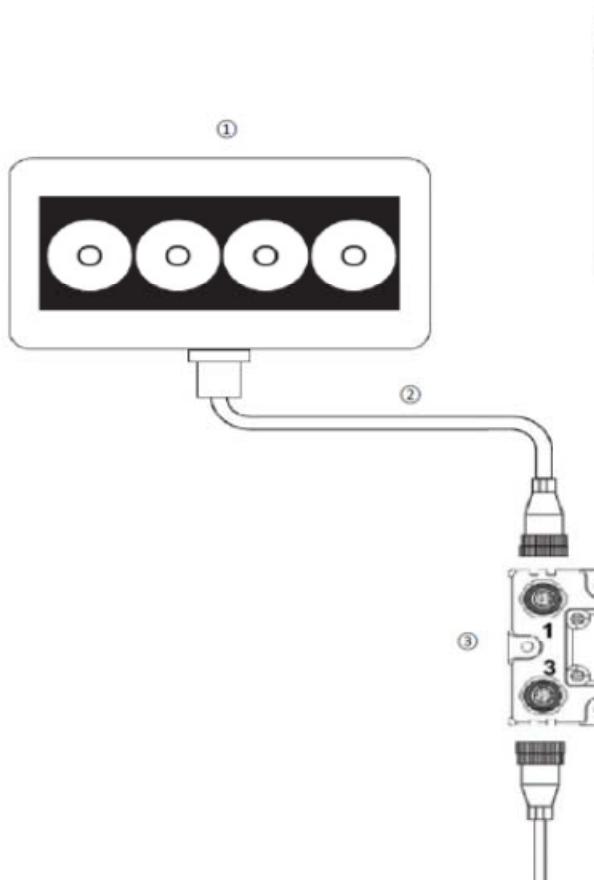
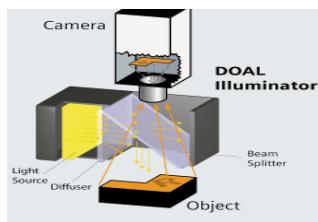
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Tech Reference DOAL Lights

Hardware Required

| Item | Description | Part Number |
|------|--|----------------|
| 1 | Smart Series Doal Lights | NER-011660XXXG |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 2 | Power Supply DSP100 24VDC 4.2A DIN Mount | 97-000006-01 |
| 3 | Cable 5 Pin M12 Female To Flying Leads, 3M | 61-000186-01 |
| 3 | Cable 5 Pin M12 Female To Flying Leads, 5M | 61-000187-01 |



| Item | Description | Part # |
|------|-----------------------------------|--------------|
| 1 | Smart Series Light | Various |
| 2 | Cable, Power Smart Series to QX-1 | 61-000204-01 |
| 3 | QX-1 Interface Device | 98-000103-02 |

Note: This configuration does not support Daisy Chaining.
Powering more than 1 light via the QX-1 will exceed the QX-1's current capacity.

MICROSCAN

NERLITE® CDI®

CDI's patented optics and integrated sphere technology yield an unrivaled self-contained continuous diffuse



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

CDI (Continuous Diffuse Illuminator)

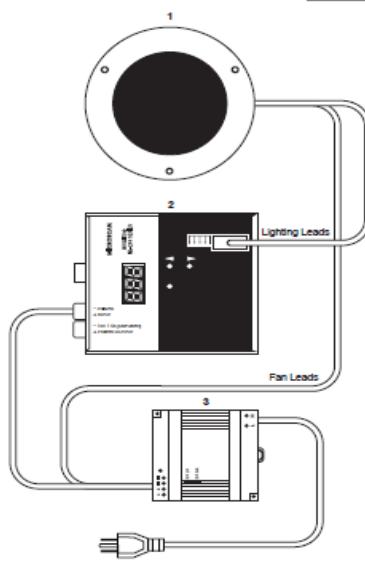
| Part Number | Description | List Price | Type |
|---------------------------------|---|------------|------|
| NER-011251500 | CDI-150/25, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €2,638 | P |
| NER-011251510 | CDI-150/25, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €2,772 | P |
| NER-011252000 | CDI-200/75, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €2,996 | P |
| NER-011252010 | CDI-200/75, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €3,131 | P |
| Power Supply/Controllers | | | |
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | €671 | A |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | €957 | A |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | €1,232 | A |
| Power Supply Cordsets | | | |
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |

*Note: Can also be used to control intensity of continuous lights

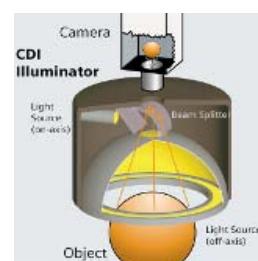
Tech Reference CDI Lights

Hardware Required

| Item | Description | Part Number |
|------|---|---------------|
| 1 | CDI Series Illuminators | NER-01125XXXX |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 3 | NL-200 Series Lighting Controller | 98-000152-0X |



CDI Calibration



1. After Installation, set both the On Axis Lighting (DOAL) and Off Axis Lighting (Ring/Dome) channels to 100% of their rated currents.

2. Reduce the current to the On Axis Lighting (DOAL) until the desired Image is displayed on your vision system.

Prices and Specifications Subject to Change

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MICROSCAN

HI-BRITES

HI-BRITES are designed to provide high intensity illumination over a large area.
HI-BRITES have an industrial design with IP67 enclosure and built in controller.



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Hi-Brite 300 mm

| PART # | DESCRIPTION | List Price | Type |
|----------------|-----------------------------|------------|------|
| NER-011660300G | HI-BRITE 300, Red, Narrow | €750 | P |
| NER-011660310G | HI-BRITE 300, White, Narrow | €790 | P |
| NER-011660301G | HI-BRITE 300, Red, Wide | €750 | P |
| NER-011660311G | HI-BRITE 300, White, Wide | €790 | P |

Hi-Brite 100 mm

| | | | |
|----------------|-----------------------------|------|---|
| NER-011660200G | HI-BRITE 100, Red, Narrow | €580 | P |
| NER-011660210G | HI-BRITE 100, White, Narrow | €625 | P |
| NER-011660201G | HI-BRITE 100, Red, Wide | €580 | P |
| NER-011660211G | HI-BRITE 100, White, Wide | €625 | P |

Hi-Brite 45 mm

| | | | |
|----------------|----------------------------|------|---|
| NER-011660100G | HI-BRITE 45, Red, Narrow | €333 | P |
| NER-011660110G | HI-BRITE 45, White, Narrow | €375 | P |
| NER-011660101G | HI-BRITE 45, Red, Wide | €333 | P |
| NER-011660111G | HI-BRITE 45, White, Wide | €375 | P |

Hi-Brite Cables (Not included with light)

| | | | |
|--------------|--|-----|---|
| 61-000184-01 | Cable, 5P M12 Male - 5P M12 Female, 1M, Shielded (for daisy chain) | €64 | A |
| 61-000185-01 | Cable, 5P M12 Male - 5P M12 Female, 3M, Shielded (for daisy chain) | €63 | A |
| 61-000186-01 | Cable, 5P M12 Female - Flying Leads, 3M, Shielded | €54 | A |
| 61-000187-01 | Cable, 5P M12 Female - Flying Leads, 5M, Shielded | €63 | A |

Power Supply

| | | | |
|---------------|--|------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| 97-000006-01 | DSP100 24VDC 4.2A DIN Mount Power Supply | €211 | A |

Power Supply Cordsets

| | | | |
|---------------|--|-----|---|
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |

Hardware Required

| Item | Description | Part Number |
|------|--|----------------|
| 1 | Hi-Brite Series Lights | NER-011660XXXG |
| 2 | Power Supply DSP100 24VDC 4.2A DIN Mount | 97-000006-01 |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 3 | Cable, 5P M12 Female To Flying Leads, 3M | 61-000186-01 |
| 3 | Cable, 5P M12 Female To Flying Leads, 5M | 61-000187-01 |
| 4 | Cable, 5P M12 Male To 5P M12 Female, 1M | 61-000184-01 |
| 4 | Cable, 5P M12 Male To 5P M12 Female, 3M | 61-000185-01 |

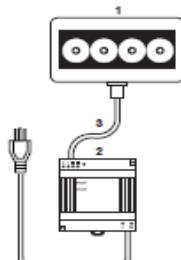


Figure A
Hi-Brite Series Illuminator
with power supply

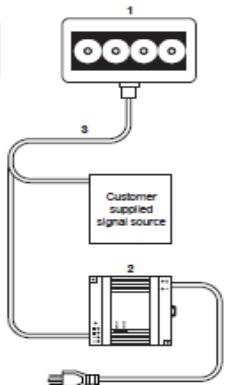


Figure B
Hi-Brite Series Illuminator
with customer supplied
dimming or on-off
signal source

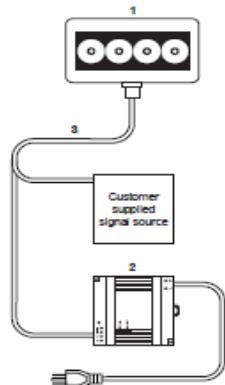


Figure C
Hi-Brite Series Illuminator
with customer supplied
strobe trigger signal source

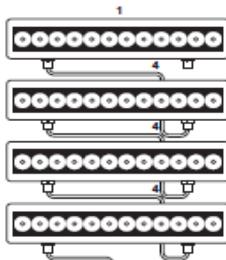
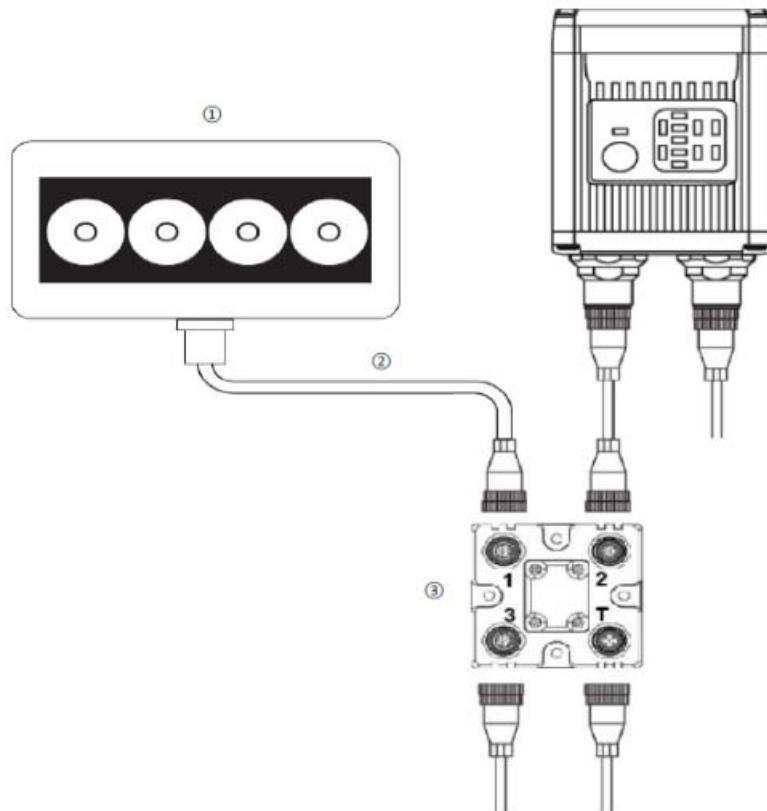


Figure D
Hi-Brite Series Illuminators in
a daisy chain configuration.
See figure A, B, or C for the
correct power supply and
signal connections for your
application.

