

KDC User Manual

Rev 2.85T.A3 (KDC20/30/410/411/415/420/421/425/430)

3.x7.A3 (KDC100/200/250/270/300/350/350WA/450/470)

A01.05.08 (KDC500)

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SmartSled[®] is a registered trademark and property of KOAMTAC, Inc.

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS UNIT TO ANY TYPE OF MOISTURE.

DO NOT LOOK DIRECTLY INTO LASER OR POINT THE LASER INTO ANOTHER PERSON'S EYES.

EXPOSURE TO THE BEAM MAY CAUSE EYE DAMAGE.

CAUTION:

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

Patents:

Certain KDC Products may be covered by the following issued US patents numbers 7769917, 7954710, 8126399, 8295368, 8346979, 8347366, 8371506, 8483614, 8832323; Korea patents numbers 10-1383407, 10-1354252 and may be patent pending elsewhere, UK publications GB2492615, GB2514746; Korea publication 1020120128598.

Regulatory Compliance

US



FCC ID: VH9KDC20, VH9KDC30, VH9KDC100, VH9KDC200, VH9KDC250, VH9KDC270, VH9KDC300, VH9KDC350, VH9KDC350WA, VH9KDC400, VH9KDC450, VH9KDC470, VH9KDC500A

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and may radiate radio frequency energy. It may cause harmful interference to radio communications if not installed and used in accordance with the instructions. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which may be determined by turning the equipment off and on, the user is encouraged to try to correct the interference with one or more of the following measures:

- 1. Reorient / Relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment into an outlet on a different circuit than the receiver.
- 4. Consult with the dealer or an experienced radio/TV technician for help.

WARNING:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Information

This equipment complies with FCC RF exposure limit requirements set for in an uncontrolled environment.

Europe 2200

Laser Compliance

KDC20/100/200/250/270L/350L/410/411/415/470L



Complies with US 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice no. 50, dated June 24, 2007 and IEC 60825-1 (Ed. 2.0)

Complies with IEC60825-1:1993 + A1:1997 + A2:2001

Battery Warning

- This device contains a rechargeable NiMH. Never throw the battery into a fire, as that could cause the battery to explode.
- Never short-circuit the battery by bringing the terminals in contact with another metal object. This could cause personal injury, a fire, and/or damage to the battery.
- Never dispose of used batteries with other ordinary solid wastes. Batteries contain toxic substances.
- Dispose of used batteries in accordance with the prevailing community regulations that apply to the disposal of batteries. Cover the metal terminals with insulating tape (this is to prevent accidental short-circuiting).
- Never expose the battery to any liquid.
- Always keep the battery out of reach of infants or small children.
- Never shock the battery by dropping it or throwing it.
- Dispose of a spent or damaged battery promptly.

WARNING: RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.

Product Disposal

This device should not be placed in municipal waste. Please check local regulations for disposal of electronic products.

Bluetooth®

Core Specification: 2.1+EDR

Apple®

Made for iPhone, Made for iPod, Made for iPad

Samsung®

Compatible with Galaxy Series

Warranty Policy

KOAMTAC ONE YEAR LIMITED WARRANTY

KOAMTAC products are warranted to be free from defects in materials or workmanship for one (1) year from the date of purchase from an authorized dealer of KOAMTAC products. Within this period, we will, at our sole discretion, repair or replace any components that fail in normal use. Such repairs or replacement will be made at no charge to you for parts and/or labor, provided that you shall be responsible for any transportation charges. Replacement products may be new or refurbished at our discretion.

This warranty does not apply to: (i) cosmetic damage, such as scratches, nicks, stains and dents; (ii) consumable parts, such as batteries, unless product damage has occurred due to a defect in materials or workmanship; (iii) damage caused by

accident, abuse, misuse, water (in excess of specifications), flood, fire, or other acts of nature or external causes; (iv) damage caused by service performed by anyone who is not an authorized service provider of KOAMTAC; or (v) damage to a product that has been modified or altered without the prior written permission of KOAMTAC.

Repairs have a ninety (90) day warranty. If the unit sent in is still under its original warranty, then the new warranty will be the longer of ninety (90) days or the balance of the original one year warranty.

THE WARRANTIES AND REMEDIES CONTAINED HEREIN ARE EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES EXPRESS, IMPLIED, OR STATUTORY, INCLUDING ANY LIABILITY ARISING UNDER ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, STATUTORY OR OTHERWISE. Subject to applicable law, in no event shall our liability exceed the purchase price of the Hardware.

RETURN

For warranty returns, you must pack your KOAMTAC product in its original packaging and include all accessories and documentation. We reserve the right to charge for any damage to the KOAMTAC product, and missing part fees may apply.

Please contact Customer Service prior to returning any product to receive a return authorization form and RMA number. You will be responsible for, and pre-pay, all return shipping charges and shall assume all risk of loss or damage to product while in transit to us. We recommend that you use a traceable method of shipping for your protection. We will pay for shipping to return any product to you.

Email us at rma@koamtac.com to obtain an RMA number. Once you have obtained the RMA number, please send us your purchased KOAMTAC product with the RMA number clearly marked on the outside of the package and on the shipping slip if you choose to use traceable carriers such as UPS or FEDEX. Shipping fees for returns are your responsibility. Return shipping instructions and return address will be included in your RMA document provided by KOAMTAC.

1.Introduction

Congratulations on purchasing a revolutionary KOAMTAC KDC.

KOAMTAC's KDC works with a wide variety of portable applications. Use it independently or as a PC, PDA, or smartphone/tablet accessory. (*KDC350WA: KDC350WA follows KDC350 unless mentioned explicitly)

FEATURES	KDC20	KDC30	KDC100	KDC200	KDC250	KDC270	KDC300	KDC350	*KDC350 WA	KDC400	KDC450	KDC470	KDC500
USB CONNECTIONS	1	1	2	1	1	1	1	1	1	2	2	1	1
RECHARGEABLE BATTERY	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SCAN ENGINE	Laser/ CCD	Imager	Laser	Laser	Laser	Laser/ CCD/ Imager	Imager	Laser/ CCD/ Imager	CCD/ Imager	Laser/ Imager	Imager	Laser/ CCD/ Imager	CCD/ Imager
AUTOMATIC DATA UPLOAD	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
MAXIMUM STORED BARCODE (EAN13)	7,680	7,680	409,600	409,600	409,600	409,600	409,600	409,600	409,600	4,096	409,600	409,600	153,600
KTSync* SOFTWARE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SDK	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
SUPPORTS WINDOWS XP, 7, 8 & 10	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
ANDROID, BLACKBERRY, IOS, WINDOWS PHONE 8.1 & 10	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
BLUETOOTH	YES	YES	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
GPS	NO	NO	NO	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO
NFC	NO	NO	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	YES
RFID(HF)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	NO
UHF	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	YES	NO
MSR	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	YES
ICCR (IC CARD READER)	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	YES
USB DISK	NO	NO	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
USB HID	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	NO	NO
WIFI	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO
CDMA	NO	NO	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO

Table 1 - Features of KDC

1.1 KDC Package Contents

The standard KDC package contains:

- 1. One KDC
- 2. USB Cable
 - KDC20/30 (N/A)
 - KDC100/200/250/300/350 (8pin Ultra-mini USB Cable)
 - KDC270/400/450/470/500 (5pin Micro USB Cable)
- One Lanyard (KDC20/30/100/200/250/300/270/350) or One Hand Strap (KDC400/450/470/500)
- 4. One KDC Protective Rubber Boot (KDC100/200/250/300).

The following KDC accessories are available to purchase at koamtac.com or by contacting a local reseller.

- Protective Rubber Boots for KDC20/30/350.
- SmartSled® cases for KDC200/250/300/400/450/470.
- Charging Cradles for
 KDC20/30/100/200/250/300/270/350/411/421/430/450/470/500
- Finger Trigger Gloves for KDC200/250/300/270/350
- Finger Trigger Glove Adaptor for KDC200/250/300/270/350
- KDC350/470/500 Hardpack Battery Charging Adaptor
- KDC500 SmartSled® Adaptor
- KDC Batteries

Note KDC400/450/470 SmartSled® cases and KDC500 SmartSled Adaptors are sold separately. Depending on the distributor, package contents may vary.





KDC20/30 Package Contents









KDC100/200/250/300 Package Contents









KDC400/450 /470 Package Contents











KDC500

KDC350WA Package Contents

1.2 KDC Characteristics

Before using the KDC, the user should become familiar with its physical characteristics. Refer to Figure 2, 3, 4, and 5 below. These figures indicate the placement of the SCAN, UP, DOWN and DELETE buttons, OLED display, LED, and ports on the KDC.

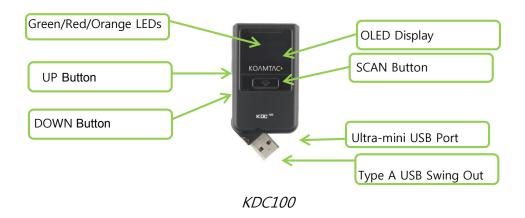
Although KDC models consist of similar buttons and LEDs, each model has different characteristics for its own purpose of use. The KDC20/30/100 includes a swing-out USB connector and the KDC350/500 has a keypad.

KDC20/30 Barcode Reader and Data Collector



KDC30

KDC100 Barcode Reader and Data Collector



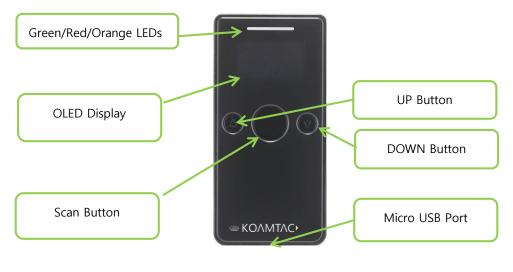
KDC200/250/300/270/350 Barcode Reader and Data Collector



KDC200



KDC250/300

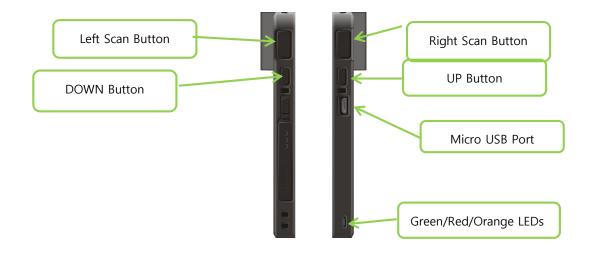


KDC270



KDC400/450/470 Barcode Reader and Data Collector





KDC470

KDC500 Mobile POS



KDC500

1.3 Keypad Functionality for KDC350

Menu	Enables the user to enter or exit the KDC Menu. While in menu mode, press once to exit.
Shift	Enables the user to change character input mode from capital letters to small letters, and vice versa.
Mode	Enables the user to switch between ABC and number input mode.
(UP button)	While in the KDC menu, press this button to go up on the selection bar. While on the main screen, press this button and the KDC will try to connect to a BT host device.
(DOWN button)	While in the KDC menu, press this button to go down on the selection bar. While on the main screen, press this button to toggle the iOS soft keyboard (if the KDC is connected in HID-iOS mode).
1 @ 2ABC 3DEF (Number button)	Input numbers or characters
# (Enter button)	Press to finish data input (if "Enter Key" option is disabled). Press to finish data input and move cursor to next line (if "Enter Key" option is enabled).
(Delete button)	Press to delete the last character or number input
(Power On/Off button)	Press both Scan button and Down button for more than 5 seconds at the same time to turn KDC350 power on and off.

