



DPM TECHNOLOGY

Direct Part Marking (DPM) is a process that allows users to imprint a bar code directly on an item instead of printing the code on a paper label. Different technologies are available to directly mark objects: laser / chemical etching, dot peening and ink jet printing. Each of these methods have specific advantages and disadvantages in terms of durability, cost and ease of reading.

The Gryphon GD4400-DPM 2D imager is an area imager specifically conceived to address DPM code reading in electronic industries.

READING CAPABILITIES

The Gryphon GD4400-DPM series includes the latest optics and software from Datalogic to make the reading of codes with DPM easy and intuitive. The typical reading distance is from contact to 4-5 cm / 1.5-1.9 in, depending on the DPM technology used, the code resolution and the material and surface type. The scanner is also capable of reading standard bar codes on printed labels. High density optics allows the capture of very small, high-resolution codes in a range from near contact up to 15.0 cm / 5.9 in.

SOFT WHITE ILLUMINATION

The intuitive aiming system provides the highest first-pass reading rates. A soft-pulsed white illumination light results in reduced flashes and is very gentle to the eyes. The highly visible 4-Dot aimer provides a clear indication of the reading area, making targeting codes quick and easy. Datalogic's patented 'Green Spot' technology provides additional visual good-read confirmation which is ideal for quiet environments like bedside patient care. Datalogic Aladdin™ configuration software and Remote Host Management software provide simple tools to manage deployed devices and keep them synchronized across an enterprise.



FEATURES

- Supports Direct Part Marked (DPM) codes
- Soft white light illumination
- Image capture and document scanning capabilities
- Extremely snappy reading performance
- Omnidirectional reading of 1D, 2D and postal codes plus stacked and composite codes
- Advanced motion tolerance optics
- Highly visible 4-Dot aimer with center cross for targeted scanning
- Datalogic's patented 'Green Spot' for good-read feedback
- EASEOFCARE Service Plans offer a wide range of service options to protect your investment, ensuring maximum productivity and ROI

INDUSTRY-APPLICATIONS

- Manufacturing Shop Floor
 - Work-in-Progress
 - Sub-Assembly
 - Component Tracking
 - Quality Control
 - Time and Cost Analysis
 - Line Inventory Control
- Electronic Industry
 - PCB part traceability
 - Sub-assembly tracking
 - Quality Control
 - Time and cost analysis

TECHNICAL SPECIFICATIONS

DECODING CAPABILITY

DIRECT PART MARKING (DPM)	Codes are readable when marked by laser or chemical etching or ink jet printing. Autodiscriminates all standard 1D codes including GS1 DataBar™ linear codes.
1D / LINEAR CODES	Aztec Code; China Han Xin Code; Data Matrix; MaxiCode; Micro QR Code; QR Code
2D CODES	Australian Post; British Post; China Post; IMB; Japanese Post; KIX Post; Korea Post; Planet Code; Postnet; Royal Mail Code (RM4SCC)
POSTAL CODES	EAN/JAN Composites; GS1 DataBar Composites; GS1 DataBar Expanded Stacked; GS1 DataBar Stacked; GS1 DataBar Stacked Omnidirectional; MacroPDF; MicroPDF417; PDF417; UPC A/E Composites
STACKED CODES	

ELECTRICAL

CURRENT	Operating (Typical): <160 mA @ 5 VDC Standby/Idle (Typical): 65 mA @ 5 VDC
INPUT VOLTAGE	4.2 - 5.25 VDC

ENVIRONMENTAL

AMBIENT LIGHT	0 - 100,000 lux
DROP RESISTANCE	Withstands repeated drops from 1.8 m / 5.9 ft onto a concrete surface
ESD PROTECTION (AIR DISCHARGE)	16 kV
HUMIDITY (NON-CONDENSING)	5 - 95%
PARTICULATE AND WATER SEALING	IP52
TEMPERATURE	Operating: 0 to 50 °C / 32 to 122 °F Storage/Transport: -20 to 70 °C / -4 to 158 °F

INTERFACES

INTERFACES	RS-232 / USB / Keyboard Wedge / Wand Multi-Interface
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PHYSICAL CHARACTERISTICS

COLORS AVAILABLE	Black/Yellow
DIMENSIONS	18.1 x 7.1 x 10.0 cm / 7.1 x 2.8 x 3.9 in
WEIGHT	195.0 g / 6.9 oz

READING PERFORMANCE

IMAGE CAPTURE	Graphic Formats: BMP, JPEG, TIFF; Greyscale: 256, 16, 2
IMAGER SENSOR	Wide VGA: 752 x 480 pixels
LIGHT SOURCE	Aiming: 650 nm VLD Illumination: White LEDs
MOTION TOLERANCE	25 IPS
PRINT CONTRAST RATIO (MINIMUM)	25%
READING ANGLE	Pitch: +/- 40°; Roll (Tilt): 180°; Skew (Yaw): +/- 40°
READING INDICATORS	Beeper (Adjustable Tone); Datalogic 'Green Spot' Good Read Feedback; Good Read LED
RESOLUTION (MAXIMUM)	1D Linear: 3 mils Data Matrix: 5 mils PDF417: 4 mils

READING RANGES

TYPICAL DEPTH OF FIELD	Minimum distance determined by symbol length and scan angle. Printing resolution, contrast, and ambient light dependent.
1D / 2D CODES	Code 39: 3 mils: 2.4 to 9.1 cm / 0.9 to 3.6 in Code 39: 5 mils: 0.8 to 11.3 cm / 0.3 to 4.5 in Data Matrix: 5 mils: 2.8 to 6.1 cm / 1.1 to 2.4 in EAN -13: 13 mils: 1.1 to 17.2 cm / 0.4 to 6.8 in PDF417: 4 mils: 1.8 to 6.8 cm / 0.7 to 2.7 in PDF417: 10 mils: 0 to 14.3 cm / 0 to 5.6 in Code: 6.7 mils: 2.1 to 4.2 cm / 0.8 to 1.7 in

SAFETY & REGULATORY

AGENCY APPROVALS	The product meets necessary safety and regulatory approvals for its intended use. The Quick Reference Guide for this product can be referred to for a complete list of certifications.
ENVIRONMENTAL COMPLIANCE	Complies to China RoHS; Complies to EU RoHS
LASER CLASSIFICATION	Caution Laser Radiation - Do not stare into beam CDRH Class II; IEC 60825 Class 2

UTILITIES

DATALOGIC ALADDIN™	Datalogic Aladdin configuration program is available for download at no charge.
OPOS / JAVAPOS	JavaPOS Utilities are available for download at no charge. OPOS Utilities are available for download at no charge.
REMOTE HOST DOWNLOAD	Available on request

WARRANTY

WARRANTY	5-Year Factory Warranty
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ACCESSORIES

Mounts/Stands

- 11-0360 Holder, Multi-Purpose, Black
- HLD-G040-BK Desk/Wall Holder, G040, Black
- STD-AUTO-G040-BK Smart Stand, G040, Black
- STD-G040-BK Basic Stand, G040, Dark