T



| Item | Description | Part # |
|------|-----------------------------------|--------------|
| 1 | Smart Series Light | Various |
| 2 | Cable, Power Smart Series to QX-1 | 61-000204-01 |
| 3 | QX-1 Interface Device | 98-000103-02 |

Note: This configuration does not support Daisy Chaining.
Powering more than 1 light via the QX-1 will exceed the QX-1's current capacity.

AREA ARRAYS

Area Arrays are designed for non-specular surface lighting in applications that demand economical solutions.



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Note: For basic applications continuous lights only require a light + power supply

Area Arrays 50X50 Continuous

| PART # | DESCRIPTION | List Price | Type |
|---------------|---|------------|------|
| NER-011652115 | AR-50x50-HO, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €315 | P |
| NER-011652114 | AR-50x50-HO, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €410 | P |
| NER-011652125 | AR-50x50-HO, B LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €410 | P |
| NER-011652143 | AR-50x50-HO, IR LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €410 | P |
| NER-011652138 | AR-50X50-HO, UV LED, 24V-C 4.5M [15FT] Cbl W/Flying Leads | €410 | P |

Area Arrays 75X75 Continuous

| | | | |
|---------------|---|------|---|
| NER-011903401 | AR-75x75-HO, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €472 | P |
| NER-011903502 | AR-75x75-HO, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €732 | P |
| NER-011903503 | AR-75x75-HO, B LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €732 | P |
| NER-011652182 | AR-75x75-HO, IR LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €732 | P |
| NER-011652181 | AR-75X75-HO, UV LED, 24V-C 4.5M [15FT] Cbl W/Flying Leads | €732 | P |

Area Arrays 100X100 Continuous

| | | | |
|---------------|---|--------|---|
| NER-011904101 | AR-100x100-HO, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €768 | P |
| NER-011904201 | AR-100x100-HO, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €1,061 | P |
| NER-011904301 | AR-100x100-HO, B LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €1,061 | P |
| NER-011652232 | AR-100x100-HO, IR LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €1,061 | P |

Area Arrays 50X200 Continuous

| | | | |
|---------------|---|--------|---|
| NER-011650005 | AR-50x200-HO, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €805 | P |
| NER-011650012 | AR-50x200-HO, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €1,435 | P |

Power Supply (Area Arrays continuous)

| | | | |
|---------------|---|------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
|---------------|---|------|---|

Power Supply Cordsets

| | | | |
|---------------|--|-----|---|
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |

Note: For high speed or high intensity applications strobed lights require a light + controller + power supply

Area Arrays 50X50 Strobed

| PART # | DESCRIPTION | List Price | List |
|---------------|---|------------|------|
| NER-011652131 | AR-50x50-HO, R LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €315 | P |
| NER-011652133 | AR-50x50-HO, W LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €410 | P |
| NER-011652135 | AR-50x50-HO, B LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €410 | P |
| NER-011652144 | AR-50x50-HO, IR LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €410 | P |
| NER-011652137 | AR-50X50-HO, UV LED, 24V-S 4.5M [15FT] Cbl W/Flying Leads | €410 | P |

Area Arrays 75X75 Strobed

| | | | |
|---------------|---|------|---|
| NER-011652171 | AR-75x75-HO, R LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €472 | P |
| NER-011652173 | AR-75x75-HO, W LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €732 | P |
| NER-011652175 | AR-75x75-HO, B LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €732 | P |
| NER-011904006 | AR-75x75-HO, IR LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €732 | P |
| NER-011652180 | AR-75X75-HO, UV LED, 24V-S 4.5M [15FT] Cbl w/ Flying Leads | €732 | P |

Area Arrays 100X100 Strobed

| | | | |
|---------------|---|--------|---|
| NER-011652226 | AR-100x100-HO, R LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €768 | P |
| NER-011652228 | AR-100x100-HO, W LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €1,061 | P |
| NER-011652230 | AR-100x100-HO, B LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €1,061 | P |
| NER-011904406 | AR-100x100-HO, IR LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €1,061 | P |

Area Arrays 50X200 Strobed

| | | | |
|---------------|---|--------|---|
| NER-011650004 | AR-50x200-HO, R LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €805 | P |
| NER-011650013 | AR-50x200-HO, W LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €1,435 | P |

Power Supply/Controllers

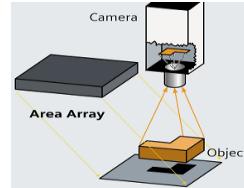
| | | | |
|---------------|---|--------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | €671 | A |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | €957 | A |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | €1,232 | A |

Power Supply Cordsets

| | | | |
|------------|--|-----|---|
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | €44 | A |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | €44 | A |

*Note: Can also be used to control intensity of continuous lights

Tech Reference Arrays



Hardware Required

| Item | Description | Part Number |
|------|---|---------------|
| 1 | AR Series Illuminators | NER-011XXXXXX |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 3 | NL-200 Current Controller Series | 98-000152-0X |

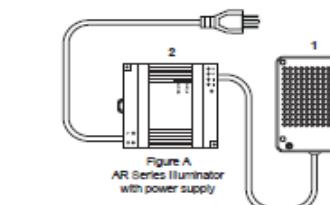


Figure A
AR Series Illuminator with power supply

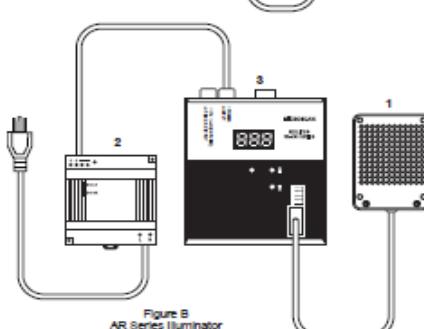


Figure B
AR Series Illuminator with NL-200 and power supply

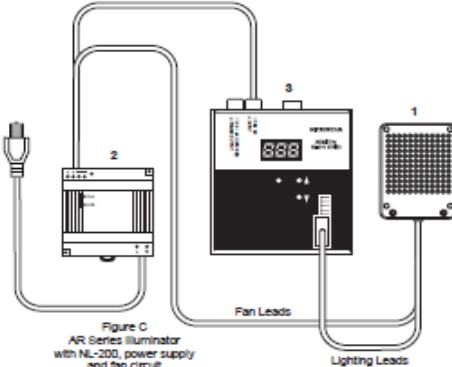


Figure C
AR Series Illuminator with NL-200, power supply and fan circuit

LINEAR ARRAYS (also known as line/bar lights)

Linear Arrays are designed for off axis, non-specular surface lighting in applications that demand small size economical solutions.



Note: For basic applications continuous lights only require a light + power supply

Linear Arrays 50 Continuous

| PART # | DESCRIPTION | List Price | Type |
|---------------|--|------------|------|
| NER-011654195 | LA-50-1, R LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 256 | P |
| NER-011654198 | LA-50-1, W LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 278 | P |
| NER-011654170 | LA-50-1, B LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 278 | P |

Linear Arrays 100 Continuous

| | | | |
|---------------|---|-------|---|
| NER-011654395 | LA-100-1, R LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 344 | P |
| NER-011654340 | LA-100-1, W LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 388 | P |
| NER-011654370 | LA-100-1, B LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 388 | P |

Linear Arrays 150 Continuous

| | | | |
|---------------|---|-------|---|
| NER-011654593 | LA-150-1, R LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 388 | P |
| NER-011654540 | LA-150-1, W LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 454 | P |
| NER-011654570 | LA-150-1, B LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 454 | P |

Power Supply (Linear Arrays continuous)

| | | | |
|---------------|---|-------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 | A |
|---------------|---|-------|---|

Power Supply Cordsets

| | | | |
|---------------|--|------|---|
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | € 48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | € 48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | € 48 | A |

Note: For high speed or high intensity applications strobed lights require a light + controller + power supply

Linear Arrays 50 Strobed

| | | | |
|---------------|--|-------|---|
| NER-011654120 | LA-50-1, R LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 256 | P |
| NER-011654150 | LA-50-1, W LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 278 | P |
| NER-011654180 | LA-50-1, B LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 278 | P |

Linear Arrays 100 Strobed

| | | | |
|---------------|---|-------|---|
| NER-011654320 | LA-100-1, R LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 344 | P |
| NER-011654350 | LA-100-1, W LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 388 | P |
| NER-011654380 | LA-100-1, B LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 388 | P |

Linear Arrays 150 Strobed

| | | | |
|---------------|---|-------|---|
| NER-011654520 | LA-150-1, R LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 388 | P |
| NER-011654550 | LA-150-1, W LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 454 | P |
| NER-011654580 | LA-150-1, B LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 454 | P |

Power Supply/Controllers

| | | | |
|---------------|---|---------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 | A |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | € 671 | A |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | € 957 | A |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | € 1,232 | A |

Power Supply Cordsets

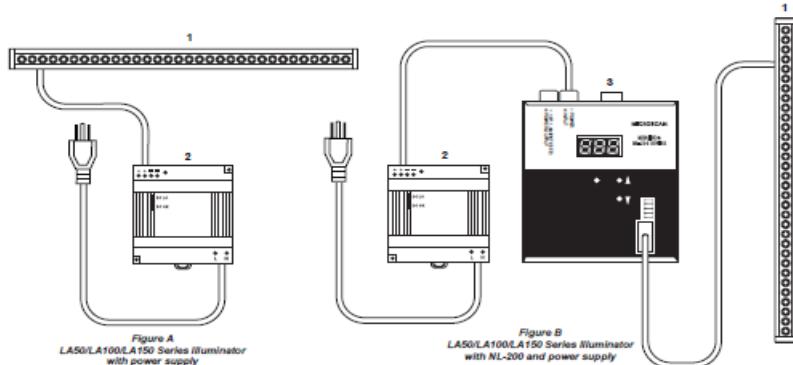
| | | | |
|------------|--|------|---|
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | € 48 | A |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | € 44 | A |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | € 44 | A |

*Note: Can also be used to control intensity of continuous lights

Tech Reference Bar-Line Lights

Hardware Required

| Item | Description | Part Number |
|------|---|---------------|
| 1 | LA Series Illuminators | NER-011654XXX |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 3 | NL-200 Current Controller Series | 98-000152-0X |



NERLITE® HIGH INTENSITY SPOT LIGHTS

NERLITE Spot lights provide economical lighting for non-specular surfaces.