This button may be used in conjunction with a number key to control the KDC settings shown below.

Fn (Function button)

FN + 1	Keypad light On/Off
FN + 2	GPS Power On/Off (KDC350G series only)
FN + 3	NFC Power On/Off (KDC350N series only
FN + 4	Enter Bluetooth Pairing Mode
FN + 5	Bluetooth Power On/Off
FN + 6	Change Bluetooth profile
FN + 0	Factory Default

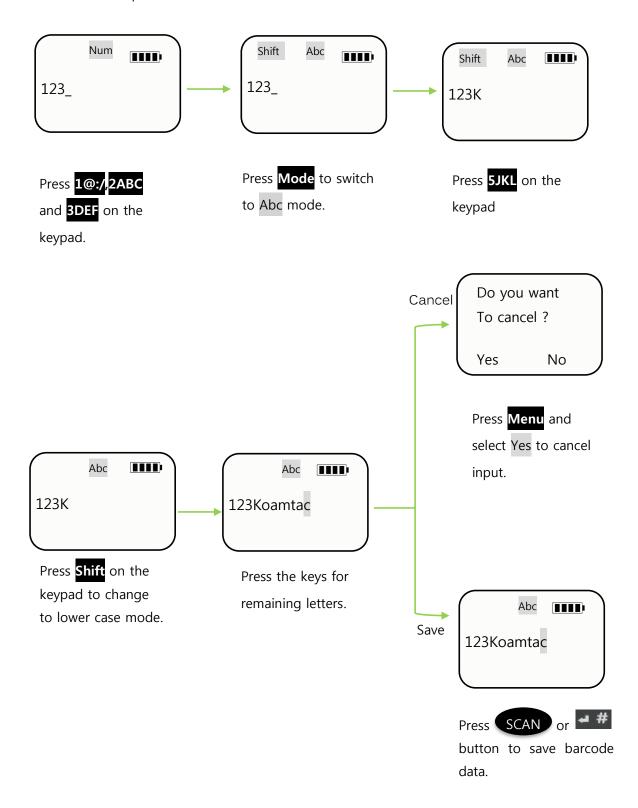
1.4 Keypad Functionality for KDC500

MENU (Menu/Down button)	While in the KDC500 menu, press this button to scroll down the selection bar. While on the main screen, press this button for 5 seconds then the KDC500 will enter the KDC500 menu mode.
fn (FN/Up button)	While in the KDC500 menu, press this button to scroll up the selection bar. While on the main screen, press this button for 5 seconds then the KDC500 will enter the KDC500 BT Service menu.
	While the KDC500 waits for Alpha-Numeric key entry, this button allows the user to switch between ABC and number input mode.
1	Input numbers or characters
(Enter button)	Press to finish data input.
CLEAR	Press to delete the last character or number input.

(Delete button)	
Cancel button)	Press to cancel data input.

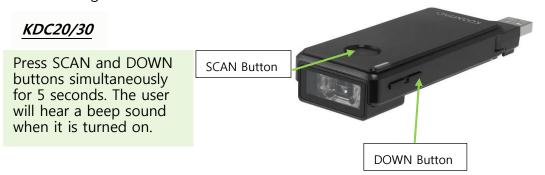
1.5 Input data by using a keypad (KDC350)

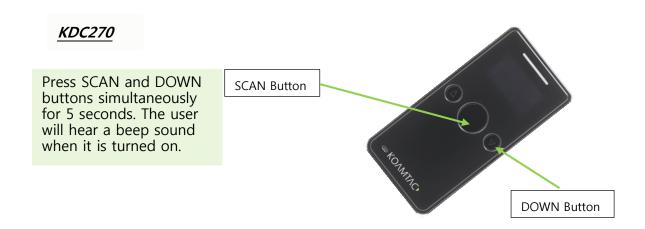
- When the KDC350 shows a blank main screen, you may start pressing numbers or characters of the barcode data that needs to be input.
- See an example below: How to save the barcode data "123Koamtac".



1.6 Turn on the power of KDC20/30/270/350/400/470/500

KDC20/30/270/350/400/470/500 have power on/off switch. Please turn on the power first before using the device.







KDC400



KDC500

Press Left and Right SCAN buttons simultaneously for 5 seconds. The user will see a KOAMTAC logo in the display and hear a beep sound when it is turned on.



Figure 1 - How to turn on the power in KDC20/30/270/350/400/470/500

2.Installation

2.1 Bluetooth Pairing

The KDC may read and store barcode data independently, but it may also be used in conjunction with a PC, PDA, or smart device.

In order to read barcode data with your KDC wirelessly, the user must first pair the KDC and smart device via Bluetooth. If previously paired and no changes have been made in the smart device's Bluetooth settings, the smart device will always recognize the KDC that has previously been paired. However, if changes have been made, the user may need to go through the pairing process again. The user may also refer to **Chapter 4**. **Bluetooth** for more information about Bluetooth pairing.

Preparing for Pairing

Select a Bluetooth profile. There are two ways to set up a Bluetooth profile. The user may establish a Bluetooth profile manually (on the scanner) or by scanning a programming barcode as shown below.

KDC 20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L (1D)

Bluetooth Profile SPP



Bluetooth Profile HID iOS



Bluetooth Profile MFi



Bluetooth Profile SPP2.0



Bluetooth Profile HID normal



Note

For PCI PTS compliance, KDC500L supports only Bluetooth Profile SPP and MFi.

KDC30/300/270C/350C/420/421/425/450/470C/500C (2D)

Bluetooth Profile SPP



Bluetooth Profile MFi



Bluetooth Profile HID normal



Bluetooth Profile HID iOS



Bluetooth Profile SPP2.0



Note

For PCI PTS compliance, KDC500C supports only Bluetooth Profile SPP and MFi.

Some KDCs are equipped with an LCD screen (KDC100/200/250/300/270/350/500), the user may select a Bluetooth profile from the **ConnectDevice** menu as shown below.



Figure 2 - Selecting a Bluetooth device type from the KDC menu

Pairing

First Option: Connect the KDC from a host (PC or Smart Device)

This method is recommended for first-time users or when the user is only connecting a few KDCs.

- 1. Put the KDC into **Pairing** mode
 - Select the correct pairing barcode and scan below for your KDC model, or

KDC 20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L (1D)



KDC30/300/270C/350C/420/421/425/470C/500C (2D)



Pairing

• Select Pairing from the KDC menu.

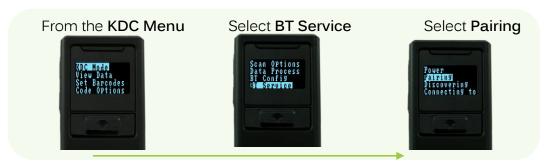


Figure 3 - Selecting Pairing mode in KDC

• Press the Scan button for three seconds in order to enter into Pairing mode.

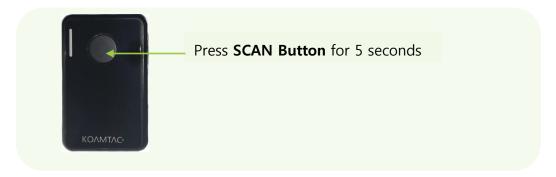


Figure 4 - Pairing mode button

• For the KDC500, press the FN button for five seconds in order to directly enter the BT Service menu while it is not in the sleep mode.

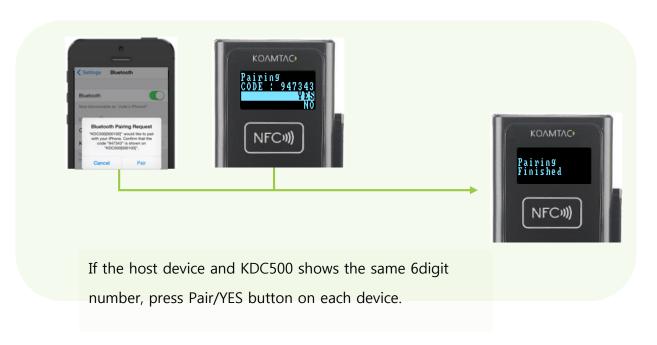


Figure 5 - Pairing menu shortcut button in KDC500

2. On the host device, go to **Settings -> Bluetooth**, and select the KDC that needs to be paired. The KDC and host device will now communicate with each other.



Note For PCI PTS compliance, KDC500 requires Numeric Comparison method.



3. After it has been installed, open KTSync and it will automatically find and connect to the KDC. (Refer to 2.2 KOAMTAC Installation Wizard for more information about installing KTSync).

Second Option: Connect the host device from the KDC by scanning a Special Bluetooth MAC Address barcode

This method is recommended for advanced users or when the application or process requires the pairing of multiple KDCs to multiple host devices on a regular basis.

1. Find the **Bluetooth MAC Address** of the host device.



Figure 6 - Finding Bluetooth MAC Address

2. Create the **Bluetooth MAC Address Barcode** according to the format below as an example based on "http://www.terryburton.co.uk/barcodewriter/generator/".

For 1D scanners like

KDC20/200/250/270L/270D/350L/410/411/415/470L/470D/500L,

Bluetooth MAC Address: 1234567890AB Barcode Type (Symbology): Code 128 Contents: ^FNC3651234567890AB

Options: parsefnc

For 2D scanners like KDC30/300/270C/350C/420/421/425/450/470C/500C,

Bluetooth MAC Address: 1234567890AB Barcode Type (Symbology): QR Code

Contents: ^022M^013KDC651234567890AB.

Options: eclevel=M parse

3. Print the Bluetooth MAC Address

Note:

2D barcode scanners such as the KDC30/270C/300/350C/420/421/425/450/470C/500C models may read barcodes that have been printed QR barcodes that are on a LCD screen.

1D CCD barcode scanners may read barcodes that have been printed barcodes that are on a LCD screen.

1D laser barcode scanners such as the KDC20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L models are not designed to read barcodes from a LCD screen and will only read printed barcodes.

4. Connect the KDC to the host device by scanning the Bluetooth MAC Address Barcode.

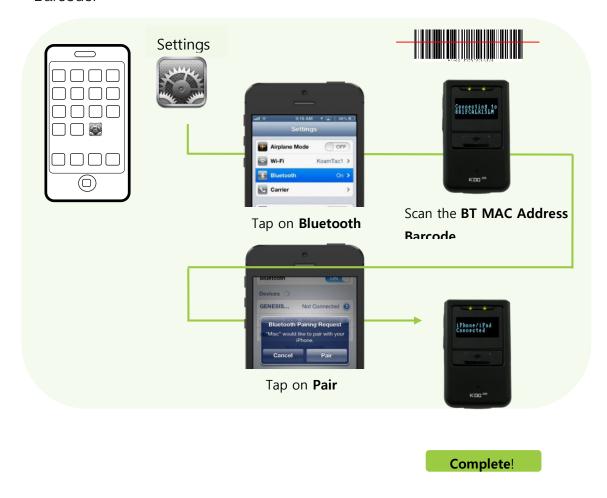


Figure 7 - Connecting KDC with a smart phone by scanning Bluetooth MAC Address Barcode

5. Open KTSync after it has been installed, and it will automatically find the KDC and connect. (Refer to **2.2 KOAMTAC Installation Wizard** for more information about installing KTSync)

2.2 KOAMTAC Installation Wizard

Windows 7, 8 & 10

WARNING: DO NOT CONNECT KDC TO USB PORT PRIOR TO DRIVER INSTALLATION

- 1. Insert KOAMTAC Installation CD into the computer's CD drive.
- Click Start icon then My Computer icon. A list of devices on the computer will be displayed, including the disk drive containing the KOAMTAC Installation CD.
- 3. Click on the KOAMTAC Installation CD icon, then the Setup directory. Click on the PC_Setup.exe file, which will execute the KTSync Setup Wizard.

Note

• If the KTSync Setup Wizard locates an older version of KTSync on the computer, the user will be prompted to remove the older program before installing the new version. Select Remove KTSync then click Finish. When removal is complete, click Close. Go to Step 2 to run KTSync Setup Wizard.

KTSync Setup Wizard

To install KTSync, follow the steps shown in the images below.

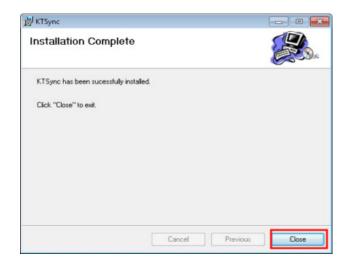
1. In the KTSync Setup Wizard window, click **Next**.



2. In the License Agreement window, select "I Agree" and click Next.



3. In the KTSync Installation Complete window, click **Close** and wait for the Device Driver Installation Wizard.



4. In the Windows Security window, click **Install** to complete installation.



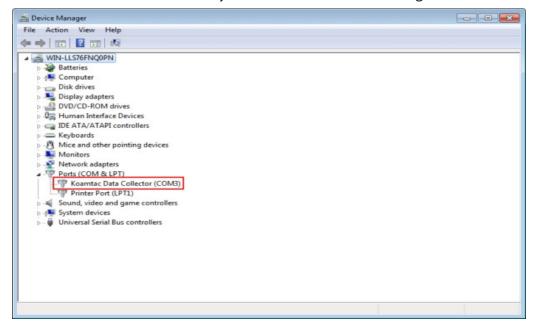
Connect KDC to Computer

Using the USB cable included with the KDC or built-in swing out USB connector, follow the directions below.

- 1. Connect KDC to PC.
- 2. Wait until the computer beeps and/or displays the message Found New Hardware.

Verify COM Port Address

The installed COM Port may be verified in Device Manager.



Android

- Download and install KTSync from the Android Play Store.
 https://play.google.com/store/apps/details?id=com.koamtac.ktsync&hl
- BlackberryDownload and install KTSync from the Blackberry App World.
 http://appworld.blackberry.com/webstore/content/16861?lang=en

iPad/iPhone/iPod Touch

Download and install KTSync from the Apple App Store.

http://itunes.apple.com/us/app/ktsync/id372916602?mt=8

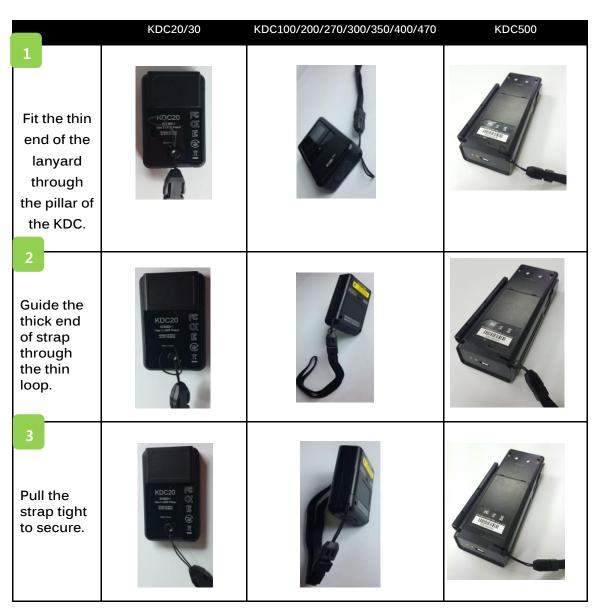
3. Operating your KDC

3.1 Getting Started

Attaching a Lanyard or Hand Strap to a KDC

To prevent possible damage to the KDC, we STRONGLY recommend wearing it around the neck or hand, using the included lanyard or hand strap. In addition, the user should not swing the KDC by its lanyard or hand strap. Impact with another object may cause the KDC to malfunction or damage.

To attach a lanyard/hand strap:



Charge KDC Battery

Prior to using the KDC, the user should charge the battery. Follow the instructions below.

- 1. Connect the KDC cable to the mini USB connector on the KDC.
- 2. Connect the KDC cable to the Type A USB connector on the computer.
- 3. The KDC battery will begin charging. Within a few minutes, the two small LEDs (three LEDs in case of KDC500) on the front panel will illuminate orange. When the battery is fully charged, the LEDs will illuminate green.

KDC100	KDC20/200	KDC30/250/300/270	KDC350	KDC400/470	KDC500
2 Hours	2 Hours	4 Hours	5 Hours	5 Hours	5 Hours

Table 2 - Number of hours required to fully charge a KDC Battery

Configure KDC

The KDC is designed to meet the data collection requirements of many different industries in a variety of dynamic situations. To deliver the best performance in these diverse environments, the KDC is designed to be configured quickly and easily.

However, to perform at its optimum level, the KDC must be configured properly. Until the user is familiar with the KDC configuration settings, it is recommended that the user DOES NOT modify the KDC settings. The KDC may be configured by using three different methods, which are explained in Section 3.3 – KDC Menus, Chapter 5 – Synchronization, and Appendix C/D – Special Barcodes.

CONFIGURATION METHODS FOR THE KDC100/200/250/300/270/350/500

- KDC Menu
- KTSync Software
- Special Barcodes



Figure 8 - Location of KDC Menu and use of buttons (KDC100/200/250/270/300)

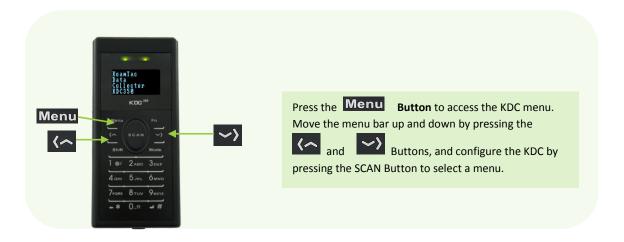


Figure 9 - Location and use of buttons on a keypad (KDC350)

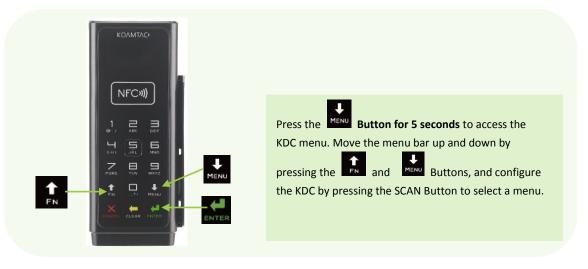


Figure 10 - Location and use of buttons on a keypad (KDC500)

CONFIGURATION METHODS FOR KDC20/30/400/470

- KTSync Software
- Special Barcodes

3.2 Basics

Reading Barcodes

To read a barcode using the KDC, simply point the KDC at a barcode and press the scan button. Be sure to point the scan engine window at the barcode, not at the user's face, and make sure to position the light beam on the barcode.

If a barcode has been successfully scanned, the user will hear one short beep and the LEDs will illuminate green. The scanned barcode data will be displayed on the KDC screen, along with the scan time and battery level. *Depending on the configuration of the KDC, other information may also be displayed.*

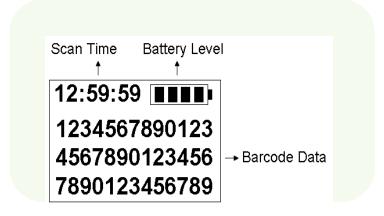


Figure 11 - KDC Display

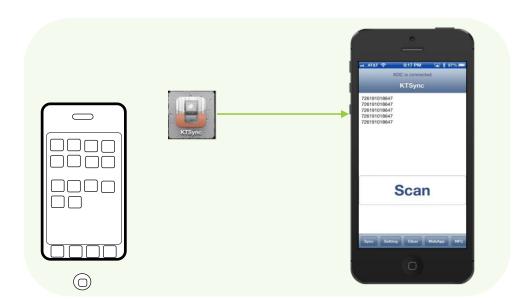


Figure 12 - Scanning barcodes using KTSync

If scanning was unsuccessful, the user will hear two short beeps, the LEDs will illuminate red, and the message *Failed reading* will display. If this is the case, the user should point the KDC at the barcode and press the scan button while trying the following suggestions:

- Modify the angle of the KDC in relation to the barcode, making the angle more wide or narrow as needed. (Laser Model)
- Modify the distance between the barcode and the KDC, moving closer or further away as needed.
- Check the option settings defined in the KDC menu section and change options as needed.
- Check to see that the barcode's width does not exceed the light beam's width, and vice versa.

Read Barcodes with GPS Coordinates (KDC250G/350G)

The KDC350G may add GPS coordinates after the barcode data. To do so, the user may follow the below instructions.



Because of the characteristics of GPS, this function is only available when outdoors.

- 1. Go to GPS Power in GPS Menu and select Enable.
- 2. Check to see if the KDC is successfully acquiring GPS data by selecting Acquire Test in GPS Menu.

When the user selects the Acquire Test, an 'Acquiring' message will appear on the screen. If this is the first test, check to make sure the 'Acquired' message appears within 90 seconds of acquiring GPS signal.

- 3. Go to SystemConfig in the KDC Menu and select GPS data in Display Format.
- 4. After finishing the configuration, scan a barcode as explained in **3.2.1 Reading** Barcodes.

When the user has successfully scanned a barcode, the barcode data and GPS coordinate will appear on the KDC screen.