Note: For high speed or high intensity applications strobbed lights require a light + controller + power supply

Spot 20mm Continuous/Strobed

| PART # | DESCRIPTION | List Price | Type |
|----------------|---|------------|------|
| NER-011656003G | S-20, R1 LED-ND10, CC, 4.5M (15 ft.) Cbl w/Flying Leads | €285 | P |
| NER-011656013 | S-20, W3 LED-ND10, CC, 4.5M (15 ft.) Cbl w/Flying Leads | €285 | P |
| NER-011657600G | S-20, UV1 10 DEG, CC, 4.5M (15 ft.) Cbl w/Flying Leads | €357 | P |
| NER-011657601G | S-20, UV3 10 DEG, CC, 4.5M (15 ft.) Cbl w/Flying Leads | €357 | P |
| NER-011656913 | LLG-20.6 W3 LED-ND CC 4.5M (15ft.) Cbl w/Flying Leads | €285 | P |

Power Supply/Controllers

| | | | |
|---------------|---|--------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | €671 | A |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | €957 | A |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | €1,232 | A |

Power Supply Cordsets

| | | | |
|------------|--|-----|---|
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | €44 | A |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | €44 | A |

*Note: Can also be used to control intensity of continuous lights

NERLITE® BACKLIGHTS with "Edge to Edge" lighting

Backlights provide sharp contrast to outline a parts shape, hide clear housings, and view openings such as drilled holes.



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Note: For basic applications continuous lights only require a light + power supply

| Backlights 47X59 Continuous | | List Price | Type |
|------------------------------------|---|------------|------|
| PART # | DESCRIPTION | | |
| NER-011659300G | BACKLIGHT, MV, 47X59 R LED 24VC, M12 CONNECTOR | €459 | P |
| NER-011659310G | BACKLIGHT, MV, 47X59 W LED 24VC, M12 CONNECTOR | €581 | P |
| NER-011659320G | BACKLIGHT, MV, 47X59 B LED 24VC, M12 CONNECTOR | €581 | P |
| NER-011659340G | BACKLIGHT, MV, 47X59 I LED 24VC, M12 CONNECTOR | €459 | P |
| Backlights 71X88 Continuous | | | |
| NER-011659400G | BACKLIGHT, MV, 71X88 R LED 24VC, M12 CONNECTOR | €533 | P |
| NER-011659410G | BACKLIGHT, MV, 71X88 W LED 24VC, M12 CONNECTOR | €659 | P |
| NER-011659420G | BACKLIGHT, MV, 71X88 B LED 24VC, M12 CONNECTOR | €659 | P |
| NER-011659440G | BACKLIGHT, MV, 71X88 I LED 24VC, M12 CONNECTOR | €533 | P |
| Backlights 100X100 Continuous | | | |
| NER-011659500G | BACKLIGHT MV 100X100 R LED 24VC, M12 CONNECTOR | €569 | P |
| NER-011659510G | BACKLIGHT MV 100X100 W LED 24VC, M12 CONNECTOR | €732 | P |
| NER-011659520G | BACKLIGHT MV 100X100 B LED 24VC, M12 CONNECTOR | €732 | P |
| NER-011659540G | BACKLIGHT MV 100X100 I LED 24VC, M12 CONNECTOR | €569 | P |
| Backlights 50X200 Continuous | | | |
| NER-011659600G | BACKLIGHT, MV, 50X200 R LED 24VC, M12 CONNECTOR | €569 | P |
| NER-011659610G | BACKLIGHT, MV, 50X200 W LED 24VC, M12 CONNECTOR | €732 | P |
| NER-011659620G | BACKLIGHT, MV, 50X200 B LED 24VC, M12 CONNECTOR | €732 | P |
| NER-011659640G | BACKLIGHT, MV, 50X200 I LED 24VC, M12 CONNECTOR | €569 | P |
| Power Supply Backlights Continuous | | | |
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| Power Supply Cordsets | | | |
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |
| Backlight Accessories | | | |
| NER-030029100 | M12 to Flying Leads Cable | €44 | A |

Note: For high speed or high intensity applications strobed lights require a light + controller + power supply

Backlights 47X59 Strobed

| PART # | DESCRIPTION | Color | List Price | Type |
|----------------|--|-------|------------|------|
| NER-011659301G | BACKLIGHT, MV, 47X59 R LED CC, M12 CONNECTOR | Red | €459 | P |
| NER-011659311G | BACKLIGHT, MV, 47X59 W LED CC, M12 CONNECTOR | White | €581 | P |
| NER-011659321G | BACKLIGHT, MV, 47X59 B LED CC, M12 CONNECTOR | Blue | €581 | P |
| NER-011659341G | BACKLIGHT, MV, 47X59 I LED CC, M12 CONNECTOR | IR | €459 | P |

Backlights 71X88 Strobed

| | | | | |
|----------------|--|-------|------|---|
| NER-011659401G | BACKLIGHT, MV, 71X88 R LED CC, M12 CONNECTOR | Red | €533 | P |
| NER-011659411G | BACKLIGHT, MV, 71X88 W LED CC, M12 CONNECTOR | White | €659 | P |
| NER-011659421G | BACKLIGHT, MV, 71X88 B LED CC, M12 CONNECTOR | Blue | €659 | P |
| NER-011659441G | BACKLIGHT, MV, 71X88 I LED CC, M12 CONNECTOR | IR | €533 | P |

Backlights 100X100 Strobed

| | | | | |
|----------------|--|-------|------|---|
| NER-011659501G | BACKLIGHT, MV, 100X100 R LED CC, M12 CONNECTOR | Red | €569 | P |
| NER-011659511G | BACKLIGHT, MV, 100X100 W LED CC, M12 CONNECTOR | White | €732 | P |
| NER-011659521G | BACKLIGHT, MV, 100X100 B LED CC, M12 CONNECTOR | Blue | €732 | P |
| NER-011659541G | BACKLIGHT, MV, 100X100 I LED CC, M12 CONNECTOR | IR | €569 | P |

Backlights 50X200 Strobed

| | | | | |
|----------------|---|-------|------|---|
| NER-011659601G | BACKLIGHT, MV, 50X200 R LED CC, M12 CONNECTOR | Red | €569 | P |
| NER-011659611G | BACKLIGHT, MV, 50X200 W LED CC, M12 CONNECTOR | White | €732 | P |
| NER-011659621G | BACKLIGHT, MV, 50X200 B LED CC, M12 CONNECTOR | Blue | €732 | P |
| NER-011659641G | BACKLIGHT, MV, 50X200 I LED CC, M12 CONNECTOR | IR | €569 | P |

Power Supply/Controllers

| | | | |
|---------------|---|--------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | €671 | A |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | €957 | A |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | €1,232 | A |

Power Supply Cordsets

| | | | |
|------------|--|-----|---|
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |

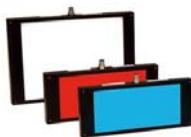
*Note: Can also be used to control intensity of continuous lights

Backlight Accessories

| | | | |
|---------------|---------------------------|-----|---|
| NER-030029100 | M12 to Flying Leads Cable | €44 | A |
|---------------|---------------------------|-----|---|

NERLITE® LARGE BACKLIGHTS

Backlights provide sharp contrast to outline a parts shape, hide clear housings, and view openings such as drilled holes.



Note: For high speed or high intensity applications strobed lights require a light + controller + power supply

Backlights 100X200 Continuous/Strobed

| PART # | DESCRIPTION | Color | List Price | Type |
|----------------|--|-------|------------|------|
| NER-011659700G | BACKLIGHT, MV, 100X200 R LED CC, M12 CONNECTOR | Red | € 980 | P |
| NER-011659710G | BACKLIGHT, MV, 100X200 W LED CC, M12 CONNECTOR | White | € 1,061 | P |
| NER-011659720G | BACKLIGHT, MV, 100X200 B LED CC, M12 CONNECTOR | Blue | € 1,061 | P |
| NER-011659740G | BACKLIGHT, MV, 100X200 I LED CC, M12 CONNECTOR | IR | € 980 | P |

Backlights 150X200 Continuous/Strobed

| | | | | |
|----------------|--|-------|---------|---|
| NER-011659800G | BACKLIGHT, MV, 150X200 R LED CC, M12 CONNECTOR | Red | € 1,077 | P |
| NER-011659810G | BACKLIGHT, MV, 150X200 W LED CC, M12 CONNECTOR | White | € 1,159 | P |
| NER-011659820G | BACKLIGHT, MV, 150X200 B LED CC, M12 CONNECTOR | Blue | € 1,159 | P |

Backlights 200X250 & 150X200 IR Continuous/Strobed

| | | | | |
|----------------|--|-------|---------|---|
| NER-011659840G | BACKLIGHT, MV, 150X200 I LED CC, M12 CONNECTOR | IR | € 1,077 | P |
| NER-011659900G | BACKLIGHT, MV, 200X250 R LED CC, M12 CONNECTOR | Red | € 1,297 | P |
| NER-011659910G | BACKLIGHT, MV, 200X250 W LED CC, M12 CONNECTOR | White | € 1,378 | P |
| NER-011659920G | BACKLIGHT, MV, 200X250 B LED CC, M12 CONNECTOR | Blue | € 1,378 | P |
| NER-011659940G | BACKLIGHT, MV, 200X250 I LED CC, M12 CONNECTOR | IR | € 1,297 | P |

Power Supply/Controllers

| | | | |
|---------------|---|---------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 | A |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | € 671 | A |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | € 957 | A |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | € 1,232 | A |

Power Supply Cordsets

| | | | |
|------------|--|------|---|
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | € 48 | A |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | € 48 | A |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | € 48 | A |

*Note: Can also be used to control intensity of continuous lights

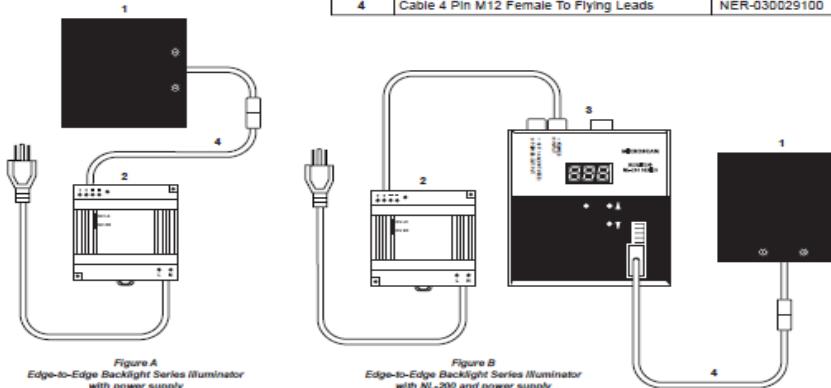
Backlight Accessories

| | | | |
|---------------|---------------------------|------|---|
| NER-030029100 | M12 to Flying Leads Cable | € 44 | A |
|---------------|---------------------------|------|---|

Tech Reference Backlights

Hardware Required

| Item | Description | Part Number |
|------|---|---------------|
| 1 | Edge-To-Edge Series Backlights | NER-011659XXG |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 3 | NL-200 Series Lighting Controller | 98-000152-0X |
| 4 | Cable 4 Pin M12 Female To Flying Leads | NER-030029100 |



NERLITE® DOME LIGHTS

NERLITE Dome Lights provide practical and cost-effective solutions to illuminate shiny, bumpy surfaces.



****Important Pricing Discount Note**** Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

Note: For basic applications continuous lights only require a light + power supply

Dome Lights Continuous

| PART # | DESCRIPTION | List Price | Type |
|---------------|---|------------|------|
| NER-011600403 | D-150, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €715 | P |
| NER-011600411 | D-150, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €1,220 | P |
| NER-011600421 | D-150, B LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €1,220 | P |

Power Supply Domes Continuous

| | | | |
|---------------|---|------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €154 | A |
|---------------|---|------|---|

Power Supply Cordsets

| | | | |
|---------------|--|-----|---|
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |

Note: For high speed or high intensity applications strobed lights require a light + controller + power supply

Dome Lights Strobed

| PART # | DESCRIPTION | List Price | List |
|---------------|---|------------|------|
| NER-011600402 | D-150, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €715 | P |
| NER-011600412 | D-150, W LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €1,220 | P |

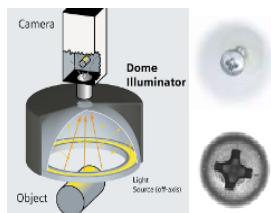
Power Supply/Controllers Domes Strobed

| | | | |
|---------------|---|--------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | €671 | A |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | €957 | A |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | €1,232 | A |

Power Supply Cordsets

| | | | |
|---------------|--|-----|---|
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |

Tech Reference Dome Lights



Hardware Required

| Item | Description | Part Number |
|------|---|---------------|
| 1 | Dome Series Illuminators | NER-0116004XX |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 3 | NL-200 Series Lighting Controller | 98-000152-0X |

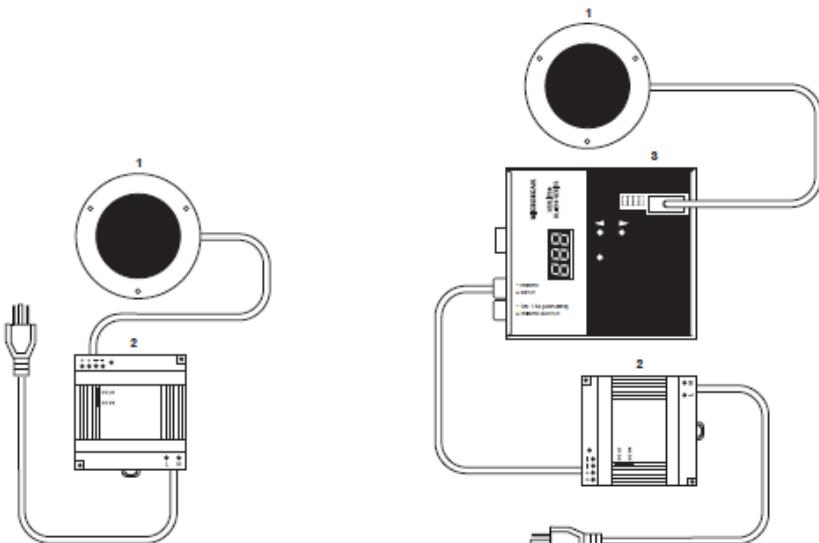


Figure A
Dome Light Series Illuminator
with power supply

Figure B
Dome Light Series Illuminator
with NL-200 Controller and power supply

NERLITE® DARKFIELD LIGHTS

NERLITE Darkfield Lights enhance the contrast of surface features (e.g. embossed or engraved marks).



Darkfield 50 Continuous

| PART # | DESCRIPTION | List Price | Type |
|---------------|--|------------|------|
| NER-011609311 | DF-50, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €402 | P |
| NER-011609321 | DF-50, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €461 | P |
| NER-011609331 | DF-50 B LED-ND 24V-C 2M [6.6'] CBL W/DB9 | €461 | P |

Darkfield 100 Continuous

| | | | |
|---------------|---|------|---|
| NER-011601520 | DF-100-1, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €458 | P |
| NER-011601521 | DF-100-1, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €458 | P |

Darkfield 150 Continuous

| | | | |
|---------------|---|--------|---|
| NER-011600020 | DF-150-1, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600031 | DF-150-1, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600070 | DF-150-1, B LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600021 | DF-150-1, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600041 | DF-150-1, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600208 | DF-150-3, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €894 | P |
| NER-011600206 | DF-150-3, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €1,138 | P |

Darkfield 200 Continuous

| | | | |
|---------------|--|--------|---|
| NER-011603300 | DF-200-1, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €1,301 | P |
|---------------|--|--------|---|

Power Supply Darkfields Continuous

| | | | |
|---------------|---|------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
|---------------|---|------|---|

Power Supply Cordsets

| | | | |
|---------------|--|-----|---|
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |

Note: For high speed or high intensity applications strobed lights require a light + controller + power supply

Darkfield 50 Strobed

| | | | |
|---------------|--|------|---|
| NER-011609312 | DF-50, R LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €402 | P |
| NER-011609322 | DF-50, W LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €461 | P |
| NER-011609332 | DF-50 B LED-ND 24V-S 2M [6.6'] CBL W/DB9 | €461 | P |

Darkfield 100 Strobed

| | | | |
|---------------|--|------|---|
| NER-011601502 | DF-100-1, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €458 | P |
|---------------|--|------|---|

Darkfield 150 Strobed

| | | | |
|---------------|---|--------|---|
| NER-011600004 | DF-150-1, R LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600032 | DF-150-1, W LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600080 | DF-150-1, B LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600007 | DF-150-1, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600042 | DF-150-1, W LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €651 | P |
| NER-011600209 | DF-150-3, R LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €895 | P |
| NER-011600207 | DF-150-3, W LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €1,138 | P |

Darkfield 200 Strobed

| | | | |
|---------------|--|--------|---|
| NER-011603301 | DF-200-1, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €1,301 | P |
|---------------|--|--------|---|

Power Supply/Controllers Darkfield Strobed

| | | | |
|---------------|---|--------|---|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 | A |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | €671 | A |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | €957 | A |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | €1,232 | A |

Power Supply Cordsets

| | | | |
|---------------|--|-----|---|
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 | A |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 | A |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 | A |

Prices and Specifications Subject to Change

€100 Minimum Order

07-0000001-02 Rev AG

www.microscan.com

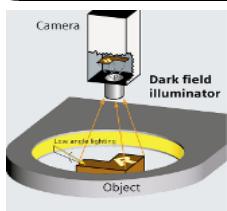
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Fax: 425.226.8250

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Tech Reference *Dark Field Lights*



Hardware Required

| Item | Description | Part Number |
|------|---|---------------|
| 1 | DF Series Illuminators | NER-01160XXXX |
| 2 | Power Supply DSP60 24VDC 2.5A DIN Mount | NER-011504100 |
| 3 | NL-200 Current Controller Series | 98-000152-0X |

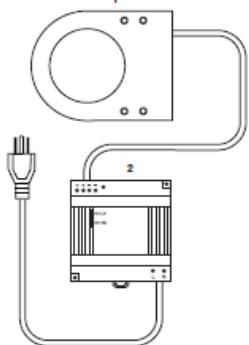


Figure A
Dark Field Series Illuminator
with power supply

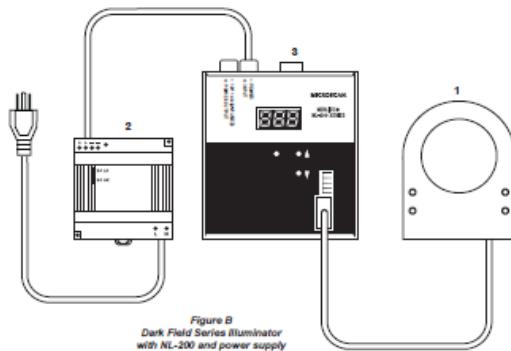


Figure B
Dark Field Series Illuminator
with NL-200 and power supply

NERLITE® Accessories

Important Pricing Discount Note* Product discounts are applied based on the Product TYPE as indicated in the TYPE column of each price sheet.

Two (2) Product Types are defined as follows: P = PRODUCT Discount or A = ACCESSORY Discount.

Refer to your Partner Agreement for the actual discount percentage by Product Type.