For more information, refer to 3.3 Menu - GPS Config (KDC250G/350G).

Reading NFC Tags (KDC350N/400N/KDC500)

- 1. Enable the **NFC Power** option in the **NFC Config** menu.
- 2. Touch the NFC tag to the back of the KDC350N/400N case (or NFC logo on the front of the KDC500 case), and make sure the tag and case are within 5cm of each other.



Figure 13 - Location for reading NFC Tag

3. The KDC will show the NFC tag UID and the user will hear a short beep if it has been read successfully.

Reading HF RFID Tags (KDC450/470)

The KDC450/470 may virtually read any ISO/IEC 14443 A or B compliant smartcards, or ISO/IEC 15693 compliant HF RFID tags.

To read a HF RFID tag, touch the RFID card to the back of the KDC450/470 case, and make sure the tag and case are within 5cm of each other. The user will hear a short beep if it has been read successfully.

Inputting Data by Using a Keypad (KDC350)

The KDC350 Enables users to input barcode data by using its keypad. The user may switch between **Num** mode and **Abc** mode by using the Mode button.

To switch between uppercase and lowercase letters, the user may press the Shift button while in **Abc** mode. To save the data input, press the Enter or SCAN button. For data input, press the Menu button. Refer to <u>1.5 Input data by using a keypad (KDC350)</u> for more detailed information about the process.

Read Magnetic-Stripe (MS) Card(KDC500)

- 1. The paired host application sends a command to enable the MS Card Reader.
- 2. Swipe MS Card either top to bottom or bottom to top. Make sure the magnetic stripe of the card face to the KDC500.
- 3. The KDC500 will send the MS card data to the paired host application and the user will hear a short beep if it has been read successfully.

Read Integrated Chip (IC) Card(KDC500)

- 1. The paired host application sends a command to enable the IC Card Reader.
- 2. Insert IC Card into the IC Card slot located in the left side of KDC500. Make sure the IC of the card face to up.
- 3. The KDC500 will send the IC card data read to the paired host application.

Synchronizing data to the host device

Use the KTSyncprogram to synchronize barcode data from the KDC to the host device. Please refer to <u>Chapter 5</u>. <u>Synchronization</u> for details.

3.3 KDC Menu

Top Menu	Sub Menu	Options	KDC20	KDC30	KDC100	KDC200	KDC250	KDC300	KDC350L	KDC350C
KDC Mode	Normal		Default	Default	Default	Default	Default	Default	Default	Default
	Application		N/A	N/A	Custom	Custom	Custom	Custom	Custom	Custom
View Data	View/Delete		N/A	N/A	Application View/Delete	Application View/Delete	Application View/Delete	Application View/Delete	Application View/Delete	Application View/Delete
					Data	Data	Data	Data	Data	Data
Set Barcodes	EAN13	Enabled/ Disabled	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
(20/	EAN8	Enabled/	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
100/ 200/ 250/	UPCA	Disabled Enabled/	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
350L)	UPCE	Disabled Enabled/	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
	CODE39	Disabled Enabled/	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
ŀ	ITF14	Disabled Enabled/	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
	CODE128	Disabled Enabled/	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
	12of5	Disabled Enabled/	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
		Disabled								
	CODABAR	Enabled/ Disabled	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
	GS1-128	Enabled/ Disabled	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
	CODE93	Enabled/ Disabled	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
	CODE35	Enabled/ Disabled	Enabled	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
	BooklandEAN	Enabled/ Disabled	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
•	EAN13withAddon	Enabled/ Disabled	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
	EAN8withAddon	Enabled/	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
	UPCAwithAddon	Disabled Enabled/	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
	UPCEwithAddon	Disabled Enabled/	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
	GS1 Omni	Disabled Enable/	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
	GS1 Limited	Disable Enable/	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
	GS1 Expanded	Disable Enable/ Disable	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
Set	1D Symbology	Codabar	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
Barcodes (30/300/		Code 11	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
350C)		Code 32	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		Code 39	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		Code 93 Code 128	N/A N/A	Enabled	N/A N/A	N/A N/A	N/A N/A	Enabled	N/A N/A	Enabled Enabled
		EAN-8	N/A	Enabled Enabled	N/A	N/A	N/A	Enabled Enabled	N/A	Enabled
		EAN-13	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		GS1	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		Composit I2of5	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		Matrix 2of5	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		MSI	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		Plessey	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		PosiCode	N/A	Enable	N/A	N/A	N/A	Enabled	N/A	Enabled
		GS1 Omni	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		GS1 Limited	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		GS1 Expanded	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		S2of5 Ind	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		S2of5 IATA	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		TLC39	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		Telepen Trioptic	N/A N/A	Enabled Enabled	N/A N/A	N/A N/A	N/A N/A	Enabled Enabled	N/A N/A	Enabled Enabled
		тюрис	IVA	LITADIEU	IW/A	IWA	IWA	Lilabieu	IWA	LIIADIEU

				1			1	1		
1		UPCA	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		UPCE0	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		UPCE1	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
	2D Symbology	AztecCode	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
	.,	AztecRune	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		S	. 4/1	Lindblod	1373	1,4/13		2		Lindbica
		Codablock	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		F Code16K	N/A	N/A	N/A	N/A	N/A	Enabled	N/A	Enabled
		Code49	N/A	N/A	N/A	N/A	N/A	Enabled	N/A	Enabled
		DataMatrix	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		MaxiCode	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		MicroPDF	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		PDF417	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		QRCode	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		HanXin Code	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
	Postal Codes	Postnet	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
	. 23 03003	PlanetCod	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		е								
		UK Post Mayada	N/A N/A	Enabled Enabled	N/A N/A	N/A N/A	N/A N/A	Enabled Enabled	N/A N/A	Enabled Enabled
		Post								
		Kix Post Australia	N/A N/A	Enabled Enabled	N/A N/A	N/A N/A	N/A N/A	Enabled Enabled	N/A N/A	Enabled Enabled
		Post								
		Japan Post	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		China Post	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		Korea Post	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
	OCR	OCR Off	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		OCR A	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		OCR B	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		OCR Passport	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		OCR MICR	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		OCR SEMI	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
Barcode	CodaBar_NoStartSto	Enabled/	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
Options	pChars		Disabled	1977	Disabled	Disabled	Disabled	19/7	Disabled	IVA
	portaro	Disabled								
(20/100 /200/250	UPCE_as_UPCA	Enabled/	Disabled	N/A	Disabled	Disabled	Disabled	N/A	Disabled	N/A
(20/100 /200/250 /350L)		Enabled/ Disabled Enabled/	Disabled Disabled	N/A N/A	Disabled Disabled	Disabled Disabled	Disabled Disabled	N/A N/A	Disabled Disabled	N/A N/A
/200/250	UPCE_as_UPCA	Enabled/ Disabled								
/200/250	UPCE_as_UPCA EAN8_as_EAN13 UPCE_as_EAN13	Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled	Disabled Disabled	N/A N/A	Disabled Disabled	Disabled Disabled	Disabled Disabled	N/A N/A	Disabled Disabled	N/A N/A
/200/250	UPCE_as_UPCA EAN8_as_EAN13 UPCE_as_EAN13 ReturnCheckDigit	Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled	Disabled Disabled Disabled	N/A N/A	Disabled Disabled Disabled	Disabled Disabled Disabled	Disabled Disabled Disabled	N/A N/A	Disabled Disabled Disabled	N/A N/A
/200/250	UPCE_as_UPCA EAN8_as_EAN13 UPCE_as_EAN13	Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/	Disabled Disabled	N/A N/A	Disabled Disabled	Disabled Disabled	Disabled Disabled	N/A N/A	Disabled Disabled	N/A N/A
/200/250	UPCE_as_UPCA EAN8_as_EAN13 UPCE_as_EAN13 ReturnCheckDigit	Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/	Disabled Disabled Disabled	N/A N/A	Disabled Disabled Disabled	Disabled Disabled Disabled	Disabled Disabled Disabled	N/A N/A N/A	Disabled Disabled Disabled	N/A N/A
/200/250	UPCE_as_UPCA EAN8_as_EAN13 UPCE_as_EAN13 ReturnCheckDigit VerifyCheckDigit UPCA_as_EAN13	Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/	Disabled Disabled Disabled Disabled	N/A N/A N/A N/A	Disabled Disabled Disabled Disabled	Disabled Disabled Disabled Disabled	Disabled Disabled Disabled Disabled	N/A N/A N/A N/A	Disabled Disabled Disabled Disabled	N/A N/A N/A N/A
/200/250	UPCE_as_UPCA EAN8_as_EAN13 UPCE_as_EAN13 ReturnCheckDigit VerifyCheckDigit UPCA_as_EAN13 I2of5_VerifyCheckDig it	Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled	Disabled Disabled Disabled Disabled Disabled Disabled	N/A N/A N/A N/A N/A	Disabled Disabled Disabled Disabled Disabled Disabled	Disabled Disabled Disabled Disabled Disabled Disabled	Disabled Disabled Disabled Disabled Disabled Disabled	N/A N/A N/A N/A N/A	Disabled Disabled Disabled Disabled Disabled	N/A N/A N/A N/A N/A
/200/250	UPCE_as_UPCA EAN8_as_EAN13 UPCE_as_EAN13 ReturnCheckDigit VerifyCheckDigit UPCA_as_EAN13 I2of5_VerifyCheckDig it Code39_VerifyCheck Digit	Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled Enabled/ Disabled	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	N/A N/A N/A N/A N/A N/A N/A	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Disabled Disabled Disabled Disabled Disabled Disabled Disabled	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	N/A N/A N/A N/A N/A N/A N/A	Disabled Disabled Disabled Disabled Disabled Disabled Disabled Disabled	N/A N/A N/A N/A N/A N/A N/A
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Check Digit (Enabled/ Disabled) N/A Enabled N/A N/A N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Disabled Disabled Disabled N/A Disabled											
(Enabled/ Disabled) NumberSy s(Enabled/ Disabled) 2DgtAdden da(Enable d)) 5DgtAdden da(Enable d/Disabled) N/A Disabled			Check	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
Disabled) NumberSy s(Enabled/ Disabled) 2DgtAdden N/A Disabled N/A N/A N/A Disabled N/A Disabled da(Enable d/Disabled) 5DgtAdden N/A Disabled N/A N/A N/A Disabled											
s(Enabled/ Disabled) 2DgtAdden da(Enable d/Disabled N/A Disabled											
Disabled) 2DgtAdden				N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
2DgtAdden da(Enable d/Disabled N/A Disabled											
d/Disabled) 5DgtAdden N/A Disabled N/A N/A N/A Disabled N/A Disabled da(Enable d/Disabled d/Disabled N/A Disabled N/A Disabled N/A Disabled N/A Disabled			2DgtAdden	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
) 5DgtAdden N/A Disabled N/A N/A N/A Disabled N/A Disabled da(Enable d/Disabled d/Disabled N/A Disabled											
da(Enable d/Disabled											
d/Disabled				N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
			1								