NERLITE Accessories

| Part Number | Description | List Price | Type |
|--------------|--|------------|------|
| 99-035002601 | Beam Splitter, DOAL-25 Red & Blue | € 138 | A |
| 99-037000309 | Beam Splitter, Custom DOAL-34X46 Red & Blue | € 92 | A |
| 99-037012300 | Beam Splitter, Custom CDI-219 | € 92 | A |
| 99-037009400 | Beam Splitter, Custom DOAL-25 Blue/IR | € 92 | A |
| 99-037000305 | Beam Splitter, DOAL-75 Red & Blue | € 92 | A |
| 99-037005002 | Beam Splitter, DOAL-75 IR | € 229 | A |
| 99-037000310 | Beam Splitter, DOAL-100 Red & Blue | € 92 | A |
| 99-037005001 | Beam Splitter, DOAL-100 IR | € 229 | A |
| 99-037011500 | Beam Splitter, DOAL-50 Red & Blue | € 92 | A |
| 99-037011501 | Beam Splitter, DOAL-50 White | € 92 | A |
| 99-037011502 | Beam Splitter, DOAL-50 IR | € 92 | A |
| 99-037000509 | Beam Splitter, DOAL-100 White | € 138 | A |
| 99-037000508 | Beam Splitter, DOAL-75 White | € 92 | A |
| 99-037000303 | Beam Splitter, CDI-150 Red | € 92 | A |
| 99-037012900 | Beam Splitter, CDI-150 White | € 92 | A |
| 99-035036100 | Beam Splitter, CDI-200 Red | € 138 | A |
| 99-035036200 | Beam Splitter, CDI-200 White | € 138 | A |
| 99-037000301 | Beam Splitter, SCDI-25 Red | € 92 | A |
| 99-037000503 | Beam Splitter, SCDI-25 White | € 92 | A |
| 99-035017500 | Beam Splitter, SCDI-75 Red | € 138 | A |
| 99-035002720 | Beam Splitter, SCDI-75 White | € 138 | A |
| 99-035030900 | Beam Splitter, SCDI-50 Red | € 138 | A |
| 99-035032000 | Beam Splitter, SCDI-50 White | € 138 | A |
| 99-035002701 | Beam Splitter, DOAL 25 White | € 138 | A |
| 99-037013100 | Beam Splitter, OAL-50 UV | € 229 | A |
| 99-035002707 | Beam Splitter, DOAL 20 FO | € 138 | A |
| 99-035006300 | AR (Anti-Reflective) Cover, DOAL-25 | € 92 | A |
| 99-037012500 | AR (Anti-Reflective) Cover, Custom CDI-219 | € 92 | A |
| 99-035006400 | AR (Anti-Reflective) Cover, DOAL-75 | € 92 | A |
| 99-035006500 | AR (Anti-Reflective) Cover, DOAL-100 | € 229 | A |
| 99-035028900 | AR (Anti-Reflective) Cover, DOAL-50 | € 92 | A |
| 99-035000600 | AR (Anti-Reflective) Cover, CDI-150 & CDI-200 | € 138 | A |
| 99-035002900 | AR (Anti-Reflective) Cover, SCDI-75 | € 138 | A |
| 99-035031000 | AR (Anti-Reflective) Cover, SCDI-50 | € 138 | A |
| 99-000055-01 | Accessory, Bracket, DOAL 50 to MINI | € 209 | A |
| 99-000056-01 | Accessory, Bracket, DOAL 50 to QX Hawk | € 209 | A |
| 99-000057-01 | Accessory, Bracket, DOAL 75 to MINI | € 209 | A |
| 99-000058-01 | Accessory, Bracket, DOAL 75 to QX Hawk | € 209 | A |
| 99-000059-01 | Accessory, Bracket, DOAL 100 to MINI | € 209 | A |
| 99-000060-01 | Accessory, Bracket, DOAL 100 to QX Hawk | € 209 | A |
| 99-000061-01 | Accessory, Bracket, DOAL to C-Mount Hawk | € 209 | A |
| 99-000050-01 | Accessory, Bracket, R-100 TO QX Hawk | € 116 | A |
| 99-000052-01 | Accessory, Bracket, R-60/70 TO QX Hawk | € 116 | A |
| 99-000053-01 | Accessory, Bracket, R-60/70 TO MINI | € 116 | A |
| 99-000054-01 | Accessory, Bracket, R-100 TO MINI | € 116 | A |
| 99-000049-01 | Accessory, Bracket, R-100 TO C-MOUNT QX Hawk | € 116 | A |
| 99-000051-01 | Accessory, Bracket, R-60/70 TO C-MOUNT QX Hawk | € 116 | A |
| 61-000204-01 | Assy, Cable, Power Smart Series to QX-1 | € 165 | A |

Product Demonstration Kits



For flexibility, many Microscan Demonstration Kits do not contain scanners, readers or cameras. These are indicated by * in the part number listing below and require a separate purchase of the desired reader or camera:

Demo Kits - Scanner / Camera Not Included*

| Part Number | Description | List Price |
|---------------------------|---|------------|
| 98-000055-05 | Demo Kit, MS-3 | € 595 |
| 98-000077-13 | Demo Kit, MS-Q (includes Bluetooth modem) | € 695 |
| 98-000102-01 | Demo Kit, QX 830/870 | € 425 |
| 98-000090-03 | Demo Kit, MS-890 | € 595 |
| 98-000086-02 | Demo Kit, Quadrus MINI | € 655 |
| 98-000149-01 | Demo Kit, QX Hawk | € 425 |
| 98-000215-01 | Demo Kit, AutoVISION - supports Vision MINI and Vision HAWK | € 495 |
| 98-000214-01 | Starter Kit, no VS-1 Camera, Lenses, P/S, Ring Light, Cbls, Demo Stand | € 1,040 |
| 98-000216-01 | NERLITE Smart Series Demo Kit (Lights Not Included) | € 400 |
| 98-000199-01 [†] | Visionscape GigE Demo Kit - SW Lic, No Camera, P/S, Trig Cble, Ethnt Cble, Lens | € 2,926 |

* These kits are discounted 25% and require purchase of separate reader discounted 60%. Please visit the relevant product page.

[†] GigE cameras purchased in conjunction with a GigE Demo Kit are discounted 30%.

Demo Kits - Scanner / Camera Included**

| Part Number | Description | List Price |
|-------------------|--|------------|
| 98-000097-02 | MS-1 Demonstration Kit (Note: Kit contains 1 HD MS-1 and 1 LD MS-1) | € 226 |
| 98-000095-02 | Demo Kit, MS-Connect 210 | € 895 |
| FIS-HEDPMDEMO | Demo Kit, HE1525 Verifier - w HE1525HD, P/S, cables, stand, verifier lic., stack light | € 5,046 |
| FIS-UIDDPMDEMO_01 | Demo Kit, UID DPM Verifier | € 7,595 |
| FIS-UIDLDPDEMO_01 | Demo Kit, UID LDP Verifier | € 7,195 |
| 98-000139-01 | Visionscape GigE Demo Kit - SW Lic, VGA CCD Cmra, P/S, Trig Cble, Ethnt Cble, Lens | € 3,535 |
| 98-000207-01 | NERLITE Starter Kit with HI-Brite, 24VDC | € 4,575 |
| 98-000224-01 | DEMO KIT, MS-2D, USB ENG, DECODE, TABS, INTFC BD, 12 IN RIBBON | € 499 |
| 98-000224-02 | DEMO KIT, MS-2D, SERIAL ENG, DECODE, TABS, INTFC BD, 12 IN RIBBON | € 499 |

** No separate reader purchase required. These kits are discounted 25%.

NOTE: Demo kits are not available for HS-1, HS-2D and Mobile Hawk. A reader, specifically purchased as a demo unit will be discounted 50%.

Service Price List

Repair or replace list prices, representative part number shown. Accessory discounts apply.

Auto ID Barcode Readers

| Part Number | Description | List Price |
|---------------|---------------|------------|
| FIS-0002-XXXX | MS-2 Repair | € 150 |
| FIS-0003-XXXX | MS-3 Repair | € 350 |
| FIS-0710-XXXX | MS-710 Repair | € 400 |
| FIS-0911-XXXX | MS-9 Repair | € 450 |
| FIS-0820-XXXX | MS-820 Repair | € 400 |
| FIS-0830-XXXX | QX-830 Repair | € 450 |
| FIS-0860-XXXX | MS-860 Repair | € 450 |
| FIS-0870-XXXX | QX 870 Repair | € 500 |
| FIS-0890-XXXX | MS-890 Repair | € 575 |

Auto ID 2D Readers and Verifiers

| Part Number | Description | List Price |
|---------------|----------------------------|------------|
| FIS-0004-XXXX | MS-4 Repair | € 440 |
| FIS-6300-XXXX | MINI Repair | € 440 |
| FIS-6700-XXXX | Quadrus EZ Repair | € 450 |
| FIS-HE15-XXXX | Hawkeye 1500 Series Repair | € 450 |
| FIS-6800-XXXX | QX Hawk Repair | € 450 |
| FIS-6700-XXXX | Quadrus Verifier Repair | € 700 |
| FIS-UD20-XXXX | LDP Verifier Repair | € 790 |
| FIS-UD10-XXXX | DPM Verifier Repair | € 790 |

Auto ID Handhelds

| Part Number | Description | List Price |
|---------------|--------------------------------------|------------|
| N/A | HS-1 & HS-2D Repair not available | N/A |
| FIS-6150-XXXX | MS-Q, MS-Q Quadrus, and HE40T Repair | € 350 |
| FIS-HT45-XXXX | HE45T Repair | € 400 |
| FIS-6170-XXXX | Mobile Hawk Repair | € 400 |

Machine Vision

| Part Number | Description | List Price |
|----------------|---|------------|
| GMV-1HT16-XXXX | Visionscape Smart Camera (VS-1) Repair | € 560 |
| GMV-VS74-XXXX | Visionscape Framegrabber Board Repair/Replace (eg. VS740) | € 2,500 |
| GMV-6300-XXXX | Vision MINI Smart Camera Repair | € 600 |
| GMV-6800-XXXX | Vision HAWK Smart Camera Repair | € 650 |

NER Lighting

| Part Number | Description | List Price |
|--------------|---|------------|
| Call | NERLITE Repairs | Varies* |
| 99-035002601 | Beam Splitter, DOAL-25 Red & Blue | €138 |
| 99-037000309 | Beam Splitter, Custom DOAL-34X46 Red & Blue | €92 |
| 99-037012300 | Beam Splitter, Custom CDI-219 | €92 |
| 99-037009400 | Beam Splitter, Custom DOAL-25 Blue/IR | €92 |
| 99-037000305 | Beam Splitter, DOAL-75 Red & Blue | €92 |
| 99-037005002 | Beam Splitter, DOAL-75 IR | €229 |
| 99-037000310 | Beam Splitter, DOAL-100 Red & Blue | €92 |
| 99-037005001 | Beam Splitter, DOAL-100 IR | €229 |
| 99-037011500 | Beam Splitter, DOAL-50 Red & Blue | €92 |
| 99-037011501 | Beam Splitter, DOAL-50 White | €92 |
| 99-037011502 | Beam Splitter, DOAL-50 IR | €92 |
| 99-037000509 | Beam Splitter, DOAL-100 White | €138 |
| 99-037000508 | Beam Splitter, DOAL-75 White | €92 |
| 99-037000303 | Beam Splitter, CDI-150 Red | €92 |
| 99-037012900 | Beam Splitter, CDI-150 White | €92 |
| 99-035036100 | Beam Splitter, CDI-200 Red | €138 |
| 99-035036200 | Beam Splitter, CDI-200 White | €138 |
| 99-037000301 | Beam Splitter, SCDI-25 Red | €92 |
| 99-037000503 | Beam Splitter, SCDI-25 White | €92 |
| 99-035017500 | Beam Splitter, SCDI-75 Red | €138 |
| 99-035002720 | Beam Splitter, SCDI-75 White | €138 |
| 99-035030900 | Beam Splitter, SCDI-50 Red | €138 |
| 99-035032000 | Beam Splitter, SCDI-50 White | €138 |
| 99-035002701 | Beam Splitter, DOAL 25 White | €138 |
| 99-037013100 | Beam Splitter, OAL-50 UV | €229 |
| 99-035002707 | Beam Splitter, DOAL 20 FO | €138 |
| 99-035006300 | AR (Anti-Reflective) Cover, DOAL-25 | €138 |
| 99-037012500 | AR (Anti-Reflective) Cover, Custom CDI-219 | €138 |
| 99-035006400 | AR (Anti-Reflective) Cover, DOAL-75 | €138 |
| 99-035006500 | AR (Anti-Reflective) Cover, DOAL-100 | €138 |
| 99-035028900 | AR (Anti-Reflective) Cover, DOAL-50 | €138 |
| 99-035000600 | AR (Anti-Reflective) Cover, CDI-150 & CDI-200 | €138 |
| 99-035002900 | AR (Anti-Reflective) Cover, SCDI-75 | €138 |
| 99-035031000 | AR (Anti-Reflective) Cover, SCDI-50 | €138 |

*Contact Microscan service for specific pricing.

Legacy Products

Note: These products are not recommended for new applications, but are still actively shipping and supported.

MS-1 (16 bit) Series Scan Engine

| Part Number | Description | List Price |
|----------------|--|------------|
| FIS-0001-8001G | CCD Scan Engines, Low Density, 16 bit, 8-pack | € 950 |
| FIS-0001-8002G | CCD Scan Engines, High Density, 16 bit, 8-pack | € 950 |

MS-2 (16 bit)

| Part Number | Description | List Price |
|----------------|--|------------|
| FIS-0002-0001G | MS-2, CCD, 16 bit, Low Density | € 360 |
| FIS-0002-0002G | MS-2, CCD, Low Density, 16 bit, Right Angle | € 420 |
| FIS-0002-0003G | MS-2, CCD, 16 bit, High Density | € 360 |
| FIS-0002-0004G | MS-2, CCD, High Density, 16 bit, Right Angle | € 420 |
| 61-000143-01 | Firmware Upgrade Adapter for MS-2, 16 bit | € 30 |

MS-3

| Part Number | Description | List Price |
|----------------|--|------------|
| FIS-0003-0017G | Laser, Single Line, Low Density, PDF | € 882 |
| FIS-0003-0018G | Laser, Single Line, High Density, PDF | € 882 |
| FIS-0003-0021G | Laser, Single Line, Low Density, Right Angle, PDF | € 987 |
| FIS-0003-0022G | Laser, Single Line, High Density, Right Angle, PDF | € 987 |
| FIS-0003-0023G | Laser, Raster, Low Density, Right Angle, PDF | € 1,040 |
| FIS-0003-0024G | Laser, Raster, High Density, Right Angle, PDF | € 1,040 |
| FIS-0003-0025G | Laser, Single Line, Low Density, 6" Cable, PDF | € 882 |
| FIS-0003-0026G | Laser, Single Line, High Density, 6" Cable, PDF | € 882 |
| FIS-0003-0027G | Laser, Raster, Low Density, 6" Cable, PDF | € 935 |
| FIS-0003-0029G | Laser, Single Line, Low Density, Right Angle, 6" Cable, PDF | € 987 |
| FIS-0003-0030G | Laser, Single Line, High Density, Right Angle, 6" Cable, PDF | € 987 |
| FIS-0003-0031G | Laser, Raster, Low Density, Right Angle, 6" Cable, PDF | € 1,040 |
| FIS-0003-0032G | Laser, Raster, High Density, Right Angle, 6" Cable, PDF | € 1,040 |
| FIS-0003-0034G | Laser, Single Line, High Density, VS-310 Replacement | € 777 |
| FIS-0003-0035G | Laser, Raster, Low Density, VS-310 Replacement | € 830 |
| FIS-0003-0039G | Laser, Raster, Low Density, Keyence Replacement | € 777 |

MS-710

| Part Number | Description | List Price |
|----------------|--|------------|
| FIS-0710-0001G | SCANNER,VIS,SL,RS232,BASE MNT. | € 1,295 |
| FIS-0710-0002G | SCANNER,VIS,SL,RS232,RAD,BASE MNT. | € 1,345 |
| FIS-0710-0005G | SCANNER, VIS, RASTER, RS232, BASE MOUNT | € 1,295 |
| FIS-0710-0006G | SCANNER,VIS,RASTER,RS232,RAD,BASE ,MNT. | € 1,345 |
| FIS-0710-0010G | SCANNER, VIS, SL, RS232, RAD, CASE MOUNT | € 1,370 |
| FIS-0710-0019G | SCANNER,VIS,RASTER,HD,RS232,CASE MNT. | € 1,320 |
| FIS-0710-0022G | SCANNER,VIS,SL,HD,RS232,BASE MNT. | € 1,295 |
| FIS-0710-0023G | SCANNER,VIS,RASTER,HD,RS232,BASE MNT. | € 1,295 |
| FIS-0710-0025G | SCANNER, VIS, RSTR, HD, RS232, RAD, BASE | € 1,345 |
| FIS-0710-0035G | SCANNER,VIS,SL,RS232,BASE MNT, SP. SW | € 1,295 |
| FIS-0710-0037G | SCANNER,VIS,RASTER,HD,RS232,RAD,BASE MNT | € 1,345 |

| MS-820 | | List Price |
|----------------|--------------------------------------|------------|
| Part Number | Description | |
| FIS-0820-0001G | SCANNER,VIS,SL,LD | € 1,335 |
| FIS-0820-0002G | SCNR,VIS,SL,HD | € 1,335 |
| FIS-0820-0003G | SCNR,VIS,RASTER,LD | € 1,440 |
| FIS-0820-0004G | SCNR,VIS,RASTER,HD | € 1,440 |
| FIS-0820-0009G | SCANNER, VIS, SL, MD | € 1,335 |
| FIS-0820-0010G | SCNR,VIS,RASTER,MD | € 1,440 |
| FIS-0820-0011G | SCANNER,VIS,SL,NHD | € 1,440 |
| FIS-0820-0012G | SCNR,VIS,RASTER,NHD | € 1,440 |
| FIS-0820-0014G | SCNR,VIS,RASTER,UHD | € 1,440 |
| FIS-0820-0015G | SCNR,VIS,RASTER,MD,SP.SW(Pharmacode) | € 1,440 |
| FIS-0820-0017G | SCNR,VIS,SL,LD,HT | € 1,440 |
| FIS-0820-0018G | SCNR,VIS,RASTER,LD,HT | € 1,540 |

| Quadrus MINI Series | | List Price |
|---------------------|--|------------|
| Part Number | Description | |
| FIS-6300-2005G | MINI,3MP,SD,232/422/485,5VDC,QMODE | € 2,195 |
| FIS-6300-2006G | MINI,3MP,MICRO D,232/422/485,5VDC,QMODE | € 2,195 |
| FIS-6300-2007G | MINI,3MP,SD,USB,5VDC,QMODE | € 2,270 |
| FIS-6300-2001G | 3 Megapixel Imager, Standard Density, Serial, 5VDC | € 2,095 |
| FIS-6300-2002G | 3 Megapixel Imager, Micro Density, Serial, 5VDC | € 2,095 |
| FIS-6300-2009G | 3 Megapixel Imager, Standard Density, USB+I/O, 5VDC * | € 2,170 |
| FIS-6300-2010G | 3 Megapixel Imager, Micro Density, USB+I/O, 5VDC * | € 2,170 |
| FIS-6300-4001G | MINI Hawk High Res, Standard Density, Serial, 5VDC | € 1,895 |
| FIS-6300-4002G | MINI Hawk High Res, High Density, Serial, 5VDC | € 1,895 |
| FIS-6300-4003G | MINI Hawk High Res, Ultra High Density, Serial, 5VDC | € 1,895 |
| FIS-6300-4004G | MINI Hawk High Res, Standard Density, USB+I/O, 5VDC* | € 1,970 |
| FIS-6300-4005G | MINI Hawk High Res, High Density, USB+I/O, 5VDC* | € 1,970 |
| FIS-6300-4006G | MINI Hawk High Res, Ultra High Density, USB+I/O, 5VDC* | € 1,970 |
| FIS-6300-5001G | MINI Hawk High Speed, Standard Density, Serial, 5VDC | € 1,895 |
| FIS-6300-5002G | MINI Hawk High Speed, Ultra High Density, Serial, 5VDC | € 1,895 |
| FIS-6300-5003G | MINI Hawk High Speed, Standard Density, USB+I/O, 5VDC* | € 1,970 |
| FIS-6300-5004G | MINI Hawk High Speed, Ultra High Density, USB+I/O, 5VDC* | € 1,970 |

| NERLITE LALL 22X288 Continuous/Stobed | | List Price |
|---------------------------------------|---|------------|
| PART # | DESCRIPTION | |
| NER-011655904 | LALL-22x288, R1LED-ND10/P, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 846 |
| NER-011655914 | LALL-22x288, W1LED-ND10/P, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 845 |
| NER-011654903 | LALL-22x288, R1LED-ND10, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 805 |
| NER-011654913 | LALL-22x288, W1LED-ND10, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 805 |
| NER-011654909 | LALL-22x288, R1LED-ND50,CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 805 |
| NER-011654919 | LALL-22x288, W1LED-ND50, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 846 |
| NER-011658009 | LA-288, R1LED-F, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 805 |
| NER-011658313 | LA-288, W3 LED-F, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 805 |

| NERLITE LALL 47X47 Continuous/Stobed | | List Price |
|--------------------------------------|--|------------|
| PART # | DESCRIPTION | |
| NER-011655009 | LALL-47x47, R1 LED-ND50,CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 569 |
| NER-011655014 | LALL-47x47, W1LED-ND50, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 570 |
| NER-011655003 | LALL-47x47, R1LED-ND10, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 569 |
| NER-011655013 | LALL-47x47, W1LED-ND10, CC, 4.5M (15 ft.) Cbl w/Flying Leads | € 569 |

| NERLITE Legacy Controllers | | List Price |
|----------------------------|---|------------|
| Part Number | Description | |
| NER-011503300 | PP600 2-CHNL PUSH BUTTON MV LIGHTING CURRENT CONTROLLER | € 699 |
| NER-011503301 | PP610 2 CHNL RS232 MV LIGHTING CURRENT CONTROLLER | € 992 |
| NER-011503800 | LC-50, 0.35A CC Drvr, Term Blk, Input 40VDC Max | € 171 |
| NER-011503850 | LC-100, 0.35A CC Drvr, Term Blk, Input 40VDC Max, w/ Intensity Adjust | € 305 |
| NER-011503801 | LC-50, 0.7A CC Drvr, Term Blk, Input 40VDC Max | € 171 |
| NER-011503851 | LC-100, 0.7A CC Drvr, Term Blk, Input 40VDC Max, w/ Intensity Adjust | € 305 |
| NER-011503802 | LC-50, 1.05A CC Drvr, Term Blk, Input 40VDC Max | € 171 |
| NER-011503852 | LC-100, 1.05A CC Drvr, Term Blk, Input 40VDC Max, w/ Intensity Adjust | € 305 |
| NER-011503803 | LC-50, 1.4A CC Drvr, Term Blk, Input 40VDC Max | € 305 |