	EAN-13	VerifyChkD	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
	EAN-8	gt(Enabled								
		/Disabled)	21/2	6:	N1/A	N1/A	N1/A	District.	21/2	D'antitud
		2DgtAdden	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		da(Enable d/Disabled								
		u/Disableu								
		5DgtAdden	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		da(Enable	IVA	Disabled	IVA	IVA	IV/A	Disabled	IVA	Disabled
		d/Disabled								
)								
		Req.	N/A	N/A	N/A	N/A	N/A	Disabled	N/A	Disabled
		Addenda								
		(Enabled/								
		Disabled)								
		Sep.	N/A	N/A	N/A	N/A	N/A	Enabled	N/A	Enabled
		Addenda								
		(Enabled/								
		Disabled)								
		ISBN	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		Trans.								
		(Enabled/								
		Disabled)								
		VerifyChkD	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		gt(Enabled								
		/Disabled)	N/A	Disable 4	N/A	N/A	N/A	Disable 4	N/A	Disabled
		2DgtAdden da(Enable	IV/A	Disabled	IN/A	IN/A	IN/A	Disabled	IN/A	Disabled
		da(Enable d/Disabled								
		a/Disabled								
		5DgtAdden	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		da(Enable	IW/A	Disabieu	IN/A	IWA	IN/A	Disabled	IN/A	Disabled
		d/Disabled								
)								
		Req.	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		Addenda	· ·			,				
		(Enabled/								
		Disabled)								
		Sep.	N/A	Enabled	N/A	N/A	N/A	Enabled	N/A	Enabled
		Addenda								
		(Enabled/								
		Disabled)								
	MSI	Tx	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		CheckChar								
		(Enabled/								
		Disabled)								
	PosiCode	A and	N/A	N/A	N/A	N/A	N/A	A&B	N/A	A&B
		B/A&B						LimitedB		LimitedB
		LimitedA/A &B								
		&B LimitedB								
	GS1	UPCEAN	N/A	N/A	N/A	N/A	N/A	Disabled	N/A	Disabled
	001	Ver.(Enabl	1074	1071	1074	1477	1071	Disabled	1071	Disabled
		ed/Disable								
		d)								
		GS1	N/A	N/A	N/A	N/A	N/A	No Emulate	N/A	No Emulate
		Emulation								
		(No								
		Emulate/								
		GS1 128								
		Emul/GS1								
		Emulate)								
	PostNet	Tx	N/A	N/A	N/A	N/A	N/A	Disabled	N/A	Disabled
		CheckChar								
		(Enabled/								
	Diameter 1	Disabled)	N1/A	N1/A	N1/A	N1/A	N1/A	Di	N1/A	Disable
	PlanetCode	Tx CheckChar	N/A	N/A	N/A	N/A	N/A	Disabled	N/A	Disabled
		(Enabled/								
		Disabled)								
Scan	Scan Angle	Narrow/	Wide	N/A	Wide	Wide	Wide	N/A	Wide	N/A
Options		Wide	(Laser only)			*******			(Opticon	
,									Laser only)	
	Filter	Normal/	Normal	N/A	Normal	Normal	Normal	N/A	Normal	N/A
	Ì	High	(Laser only)			-			(Opticon	
		I	' ''						Laser only)	
			•		2 second(s)	2 second(s)	2 second(s)	2 second(s)	2 second(s)	2 second(s)
	Time Out	.5 seconds	2 second(s)	2 second(s)				l ''	I '	(-)
	Time Out	.5 seconds to 10	2 second(s)	2 second(s)	, ,					
	Time Out		2 second(s)	2 second(s)	(,)					
	Time Out Min. Barcode Length	to 10	2 second(s) 4 chars	2 second(s)	4 chars	4 chars	4 chars	N/A	4 chars	N/A
		to 10 seconds				4 chars	4 chars	N/A	4 chars	N/A
		to 10 seconds 2 to 36				4 chars	4 chars N/A	N/A 4 chars	4 chars	N/A 4 chars
	Min. Barcode Length	to 10 seconds 2 to 36 characters	4 chars	N/A	4 chars					
	Min. Barcode Length	to 10 seconds 2 to 36 characters 2 to 48	4 chars	N/A	4 chars					
	Min. Barcode Length Min. Barcode Length	to 10 seconds 2 to 36 characters 2 to 48 characters	4 chars	N/A N/A	4 chars	N/A	N/A	4 chars	N/A	4 chars

	Auto Trigger	Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto Higger	Disabled	Disabled	Disabled	Disabled	Disabled	Disabica	Disabica	Disabled	Disabled
	Reread Delay	Continuou s, Short,	Medium	Medium	Medium	Medium	Medium	Medium	Medium	Medium
		Medium,								
		Long, Extra								
	Finger Trigger	Long Enabled/Di	N/A	N/A	Enabled	Enabled	Enabled	N/A	Enabled	N/A
	gegge.	sabled								
	Partial Display	Start	1	1	1	1	1	1	1	1
		Position No. of	0 chars	0 chars	0 chars	0 chars	0 chars	0 chars	0 chars	0 chars
		Char(s)								
		Action	Select	Select	Select	Select	Select	Select	Select	Select
Data Process	Wedge / Store	Wedge Onl y								
770000		Wedge &	Default	Default	Default	Default	Default	Default	Default	Default
		Store Always								
		Store Only								
		Save if								
		Sent								
		Save if Not Sent								
	Data Format	Barcode	Default	Default	Default	Default	Default	Default	Default	Default
		only								
		Packet Data								
	Data Editor/ Prefix									
	Data Editor/ Suffix									
	Data Editor/ AIM ID	None/In	None	None	None	None	None	None	None	None
		Prefix/In Suffix								
	Data Editor/ Partial	Start	1	1	1	1	1	1	1	1
	Data	Position No. of	0 chars	0 chars	0 chars	0 chars	0 chars	0 chars	0 chars	0 chars
		Char(s)	o criars	0 Chars	0 Chars	0 Chars	0 Citars	o criais	o criais	0 Chars
		Action	Select	Select	Select	Select	Select	Select	Select	Select
	Handshake	Enable/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Terminator	Disabled None, CR,	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF
		LF, CR+LF,								
		Tab, Right Arrow, Left								
		Arrow,Dow								
		n Arrow, Up Arrow								
	Chk Duplicate	Enabled/Di	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
		sabled								
	Enter Key	Enabled/Di sabled	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	Extend Key	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	A == \ /==if .	Disabled	N1/A	Disabled	N1/A	NI/A	NI/A	Disabled	NI/A	Disabled
	Age Verify	Verification Enabled/	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
		Disabled								
		Age Default	N/A	21	N/A	N/A	N/A	21	N/A	21
BT Config	Connect Device	SPP	Default	Default	N/A	Default	Default	Default	Default	Default
	(Non Mfi mode)	HID iOS			N/A					
		SPP2.0			N/A					
		HID			N/A					
	Connect Device	normal SPP			N/A					
	(Mfi mode)									
		MFi	Default	Default	N/A	Default	Default	Default	Default	Default
	Auto Connect	Enabled /Disabled	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto Reconnect	Enabled/	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
		Disabled								
	Auto Power On	Enabled/	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto Power	Disabled disabled,	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	On/Power On Time	1sec to								
		10second(s)								
	Auto Power Off	Enabled/	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto De la Carro	Disabled	Director 1	District 1	h1/A	District 1	Division 1	Director 1	Director 1	Director 1
	Auto Power Off/Beep Warning	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto Power	1 to 30	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	Off/Power Off Time	minutes								

	PowerOff Msg	Enabled/Di sabled	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	MAC Address	12			N/A					
		Characters Bluetooth								
		MAC								
	BT FW Version	Address v1.2.xrt			N/A					
		Bluetooth								
		Firmware Version								
	Wakeup Nulls	Enabled/Di	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	Connect Alert	sabled Enabled/Di	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
	Connect Alert	sabled	Disabled	Disabled	IN/A	Disabled	Disabled	Disabled	Disabled	Disabled
	BT Toggle	Enabled/Di sabled	Enabled	Enabled	N/A	Enabled	Enabled	Enabled	Enabled	Enabled
	DisconnectBtn	Enabled/Di	Enabled	Enabled	N/A	Enabled	Enabled	Enabled	Enabled	Enabled
		sabled								
	HID AutoLock	disabled,1, 2,3,4,5,10,1	1 minutes	1 minutes	N/A	1 minutes	1 minutes	1 minutes	1 minutes	1 minutes
	HID Keyboard	5 minutes US,Germa	US	US	N/A	US	US	US	US	US
	Tilb Noyboard	n,French	00	00	1071	00		00		00
		,ltalian,Spa nish								
	HID Delay/Initial	Disabled,	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
		1,2,3,5,10 secs								
	HID Delay/Inter char	Disabled,1	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
		0, 20, 30, 50, 100msec								
	HID Ctrl Char	Disabled,	Disabled	Disabled	N/A	Disabled	Disabled	Disabled	Disabled	Disabled
		Alt+Numpa								
		d, ^+Charact								
		er, Replace								
BT Service	Power	to Enabled/	Enabled	Enabled	N/A	Enabled	Enabled	Enabled	Enabled	Enabled
	D. C. C.	Disabled			N1/A					
	Pairing	Pairing neighborin			N/A					
		g								
		Bluetooth devices								
	Discovering	Discoverin			N/A					
		g neighborin								
		g								
		Bluetooth devices								
	Connecting to	View			N/A					
		Connect to Bluetooth								
		device								
	HID Sync				N/A		_			
	Auto Pairing	Enabled/Di sabled	Enabled	Enabled	N/A	Enabled	Enabled	Enabled	Enabled	Enabled
USB Config	USB Mode	Disabled/	Disabled	Disabled						
(M model)		USB Disk/ USB HID								
NFC Config	NFC Power	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled
(N model)	Data Format	Disabled Barcode	N/A	N/A	N/A	N/A	N/A	N/A	Packet Data	Packet Data
	Data Format	only/Packe	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A	racket Data	racket Data
	10000	t Data	h1/4	h1/A	h1/A	h1/4	h1/4	h1/A	A 1 / A	h1/4
	UID Only	Enabled/ Disabled	N/A	N/A						
GPS Config	GPS Power	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A	Disabled	Disabled
(G model)	Power Mode	Normal/Po wer Save	N/A	N/A	N/A	N/A	Normal	N/A	Normal	Normal
	Bypass Data	Enabled/ Disabled	N/A	N/A	N/A	N/A	Disabled	N/A	Disabled	Disabled
	Acqurie Test	Disabled	N/A	N/A	N/A	N/A		N/A		
	Reset GPS		N/A	N/A	N/A	N/A		N/A		
	Memory Size(3.0+	0.5/6.5, 1/6,	N/A	N/A	0.5M/6.5M	0.5M/6.5M	0.5M/6.5M	0.5M/6.5M	0.5M/6.5M	0.5M/6.5M
System						1	ī	İ	Ī.	
System Config	only)	2/5, 3/4, 4/3, 5/2.								
	only)	4/3, 5/2, 6/1, 70								
		4/3, 5/2,								