Prices and Specifications Subject to Change

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| DOAL 25 mm Continuous | | |
|------------------------|--|------------|
| Part Number | Description | List Price |
| NER-011201305 | DOAL-25, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 407 |
| NER-011201313 | DOAL-25, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 467 |
| DOAL 50 mm Continuous | | |
| NER-011200814 | DOAL-50 V2, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 500 |
| NER-011200824 | DOAL-50 V2, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 707 |
| NER-011200834 | DOAL-50 V2, B LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 707 |
| NER-011200892 | DOAL-50 V2, IR LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 707 |
| NER-011208800 | DOAL-50 V2, UV LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 890 |
| DOAL 75 mm Continuous | | |
| NER-011200502 | DOAL-75, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 972 |
| NER-011204902 | DOAL-75, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,585 |
| NER-011205720 | DOAL-75, B LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,585 |
| NER-011200506 | DOAL-75, IR LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,585 |
| DOAL 100 mm Continuous | | |
| NER-011200602 | DOAL-100, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,098 |
| NER-011204601 | DOAL-100, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 2,041 |
| NER-011204610 | DOAL-100, B LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 2,041 |
| NER-011200603 | DOAL-100, IR LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 2,041 |

| DOAL Power Supply (25, 50,75, 100 mm continuous) | | |
|--|--|------------|
| Part Number | Description | List Price |
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 |
| DOAL Power Supply Cordsets | | |
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | € 48 |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | € 48 |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | € 48 |

Note: For high speed or high intensity applications strobed lights require a light + controller + power supply

| DOAL 25 mm Strobe | | |
|-------------------------------|---|------------|
| Part Number | Description | List Price |
| NER-011201314 | DOAL-25, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 407 |
| DOAL 50 mm Strobe | | |
| NER-011200812 | DOAL-50 V2, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 500 |
| NER-011200822 | DOAL-50 V2, W LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 707 |
| NER-011200832 | DOAL-50 V2, B LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 707 |
| NER-011200897 | DOAL-50 V2, IR LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 707 |
| NER-011208801 | DOAL-50 V2, UV LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 890 |
| DOAL 75 mm Strobe | | |
| NER-011200501 | DOAL-75, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 972 |
| NER-011204901 | DOAL-75, W LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,585 |
| NER-011205721 | DOAL-75, B LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,585 |
| NER-011200507 | DOAL-75, IR LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,585 |
| DOAL 100 mm Strobe | | |
| NER-011200601 | DOAL-100, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,098 |
| NER-011204600 | DOAL-100, W LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 2,041 |
| NER-011204611 | DOAL-100, B LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 2,041 |
| NER-011200605 | DOAL-100, IR LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 2,041 |
| DOAL Power Supply/Controllers | | |
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | € 671 |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | € 957 |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | € 1,232 |
| DOAL Power Supply Cordsets | | |
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | € 48 |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | € 44 |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | € 44 |

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RING 60 mm Continuous

| Part Number | Description | List Price |
|---------------|---|------------|
| NER-011605010 | R-60-2, R LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 319 |
| NER-011605040 | R-60-2, W LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011605070 | R-60-2, B LED-ND/D, 24V-C 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011605098 | R-60-2, IR LED-ND/D, 24V-C 4.5M (15 ft.) Cbl w/Flying Leads | € 390 |

RING 70 mm Continuous

| | | |
|---------------|---|-------|
| NER-011604810 | R-70-2, R LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 319 |
| NER-011604840 | R-70-2, W LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011604870 | R-70-2, B LED-ND/D, 24V-C 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011604898 | R-70-2, IR LED-ND/D, 24V-C 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011605891 | R-70, UV LED, 24V-C 4.5M [15FT] Cbl w/Flying Leads | € 395 |

RING 100 mm Continuous

| | | |
|---------------|---|-------|
| NER-011607016 | R-100-2 V2, R LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 414 |
| NER-011607046 | R-100-2 V2, W LED-ND/D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 538 |
| NER-011607070 | R-100-2 V2, B LED-ND/D, 24V-C 4.5M (15 ft.) Cbl w/Flying Leads | € 538 |
| NER-011607099 | R-100-2 V2, IR LED-ND/D, 24V-C 4.5M (15 ft.) Cbl w/Flying Leads | € 538 |

Power Supply (60, 70, 100 mm continuous)

| Part Number | Description | List Price |
|------------------------------|--|------------|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 |
| Power Supply Cordsets | | |
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | € 48 |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | € 48 |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | € 48 |

Note: For high speed or high intensity applications strobbed lights require a light + controller + power supply

RING 60 mm Strobe

| Part Number | Description | List Price |
|---------------|---|------------|
| NER-011605020 | R-60-2, R LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 319 |
| NER-011605050 | R-60-2, W LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011605080 | R-60-2, B LED-ND/D, 24V-S 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011605099 | R-60-2, IR LED-ND/D, 24V-S 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |

RING 70 mm Strobe

| | | |
|---------------|---|-------|
| NER-011604820 | R-70-2, R LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 319 |
| NER-011604850 | R-70-2, W LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011604880 | R-70-2, B LED-ND/D, 24V-S 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011604899 | R-70-2, IR LED-ND/D, 24V-S 4.5M (15 ft.) Cbl w/Flying Leads | € 395 |
| NER-011605897 | R-70, UV LED, 24V-S 4.5M [15FT] Cbl w/Flying Leads | € 395 |

RING 100 mm Strobe

| | | |
|---------------|---|-------|
| NER-011607020 | R-100-2 V2, R LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 414 |
| NER-011607050 | R-100-2 V2, W LED-ND/D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 538 |
| NER-011607080 | R-100-2 V2, B LED-ND/D, 24V-S 4.5M (15 ft.) Cbl w/Flying Leads | € 538 |
| NER-011607095 | R-100-2 V2, IR LED-ND/D, 24V-S 4.5M (15 ft.) Cbl w/Flying Leads | € 538 |

Power Supply/Controllers

| Part Number | Description | List Price |
|---------------|---|------------|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | € 671 |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | € 957 |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | € 1,232 |

Power Supply Cordsets

| | | |
|------------|--|------|
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | € 48 |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | € 44 |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | € 44 |

*Note: Can also be used to control intensity of continuous lights

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NERLITE® RING LIGHT ACCESSORIES

Note: For mounting and alternate focused optics use the following

60 mm Mounts and Optics

| Part Number | Description | List Price |
|---------------|--|------------|
| NER-080108200 | R-60 V2 Lens Adapter 25.5 mm X 0.50 mm | €33 |
| NER-080108201 | R-60 V2 Lens Adapter 27.0 mm X 0.50 mm | €33 |
| NER-080108203 | R-60 V2 Lens Adapter 30.5 mm X 0.50 mm | €33 |
| NER-080108202 | R-60 V2 Lens Adapter 40.5 mm X 0.50 mm | €33 |
| NER-080108205 | R-60 V2 Lens Adapter 46.0 mm X 0.75 mm | €33 |
| NER-035026202 | Fresnel (focusing) Lens, R-60 V2, FL = 70mm | €81 |
| NER-035026203 | Fresnel (focusing) Lens, R-60 V2, FL = 102mm | €81 |
| NER-035026204 | Fresnel (focusing) Lens, R-60 V2, FL = 127mm | €81 |

70 mm Mounts and Optics

| | | |
|---------------|--|-----|
| NER-080103900 | R-70 V2 Lens Adapter 25.5 mm X 0.50 mm | €33 |
| NER-080092600 | R-70 V2 Lens Adapter 27.0 mm X 0.50 mm | €33 |
| NER-080092501 | R-70 V2 Lens Adapter 30.5 mm X 0.50 mm | €33 |
| NER-080092500 | R-70 V2 Lens Adapter 40.5 mm X 0.50 mm | €33 |
| NER-035025202 | Fresnel (focusing) Lens, R-70 V2, FL = 70mm | €81 |
| NER-035025203 | Fresnel (focusing) Lens, R-70 V2, FL = 102mm | €81 |
| NER-035025204 | Fresnel (focusing) Lens, R-70 V2, FL = 127mm | €81 |

100 mm Mounts and Optics

| | | |
|---------------|--|-----|
| NER-080114000 | R-100 V2 Lens Adapter 25.5 mm X 0.50 mm | €33 |
| NER-080114001 | R-100 V2 Lens Adapter 27.0 mm X 0.50 mm | €49 |
| NER-080114002 | R-100 V2 Lens Adapter 30.5 mm X 0.50 mm | €49 |
| NER-080114003 | R-100 V2 Lens Adapter 40.5 mm X 0.50 mm | €49 |
| NER-035027602 | Fresnel (focusing) Lens R-100 V2, FL = 70mm | €81 |
| NER-035027603 | Fresnel (focusing) Lens R-100 V2, FL = 102mm | €81 |
| NER-035027604 | Fresnel (focusing) Lens R-100 V2, FL = 127mm | €81 |
| NER-035027605 | Fresnel (focusing) Lens R-100 V2, FL = 152mm | €89 |

NERLITE® AREA SPOT ARRAYS

Spot 40mm Continuous

| Part Number | Description | List Price |
|---------------|---|------------|
| NER-011650320 | S-40, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €253 |
| NER-011650323 | S-40, R LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €253 |
| NER-011651220 | S-40, W LED-ND, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | €300 |

Power Supply (60, 70, 100 mm continuous)

| | | |
|---------------|---|------|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 |
|---------------|---|------|

Power Supply Cordsets

| | | |
|---------------|--|-----|
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | €48 |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | €48 |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | €48 |

Spot 40mm Strobed

| | | |
|---------------|---|------|
| NER-011650305 | S-40, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €253 |
| NER-011651211 | S-40, W LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €300 |
| NER-011650304 | S-40, R LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €253 |
| NER-011651204 | S-40, W LED-ND, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | €300 |

Power Supply/Controllers

| | | |
|---------------|---|--------|
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | €169 |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | €671 |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | €957 |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | €1,232 |

Power Supply Cordsets

| | | |
|------------|--|-----|
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | €48 |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | €44 |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | €44 |

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NERLITE® SCDI®

| 25 mm Continuous | | List Price |
|--|--|------------|
| Part Number | Description | |
| NER-011301300 | SCDI-25, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 738 |
| NER-011301302 | SCDI-25, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 983 |
| 50 mm Continuous | | |
| NER-011304004 | SCDI-50 V2, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,230 |
| NER-011304014 | SCDI-50 V2, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,364 |
| 75 mm Continuous | | |
| NER-011302005 | SCDI-75, R LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,332 |
| NER-011302012 | SCDI-75, W LED-D, 24V-C, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,767 |
| Power Supply (25, 50,75 mm continuous) | | |
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 |
| Power Supply Cordsets | | |
| NER-030028300 | AC Power Cord for DSPxx Power Supply, US | € 48 |
| NER-030028400 | AC Power Cord for DSPxx Power Supply, EU | € 48 |
| NER-030028500 | AC Power Cord for DSPxx Power Supply, UK | € 48 |

Note: For high speed or high intensity applications strobed lights require a light + controller + power supply

| 25 mm Strobe | | List Price |
|--------------------------|---|------------|
| Part Number | Description | |
| NER-011301301 | SCDI-25, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 738 |
| 50 mm Strobe | | |
| NER-011304002 | SCDI-50 V2, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,230 |
| NER-011304012 | SCDI-50 V2, W LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,364 |
| 75 mm Strobe | | |
| NER-011302001 | SCDI-75, R LED-D, 24V-S, 4.5M (15 ft.) Cbl w/Flying Leads | € 1,211 |
| Power Supply/Controllers | | |
| NER-011504100 | DSP60 24VDC 2.5A DIN Mount Power Supply | € 169 |
| 98-000152-01 | NL200 Lighting Controller (Front Panel Control Only)* | € 671 |
| 98-000152-02 | NL220 Lighting Controller (Ethernet Control Only)* | € 957 |
| 98-000152-03 | NL220F Lighting Controller (Ethernet Control Only with Fast Strobe Capability)* | € 1,232 |
| Power Supply Cordsets | | |
| 030-028300 | AC Power Cord for DSPxx Power Supply, US | € 48 |
| 030-028400 | AC Power Cord for DSPxx Power Supply, EU | € 48 |
| 030-028500 | AC Power Cord for DSPxx Power Supply, UK | € 48 |

| GigE Cameras | | List Price |
|------------------------------------|--|------------|
| Part Number | Description | |
| 98-000113-01 | Visionscape GigE Camera - WVGA Mono CMOS (CMGC03 - 752 x 480 pixels) | € 1,000 |
| 98-000114-01 | Visionscape GigE Camera - WVGA Color CMOS (CMGC03C - 752 x 480 pixels) | € 1,000 |
| Visionscape PC Boards and Software | | |
| Part Number | Description | List Price |
| GMV-VS81-0FP0 | VISIONSCAPE 0800 PCI BOARD, INCLUDES VISIONSCAPE SOFTWARE | € 5,280 |

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HawkEye 1500 Readers

| Part Number | Description | List Price |
|---------------|---|------------|
| FIS-HE15-0CS0 | HAWKEYE 1510 DPM READER CS/C MOUNT LENS* | €2,918 |
| FIS-HE15-1HD0 | HAWKEYE 1515HD DPM READER ON AXIS LIGHT | €2,918 |
| FIS-HE15-1LD0 | HAWKEYE 1515LHD DPM READER ON AXIS LIGHT | €3,335 |
| FIS-HE15-1MD0 | HAWKEYE 1515MD DPM READER ON AXIS LIGHT | €3,335 |
| FIS-HE15-1SD0 | HAWKEYE 1515SHD DPM READER ON AXIS LIGHT | €3,335 |
| FIS-HE15-1UD0 | HAWKEYE 1515UHD DPM READER ON AXIS LIGHT | €3,335 |
| FIS-HE15-2HD0 | HAWKEYE 1525HD DPM READER DARK FIELD LIGHT | €3,335 |
| FIS-HE15-2SD0 | HAWKEYE 1525SHD DPM READER DARK FIELD LIGHT | €3,335 |
| FIS-HE15-2UD0 | HAWKEYE 1525UHD DPM READER DARK FIELD LIGHT | €3,335 |
| FIS-E1515VLHD | HAWKEYE 1515VLHD VLNG-DEN BRIGHT FIELD READER | €3,335 |
| FIS-E1515HDXL | HAWKEYE 1515HD WITHOUT LASER | €3,085 |

All HE 15XX readers come with base mount adaptor and serial cable standard. All that is needed is a power supply.

HawkEye 1500 Verifiers

| Part Number | Description | List Price |
|---------------|---|------------|
| FIS-HE15-1HV0 | HAWKEYE 1515HD DPM VERIFIER ON AXIS LIGHT* ¹ | €4,170 |
| FIS-HE15-1LV0 | HAWKEYE 1515LHD DPM VERIFIER ON AXIS LIGHT* ¹ | €4,170 |
| FIS-HE15-1MV0 | HAWKEYE 1515MD DPM VERIFIER ON AXIS LIGHT* ¹ | €4,587 |
| FIS-HE15-1SV0 | HAWKEYE 1515SHD DPM VERIFIER ON AXIS LIGHT* ¹ | €4,587 |
| FIS-HE15-1UV0 | HAWKEYE 1515UHD DPM VERIFIER ON AXIS LIGHT* ¹ | €4,587 |
| FIS-HE15-2CV0 | HAWKEYE 1510 DPM VERIFIER CS/C MOUNT LENS* ¹ | €4,587 |
| FIS-HE15-2HV0 | HAWKEYE 1525HD DPM VERIFIER DARK FIELD LIGHT* ¹ | €4,587 |
| FIS-HE15-2SV0 | HAWKEYE 1525SHD DPM VERIFIER DARK FIELD LIGHT* ¹ | €4,587 |
| FIS-HE15-2UV0 | HAWKEYE 1525UHD DPM VERIFIER DARK FIELD LIGHT* ¹ | €4,587 |

¹Verifier versions support ISO 16022, ISO15416, Custom Verification, and AIM DPM – 1 – 2006

All HE 15XX readers come with base mount adaptor and serial cable standard. All that is needed is a power supply.

HawkEye 1500 Accessories

| Part Number | Description | List Price |
|-----------------|--|------------|
| 98-AC00-0BM5 | HAWKEYE 1500 BASE MOUNTING ADAPTER | €46 |
| 98-AC00-0EB0 | HAWKEYE 1500 I/O EXPANSION BOARD | €659 |
| 98-AC00-0EC5 | HAWKEYE 1500 IP65 ENCLOSURE GLASS WINDOW | €1,511 |
| 98-AC00-0EC6 | HAWKEYE 1500 IP65 ENCLOSURE PCARB WINDOW | €1,511 |
| 98-AC00-0PC6 | HAWKEYE 1500 PWR CABLE FLYING LEADS 2 METERS | €100 |
| 98-AC00-0SA0 | 3 COLOR LIGHT STACK CONNECTS TO HAWKEYE 1500 | €501 |
| 98-AC00-0SC0 | HAWKEYE 1500 SERIAL COMMUNICATIONS CABLE | €38 |
| 98-HESC010 | CABLE, HAWKEYE 1500 SERIAL INTERFACE 10FT | €42 |
| 98-HEDSL | HAWKEYE 1500/1600 DEMO STAND W/LG SHAFT | €217 |
| 98-HE15-0PS0 | HAWKEYE 1500 POWER SUPPLY 24V100-250V 50-60 HZ | €146 |
| 98-LG00-0XX0 | HAWKEYE 1500 LIGHT - LED RING LIGHT 25.5MM MOUNT * | €501 |
| 98-LG14-0XX0 | HAWKEYE 1500 LIGHT MOUNT - DF100 OR DF150 (HELTMA 1L-M) * | €321 |
| 98-LG15-0XX0 | HAWKEYE 1500 LIGHT MOUNT- R100 RING (HELTMA 2L-M) * | €346 |
| 98-LG16-0XX0 | HAWKEYE 1500 LIGHT MOUNT- R60 RING (HELTMA 3L-M)* | €292 |
| 98-LG17-0XX0 | HAWKEYE 1500 LIGHT MOUNT-DOAL 50 (HELTMA 4L-M) * | €301 |
| 98-LG18-0XX0 | HAWKEYE 1500 STROBE INTERFACE KIT * | €973 |
| 98-HEDS | HAWKEYE DEMO STAND | €217 |
| 98-HECONNPS | HAWKEYE 1500 POWER SUPPLY CONNECTOR | €21 |
| 98-HECONNIO | I/O CONNECTOR & GRND TAB KIT FOR HAWKEYE 1500 | €38 |
| 98-HEBMA4 | HAWKEYE 15 TO HAWKEYE 1515 BASE MOUNT ADAPTER | €79 |
| 98-99000561 | DIN-RAIL MOUNTED EXT I/O TERMINAL BLOCK | €109 |
| 98-96601833 | EXTERNAL I/O INTERFACE CABLE 25 FEET | €79 |
| 98-96601832 | EXTERNAL I/O INTERFACE CABLE 15 FEET | €63 |
| 98-96601831 | EXTERNAL I/O INTERFACE CABLE 10 FEET | €58 |
| NER-011601504 | HAWKEYE 1510 RED DF LIGHT - DF100 DARK FIELD, RED LED, 12V-C, MOLEX CON* | €518 |
| NER-011605096 | HAWKEYE 1510 RED RING LIGHT - R60 V2 RING, RED LED, 12V-C, MOLEX CON* | €363 |
| NER-011604805 | HAWKEYE 1510 RED RING LIGHT - R70-2 V2 RING, RED LED, 12V-C, MOLEX CON* | €363 |
| NER-011607006 | HAWKEYE 1510 RED RING LIGHT - R100-2 V2 RING, RED LED, 12V-C, MOLEX CON* | €467 |
| NER-011200913 | HAWKEYE 1510 RED DOAL LIGHT - DOAL-50 V2, RED LED-D,12V-C,MOLEX CON * | €568 |
| NER-011200935 | HAWKEYE 1510 BLUE DOAL LIGHT - DOAL-50 V2, BLUE LED-D,12V-C, MOLEX CON | €568 |
| NER-011023801 | HAWKEYE 1515 - BRIGHTFIELD, BLUE LED-F, 10V-C | €568 |
| 98-UA10-0CC0 | UID CALIBRATION TEST CARD | €146 |
| FIS-HEDPMVER-A0 | HE DPM VERIFIER LICENSE ONLY ^A | €1,377 |
| FIS-HEDPMDEMO** | Demo Kit, HE1525 Verifier - w HE1525HD, P/S, cables, stand, | €5,046 |

Prices and Specifications Subject to Change

€100 Minimum Order

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verifier lic., stack light

| Visionscape I-PAK | | List Price |
|-------------------|--|------------|
| Part Number | Description | |
| GMV-IP16-0HE1 | I-PAK HE Pharma Industry 21 CFR part 11 GUI for VS-1 Smart Camera, V 3.7.3 | €875 |

Prices and Specifications Subject to Change

Tel: **425.226.5700**
Fax: **425.226.8250**

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