		Free				1		1		
		Memory								
		Available								
	Reset Memory	Memory								
		(Empties Data)								
		Application								
		Memory								
		BT Registry								
		(KDC100 Not use)								
	Auto Erase	Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
		Disabled								
	Sleep Timeout	Disabled,	5 second(s)	5 second(s)	5 second(s)	5 second(s)	5 second(s)	5 second(s)	5 second(s)	5 second(s)
		1sec to 10minute(s								
)								
	Date / Time	YYYY:MM:								
		DD &								
	Battery	HH:MM:SS % of								
	Battery	Battery								
		Charge								
		Available								
	Version	Firmware Version &								
		Serial No.								
	Button Lock	Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Dana Alice	Disabled	Facility	FUU	Fa-11111	Facility 1	Feetite 1	Fa-11111	EUU	EIII
	Beep Alert /Beep Sound	Enabled/ Disabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Beep Alert /Power	Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	On Beep	Disabled								
	Beep Alert /Beep On Connect	Enabled/ Disabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Beep Alert /Beep On	Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Scan	Disabled								
	Beep Volume	Low/High	Low	Low	Low	Low	Low	Low	Low	Low
	Mfi	Enabled/Di sabled	Enabled	Enabled	N/A	Enabled	Enabled	Enabled	Enabled	Enabled
	(i-chip installed) Vibrator	Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	Disabled
		Disabled/								
		Config								
	Auto Exit	Enabled/ Disabled	N/A	N/A	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Port Status	Enabled/	N/A	N/A	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
		Disabled								
	Display Format	Time & Battery /	N/A	N/A	Time & Battery					
		Type &			Dattery	Buttery	Battery	Dattery	Dattery	Dattery
		Time /								
		Type &								
		Battery / Memory								
		Status /								
		GPS								
		Data(KDC2 50								
		only)/Barc								
		ode Only/								
		Graphic								
	Menu Barcode	Enabled/ Disabled	N/A	Disabled	N/A	N/A	N/A	Disabled	N/A	Disabled
	Scrolling	Enabled/	N/A	N/A	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
		Disabled								
	Brightness	1 to 15	N/A	N/A	8 level					
		level(8 level)								
	Keypad	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled
		Disabled	****							
	Language (FW Version 3.x only)	None/ US(English	N/A	N/A	None	None	None	None	None	None
	,)/								
		French/								
		Italian/ Spanish/								
		Korean/								
		Japanese								
	Factory Default	Restores								
		Default Settings								
MSR Config	Data Format	MSR Data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Only	****							
		Packet Data	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
1		Data	1	I	I	l .	ı	l	l	I

	Use Track1	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Use Track2	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	UseTrack3	Disabled Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beep on error	Disabled Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	reading	Disabled								
	Encrypt MSR Data	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	AES Key Length	128bit/192 bit/256bit	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Card Type	ISO/OTHE R 1/AAMVA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Track Separator	None/Spa ce/Comm a/Semicol on/CR/LF/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		CR&LF/Ta b								
	Attach Start/End Sentinel		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Partial Data Start Position		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Partial Data Length		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Partial Data Action	Erase/ Select	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
WIFI Config	Power		N/A	N/A	N/A	N/A	N/A	N/A	Enable	Enable
	AP	SSID	N/A	N/A	N/A	N/A	N/A	N/A	Empty	Empty
		Passcode	N/A	N/A	N/A	N/A	N/A	N/A	Empty	Empty
	Server	IP Address	N/A	N/A	N/A	N/A	N/A	N/A	0.0.0.0	0.0.0.0
	Server	URL Address	N/A	N/A	N/A	N/A	N/A	N/A	Empty	Empty
	Server	Port Number	N/A	N/A	N/A	N/A	N/A	N/A	80	80
	Server > Protocol	UDP/TCP/ HTTP GET/ HTTP Post	N/A	N/A	N/A	N/A	N/A	N/A	HTTP Post	HTTP Post
	Server > SSL	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	Server	Server Page	N/A	N/A	N/A	N/A	N/A	N/A	Empty	Empty
	Resp. Timeout	1/2/3/4/5/ 6/7/8/9/10 sec	N/A	N/A	N/A	N/A	N/A	N/A	10 sec	10 sec
			N/A	N/A	N/A	N/A	N/A	N/A		
	Connect	Connectin g to AP	IN/A							
	Connect Auto Connect	g to AP Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
		g to AP			N/A N/A	N/A N/A	N/A N/A	N/A N/A	Disabled Enabled	Disabled Enabled

	Top Menu	Sub Menu	Options	KDC410/ 411	KDC415	KDC420/ 421	KDC425	KDC430	KDC450	KDC500L	KDC500C
	KDC Mode	Normal		Default	Default	Default	Default	Default	Default	N/A	N/A
September Part											
### FAMILIAN Freshold Freshol	View Data	View/Delete		N/A	N/A	N/A	N/A	N/A	N/A		
PANEL Paralesco		EAN13		Enabled	Enabled	N/A	N/A	N/A	N/A		
UPCA Crosided Crosided NNA NNA NNA Crosided NNA		EAN8		Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
Discission		LIDCA		Enobled	Enobled	NI/A	NI/A	NI/A	NI/A	Enobled	NI/A
CODES Consider Franker Franker NA		OPCA		Enabled	Enabled	IN/A	IN/A	IV/A	IV/A	Enabled	IV/A
CODE28		UPCE		Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
		CODE39	Enabled/	Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
CODES Penhade		ITF14	Enabled/	Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
COS		CODE128		Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
CODBAR Crabled Enabled N/A N/A N/A N/A N/A Enabled N/A		12of5		Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
OS.128		CODABAR		Enabled	Enabled	N/A	N/A	N/A	N/A	Fnabled	N/A
CODESS Enabled Code Co			Disabled								
CODESS			Disabled								
		CODE93		Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
EAVIZAMINASION Disabled Enabled Disabled Disabled Disabled N/A Disabled Disabled Disabled N/A Enabled Enabled N/A Enabled		CODE35		Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
EARLS Disabled D		BooklandEAN		Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
EANSWITHAGON		EAN13withAddon	Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
UPCAveINAddon		EAN8withAddon	Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
UPCEWINAddon		UPCAwithAddon		Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
Disabled		UPCEwithAddon		Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
Code 11	Set Barcodes	1D Symbology		N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Code 32		15 Cymbology									
Code 93 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Code 128 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled EnAN-8 N/A N/A Enabled Enabled N/A En	/450/500C)										
Code 128 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled Enabled N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabl			Code 39	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
EAN-8 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled EAN-13 N/A N/A Enabled Enabled Enabled N/A Enabled N/A Enabled N/A Enabled S21 N/A N/A Enabled Enabled Enabled N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabl			Code 93	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
EAN-13 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Matrix 2of5 N/A N/A Enabled Enabled N/A Enabled N/A Enabled MS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Plessey N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 Omni N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 Omni N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N			Code 128	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
GS1 N/A N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enable			EAN-8	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Composit 120f5 N/A N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A			EAN-13	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
IZOIS N/A N/A Enabled Enabled N/A Enabled N/A Enabled Matrix 2015 N/A N/A Enabled Enabled Enabled N/A Enabled Expanded S2015 Ind N/A N/A Enabled Enabled Enabled N/A Enabled N/A Enabled Expanded S2015 Ind N/A N/A Enabled Enabled Enabled N/A Enabled N/A Enabled Expanded Expande				N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
MSI N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Plessey N/A N/A Enabled Enabled N/A En				N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Plessey N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled PosiCode N/A N/A Enabled Enabled Enabled N/A Enabled N/A Enabled N/A Enabled SCI Omni N/A N/A Enabled Enabled Enabled N/A Enabled SCI N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled SCI N/A N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A Enabled Enabled N/A			Matrix 2of5	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
PosiCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 Omni N/A N/A Enabled Enabled N/A Enabled S20f5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled S20f5 Ind N/A N/A Enabled Enabled N/A			MSI	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
GS1 Omni N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled OS2 N/A N/A Enabled Enabled Enabled N/A Enabl			Plessey	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled S2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled S2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled S2of5 IATA N/A N/A Enabled Enabled N/A Enabled N/A Enabled TLC39 N/A N/A Enabled Enabled N/A Enabled N/A Enabled Telepen N/A N/A Enabled Enabled N/A Enabled N/A Enabled Trioptic N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCA N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEO N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEO N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEI N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEI N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEI N/A N/A Enabled Enabled N/A Enabled N/A Enabled 2D Symbology AztecCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled S Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled F Code16K N/A N/A Enabled Enabled N/A Enabled			PosiCode	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Limited GS1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled S2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled S2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled S2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled TLC39 N/A N/A Enabled Enabled N/A Enabled N/A Enabled Telepen N/A N/A Enabled Enabled N/A Enabled N/A Enabled Trioptic N/A N/A Enabled Enabled N/A Enabled N/A Enabled Trioptic N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCA N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE0 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled C2D Symbology AztecCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled S Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled F Code16K N/A N/A Enabled Enabled N/A Enabled N			GS1 Omni	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Expanded S2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled S2of5 IATA N/A N/A Enabled Enabled N/A Enabled N/A Enabled TLC39 N/A N/A Enabled Enabled N/A Enabled N/A Enabled Telepen N/A N/A Enabled Enabled N/A Enabled N/A Enabled Trioptic N/A N/A Enabled Enabled N/A Enabled N/A Enabled Trioptic N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCA N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEO N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEI N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEI N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEI N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEI N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEI N/A N/A Enabled Enabled N/A Enabled N/A Enabled CD Symbology AztecCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled S Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled F Code16K N/A N/A Enabled Enabled N/A Enabled				N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
S2of5 Ind N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled S2of5 IATA N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled TLC39 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Telepen N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Trioptic N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled UPCA N/A N/A Enabled Enabled N/A E				N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
TLC39 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Telepen N/A N/A Enabled Enabled N/A Enabled N/A Enabled Trioptic N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCA N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEO N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled ZD Symbology AztecCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled S Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled F Code16K N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled				N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Telepen N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Trioptic N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled UPCA N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCEO N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled ZD Symbology AztecCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled AztecRune N/A N/A Enabled Enabled N/A Enabled N/A Enabled S Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled F Code16K N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled			S2of5 IATA	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Trioptic N/A N/A Enabled Enabled N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled Enabled N/A E			TLC39	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
UPCA N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled N/A Enabled UPCEO N/A N/A Enabled Enabled N/A Ena			Telepen	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
UPCE0 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled 2D Symbology AztecCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled AztecRune N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled S Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled F Code16K N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled			Trioptic	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
UPCE1 N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled 2D Symbology AztecCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled AztecRune N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Code16K N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled			UPCA	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
2D Symbology AztecCode N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled AztecRune N/A N/A Enabled Enabled N/A Enabled N/A Enabled Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled Code16K N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled			UPCE0	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
AztecRune N/A N/A Enabled Enabled N/A Enabled N/A Enabled S Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled F Code16K N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled			UPCE1	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
S Codablock F Code16K N/A N/A N/A Enabled Enabled N/A Enabled		2D Symbology	AztecCode	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Codablock N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled F Code16K N/A N/A Enabled Enabled N/A Enabled N/A Enabled N/A Enabled				N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Code16K N/A N/A Enabled Enabled N/A Enabled N/A Enabled			Codablock	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
Code49 N/A N/A Enabled Enabled N/A Enabled N/A Enabled				N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
			Code49	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled

		Detalities	N1/A	N1/A	E	Facility	N1/A	Factor 1	N1/A	Feet to 1
		DataMatrix	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		MaxiCode	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		MicroPDF	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		PDF417	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		QRCode	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		HanXin Code	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
	Postal Codes	Postnet	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		PlanetCod e	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		UK Post	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		Mayada Post	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		Kix Post	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		Australia	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		Post Japan Post	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		China Post	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		Korea Post	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
	OCR	OCR Off	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		OCR A	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		OCR B	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		OCR USC	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		OCR MICR	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		OCR SEMI	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
Barcode Options	CodaBar_NoStartSt opChars	Enabled/ Disabled	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
(410/411/415 /500L)	UPCE_as_UPCA	Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
7300L)	EAN8_as_EAN13	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	UPCE_as_EAN13	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	ReturnCheckDigit	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	VerifyCheckDigit	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	UPCA_as_EAN13	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	I2of5_VerifyCheckDi	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	git Code39_VerifyChec	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	kDigit I2of5_ReturnCheck	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	Digit Code39_ReturnChe	Disabled Enabled/	Disabled	Disabled	N/A	N/A	N/A	N/A	Disabled	N/A
	ckDigit UPCE_ReturnCheck	Disabled Enabled/	Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
	Digit UPCA_ReturnCheck	Disabled Enabled/	Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
	Digit EAN8_ReturnCheck	Disabled Enabled/	Enabled	Enabled	N/A	N/A	N/A	N/A	Enabled	N/A
	Digit EAN13_ReturnChec	Disabled/ Enabled/	Enabled	Enabled	N/A N/A	N/A	N/A	N/A N/A	Enabled	N/A N/A
0	kDigit	Disabled								
Barcode Options (KDC420/425	Codabar	Tx StartStop (Enabled/	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
/450/500C)		Disabled)	NI/A	NI/A	DoNot/s-if	DoNo#/==if	N1/A	DoNo*/if	NI/A	DoNo*/:f
		Check Digit	N/A	N/A	DoNotVerify	DoNotVerify	N/A	DoNotVerify	N/A	DoNotVerify
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		Required)		<u> </u>	<u></u>					
	Code39	Tx	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
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	Disabled) Full	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
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12of5	ed) Check	N/A	N/A	DoNotVerify	DoNotVerify	N/A	DoNotVerify	N/A	DoNotVerif
12010	Digit		1071	Dortottomy	Bortotromy	1477	Bonocromy		50110110111
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	fyDoTx)								
Code11	Check	N/A	N/A	2 digits	2 digits	N/A	2 digits	N/A	2 digits
	Digit								
	(2 digits/1 digit)								
Code128	Concatena	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	te(Disable								
Telepen	d/Enabled) Output(Ori	N/A	N/A	AIM	AIM	N/A	AIM	N/A	AIM
relepen	ginal/AIM)	IVA	IVA	Allvi	AllVI	INA	AllVI	IVA	Allvi
UPCA	VerifyChkD	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
	gt(Enabled								
	/Disabled) NumberSy	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
	s(Enabled/								
	Disabled)								
	2DgtAdden da(Enable	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	d/Disabled								
)								
	5DgtAdden da(Enable	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	d/Disabled								
)								
	Req.	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	Addenda (Enabled/								
	Disabled)								
	Sep.	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
	Addenda (Enabled/								
	Disabled)								
	Coupon	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
	Code (Enabled/								
	Disabled)								
UPCE	Expand	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	(Enabled/ Disabled)								
	Req.	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
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	Disabled) Sep.	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
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	Disabled)								
	2DgtAdden	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	da(Enable d/Disabled								
)		<u> </u>						
	5DgtAdden	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	da(Enable d/Disabled								
)								
EAN-13	VerifyChkD	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
	gt(Enabled /Disabled)								
	2DgtAdden	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	da(Enable	***						***	
	d/Disabled								
) 5DgtAdden	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	da(Enable	1977	19/0	Sisablea	2.oabicu	19773	DISUDICU	1 1/7 7	Disabled
	d/Disabled								
	Req.	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled

ı		(Enabled/		ı						1
		Disabled)								
		Sep.	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		Addenda (Enabled/								
		Disabled)								
		ISBN	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		Trans. (Enabled/								
		Disabled)								
	EAN-8	VerifyChkD	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		gt(Enabled								
		/Disabled) 2DgtAdden	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		da(Enable		1071	Disabled	Dioabioa		Disabled		Biodbiod
		d/Disabled								
) 5DgtAdden	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		da(Enable	IVA	IVA	Disabled	Disabled	IVA	Disabled	IVA	Disabled
		d/Disabled								
		Req.	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		Addenda	1477	1477	Disabica	Disabled	1477	Disabled	1071	Disablea
		(Enabled/								
		Disabled) Sep.	N/A	N/A	Enabled	Enabled	N/A	Enabled	N/A	Enabled
		Addenda	IVA	IWA	Liabled	LIADICU	IWA	Lilabieu	IWA	Lilableu
		(Enabled/								
	MSI	Disabled) Tx	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
	IVIOI	CheckChar	IN/A	IWA	PISADIEU	Pisabled	IN/A	PISANIEU	IWA	DISADIRU
		(Enabled/								
	PosiCode	Disabled) A and	N/A	N/A	A&B	A&B	N/A	A&B	N/A	A&B
	PosiCode	B/A&B	N/A	N/A	LimitedB	A&B LimitedB	N/A	LimitedB	N/A	LimitedB
		LimitedA/A								
		&B								
	GS1	LimitedB UPCEAN	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		Ver.(Enabl								
		ed/Disable								
		d) GS1	N/A	N/A	No Emulate	No Emulate	N/A	No Emulate	N/A	No Emulate
		Emulation		1071	140 Emalato	110 Emalato		140 Erridiate		140 Emaiate
		(No								
		Emulate/ GS1 128								
		Emul/GS1								
		Emulate)								
	PostNet	Tx CheckChar	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		(Enabled/								
		Disabled)								
	PlanetCode	Tx CheckChar	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	Disabled
		(Enabled/								
		Disabled)								
Scan Options	Power	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	Scan Angle	Narrow/	Wide	Wide	N/A	N/A	N/A	N/A	N/A	N/A
		Wide								
	Filter	Normal/	Normal	Normal	N/A	N/A	N/A	N/A	N/A	N/A
	Time Out	High .5 seconds	2 second(s)	2 second(s)	2 second(s)	2 second(s)	N/A	2 second(s)	2 second(s)	2 second(s)
		to 10	(-/	(-)	(-)			(-)	(-)	(-)
	Min Dess 11:	seconds	A =b= ··	4	N1/A	N1/A	N1/A	h1/A	4	N1/A
	Min. Barcode Length	2 to 36 characters	4 chars	4 chars	N/A	N/A	N/A	N/A	4 chars	N/A
	Min. Barcode	2 to 48	N/A	N/A	4 chars	4 chars	N/A	4 chars	N/A	4 chars
	Length	characters	6: :				****			
	Security Level	1 to 4 level	2 level	2 level	N/A	N/A	N/A	N/A	N/A	N/A
	Image Capture	Enabled/ Disabled	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	N/A
	Auto Trigger	Enabled/	Disabled	Disabled	Disabled	Disabled	N/A	Disabled	Disabled	Disabled
		Disabled						L		
	Reread Delay	Continuou s, Short,	Medium	Medium	Medium	Medium	N/A	Medium	Medium	Medium
		Medium,								
		Long, Extra								
	Finger Tringer	Long Enabled/Di	NI/A	NI/A	N1/A	N1/A	N1/A	N1/A	NI/A	N1/A
	Finger Trigger	Enabled/Di sabled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Partial Display	Start	N/A	N/A	N/A	N/A	N/A	N/A	1	1
		Position	h1/*	A177	N172	h1/4	h1/1	N/**	0.1	0 -:
		No. of Char(s)	N/A	N/A	N/A	N/A	N/A	N/A	0 chars	0 chars
l	1	J. 10. (3)	ı	ı	ı			1	ı	ı

		Action	N/A	N/A	N/A	N/A	N/A	N/A	Select	Select
Data Process	Wedge / Store	Wedge Onl								
		у	6.6.1	D. (.):	D. (.):	D. (.).	D. (.)	D. (.)	D. (.)	D.C. II
		Wedge & Store	Default	Default	Default	Default	Default	Default	Default	Default
		Always								
		Store Only								
		Save if								
		Sent Save if Not								
		Sent								
	Data Format	Barcode	Default	Default	Default	Default	N/A	Default		
		only							D. (.).	D. (.)
		Packet Data							Default	Default
	Data Editor/Prefix									
	Data Editor/Suffix									
	Data Editor/AIM ID	None/In	None	None	None	None	N/A	None	None	None
		Prefix/In								
	Data Editor/Partial	Suffix Start	1	1	1	1	N/A	1	1	1
	Data	Position	1	1	_	_	IVA	1	1	_
		No. of	0 chars	0 chars	0 chars	0 chars	N/A	0 chars	0 chars	0 chars
		Char(s)	0.1	0.1	0.1	0.1	A177	0	0	0.1.1
	1112.2	Action	Select	Select	Select	Select	N/A	Select	Select	Select
	Handshake	Enable/ Disabled	Disabled	Disabled	Disabled	Disabled	N/A	Disabled	N/A	N/A
	Terminator	None, CR,	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF
		LF, CR+LF,]		
		Tab, Right Arrow, Left								
		Arrow, Dow								
		n Arrow,								
	Old Darling	Up Arrow	B'11-1	Bir day	Bis die	Bir die i	N1/A	Bir dila i	D'antita I	D'antitud
	Chk Duplicate	Enabled/ Disabled	Disabled	Disabled	Disabled	Disabled	N/A	Disabled	Disabled	Disabled
	Enter Key	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
		Disabled								
	Extend Key	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	Age Verify	Verification	N/A	N/A	Disabled	Disabled	N/A	Disabled	N/A	N/A
	3 ,	Enabled/								
		Disabled			0.4	0.4		0.4		
		Age Default	N/A	N/A	21	21	N/A	21	N/A	N/A
BT Config	ConnectDevice	SPP	Default	Default	Default	Default	Default	Default	N/A	N/A
	(Non Mfi mode)	HID iOS							N/A	N/A
		SPP2.0							N/A	N/A
		HID							N/A	N/A
		normal								
	ConnectDevice	SPP								
	(Mfi mode)	MFi	Default	Default	Default	Default	Default	Default	Default	Default
	Auto Connect	Enabled (Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	Auto Reconnect	/Disabled Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
		Disabled								
	Auto Power On	Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
		Disabled								
	Auto Power On/Power On Time	disabled, 1sec to	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	Jim Swei On time	10second(
		s)								
	Auto Power Off	Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	Auto Power	Disabled Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	Off/Beep Warning	Disabled								
	Auto Power	1 to 30	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	Off/Power Off Time PowerOff Msg	minutes Enabled/Di	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	1 Ower On Ivisy	sabled	Pisabied	Disabled	Disabled	Disableu	Disabled	Disableu	IN/A	IN/A
	MAC Address	12								
		Characters								
		Bluetooth MAC]		
		Address								
	BT FW Version	v1.2.xrt								
		Bluetooth								
		Firmware Version]		
	Wakeup Nulls	Enabled/Di	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
		sabled]	1	1	1	I	I	

	Connect Alert	Enabled/Di sabled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	BT Toggle	Enabled/Di sabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	N/A	N/A
	DisconnectBtn	Enabled/Di sabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	HID AutoLock	disabled,1, 2,3,4,5,10,1 5 minutes	1 minutes	1 minutes	1 minutes	1 minutes	1 minutes	1 minutes	N/A	N/A
	HID Keyboard	US,Germa n,French ,Italian,Spa	US	US	US	US	US	US	N/A	N/A
	HID Delay/Initial	nish Disabled, 1,2,3,5,10 secs	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	HID Delay/Inter char	Disabled,1 0, 20, 30, 50, 100msec	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
	HID Ctrl Char	Disabled, Alt+Numpa d,	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	N/A	N/A
DTQ i.e.		^+Charact er, Replace to	5	5	5	5	5	5	5	5
BT Service	Power	Enabled/ Disabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Pairing	Pairing neighborin g Bluetooth								
	Discovering	devices Discoverin							N/A	N/A
	<i>Biscoverining</i>	g neighborin g								
		Bluetooth devices								
	Connecting to	View Connect to Bluetooth device								
	Disconnect	device	N/A	N/A	N/A	N/A	N/A	N/A		
	HID Sync								N/A	N/A
	Auto Pairing	Enabled/ Disabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
USB Config (M model)	USB Mode	Disabled/ USB Disk/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
(M model) NFC Config	USB Mode NFC Power	Disabled/ USB Disk/ USB HID Enabled/	N/A Enabled	N/A Enabled	N/A Enabled	N/A Enabled	N/A N/A	N/A N/A	N/A Disabled	N/A Disabled
(M model)		Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe								
(M model) NFC Config	NFC Power	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/	Enabled	Enabled	Enabled	Enabled	N/A	N/A	Disabled	Disabled
(M model) NFC Config (N model)	NFC Power Data Format	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data	Enabled Packet Data	Enabled Packet Data	Enabled Packet Data	Enabled Packet Data	N/A N/A	N/A N/A	Disabled N/A	Disabled N/A
(M model) NFC Config (N model)	NFC Power Data Format UID Only	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled	Enabled Packet Data N/A	Enabled Packet Data N/A	Enabled Packet Data N/A	Enabled Packet Data Disabled	N/A N/A	N/A N/A N/A	Disabled N/A N/A	Disabled N/A N/A
(M model) NFC Config (N model)	NFC Power Data Format UID Only GPS Power	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Normal/Po	Enabled Packet Data N/A N/A	Enabled Packet Data N/A N/A	Enabled Packet Data N/A N/A	Enabled Packet Data Disabled N/A	N/A N/A N/A	N/A N/A N/A	Disabled N/A N/A N/A	Disabled N/A N/A N/A
(M model) NFC Config (N model)	NFC Power Data Format UID Only GPS Power Power Mode Bypass Data Acqurie Test	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Disabled Normal/Po wer Save Enabled/	Enabled Packet Data N/A N/A N/A N/A N/A	Enabled Packet Data N/A N/A N/A N/A N/A	Enabled Packet Data N/A N/A N/A N/A N/A	Enabled Packet Data Disabled N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	Disabled N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A
(M model) NFC Config (N model) GPS Config (G model)	NFC Power Data Format UID Only GPS Power Power Mode Bypass Data Acqurie Test Reset GPS	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Normal/Po wer Save Enabled/ Disabled	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/A	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A	Enabled Packet Data Disabled N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A
(M model) NFC Config (N model)	NFC Power Data Format UID Only GPS Power Power Mode Bypass Data Acqurie Test	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Normal/Po wer Save Enabled/ Disabled	Enabled Packet Data N/A N/A N/A N/A N/A	Enabled Packet Data N/A N/A N/A N/A N/A	Enabled Packet Data N/A N/A N/A N/A N/A	Enabled Packet Data Disabled N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A	Disabled N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A
(M model) NFC Config (N model) GPS Config (G model)	NFC Power Data Format UID Only GPS Power Power Mode Bypass Data Acqurie Test Reset GPS Memory Size(KDCS 00)	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Disabled Normal/Po wer Save Enabled/ Disabled	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data Disabled N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A
(M model) NFC Config (N model) GPS Config (G model)	NFC Power Data Format UID Only GPS Power Power Mode Bypass Data Acqurie Test Reset GPS Memory Size(KDCS 00)	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Normal/Po wer Save Enabled/ Disabled 0.5/2.5, 1/2, 2/1, 3/0 No. of Stored Barcodes Free Memory Available Memory (Empties	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data Disabled N/A N/A N/A N/A N/A N/A N/A	N/A	N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A
(M model) NFC Config (N model) GPS Config (G model)	NFC Power Data Format UID Only GPS Power Power Mode Bypass Data Acqurie Test Reset GPS Memory Size(KDC5 00) Memory Status	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Disabled Normal/Po wer Save Enabled/ Disabled Normal/Po wer Save Enabled/ Disabled No. of Stored Barcodes Free Memory Available Memory (Empties Data) Application	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data Disabled N/A N/A N/A N/A N/A N/A N/A N/	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A
(M model) NFC Config (N model) GPS Config (G model)	NFC Power Data Format UID Only GPS Power Power Mode Bypass Data Acqurie Test Reset GPS Memory Size(KDC5 00) Memory Status	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Disabled Normal/Po wer Save Enabled/ Disabled Normal/Po wer Save Enabled/ Disabled 0.5/2.5, 1/2, 2/1, 3/0 No. of Stored Barcodes Free Memory Available Memory (Empties Data) Application Memory BT Registry (KDC100	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data Disabled N/A N/A N/A N/A N/A N/A N/A N/	N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A
(M model) NFC Config (N model) GPS Config (G model)	NFC Power Data Format UID Only GPS Power Power Mode Bypass Data Acqurie Test Reset GPS Memory Size(KDC5 00) Memory Status	Disabled/ USB Disk/ USB HID Enabled/ Disabled Barcode only/Packe t Data Enabled/ Disabled Disabled Disabled Normal/Po wer Save Enabled/ Disabled Normal/Po wer Save Enabled/ Disabled 0.5/2.5, 1/2, 2/1, 3/0 No. of Stored Barcodes Free Memory Available Memory (Empties Data) Application Memory BT Registry	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data N/A N/A N/A N/A N/A N/A N/A N/	Enabled Packet Data Disabled N/A N/A N/A N/A N/A N/A N/A N/	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A

		10minute(s								
	Date / Time) YYYY:MM:	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		DD & HH:MM:SS								
	Battery	% of Battery	N/A	N/A	N/A	N/A	N/A	N/A		
		Charge								
	Version	Available Firmware	N/A	N/A	N/A	N/A	N/A	N/A		
		Version & Serial No.								
	Button Lock	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Beep Alert	Disabled Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	/Beep Sound Beep Alert /Power	Disabled		Enabled	Enabled	Enabled				
	On Beep	Enabled/ Disabled	Enabled				Enabled	Enabled	Enabled	Enabled
	Beep Alert /Beep On Connect	Enabled/ Disabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Beep Alert /Beep On Scan	Enabled/ Disabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Beep Alert	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled
	/BeepOnMSCard Beep Alert	Disabled Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled
	/BeepOnICCard Beep Alert	Disabled Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled
	/BeepOnNFCCard	Disabled								
	Beep Volume Mfi	Low/High Enabled/Di	Low	Low Enabled	Low Enabled	Low Enabled	Low Enabled	Low Enabled	Low N/A	Low N/A
	(i-chip installed)	sabled								
	Auto Exit	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled
	Port Status	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled
	Display Format	Time &	N/A	N/A	N/A	N/A	N/A	N/A	Time &	Time &
		Battery / Type &							Battery	Battery
		Time / Type &								
		Battery /								
		Memory Status /								
		GPS Data(KDC2								
		50								
		only)/Barc ode Only								
	Menu Barcode	Enabled/ Disabled	N/A	N/A	Disabled	Disabled	N/A	Disabled	Disabled	Disabled
	Scrolling	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Brightness	Disabled 1 to 15	N/A	N/A	N/A	N/A	N/A	N/A	8	8
		level(8 level)								
	Keypad	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	Language	Disabled US(English	N/A	N/A	N/A	N/A	N/A	N/A	US(English)	US(English)
)/ Korean/								
		Japanese								
	Factory Default	Restores Default								
MSR Config	Power	Settings Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
		Disabled /								
	Data Format	MSR Data Only	N/A	Default	N/A	Default	Default	N/A	N/A	N/A
		Packet Data	N/A		N/A			N/A	N/A	N/A
	Use Track1	Enabled/	N/A	Enabled	N/A	Enabled	Enabled	N/A	Enabled	Enabled
	Use Track2	Disabled Enabled/	N/A	Enabled	N/A	Enabled	Enabled	N/A	Enabled	Enabled
	Use Track3	Disabled Enabled/	N/A	Enabled	N/A	Enabled	Enabled	N/A	Enabled	Enabled
		Disabled								
	Null Check Track1	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	Null Check Track2	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A	Enabled	Enabled
	Null Check Track3	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	Beep on error	Disabled Enabled/	N/A	Disabled	N/A	Disabled	Disabled	N/A	Enabled	Enabled
	reading Encrypt MSR Data	Disabled Enabled/	N/A	Disabled	N/A	Disabled	Disabled	N/A	N/A	N/A
İ	2.10. ypt Work Date	L. ADIGU/	19773	D.JUDICU	1.4774	DISABICU	DISABIEU	1977	13/71	19/7

	T	Disabled		1		1	l			1
	AFO K. I I		N/A	128bit	N/A	128bit	N/A	N/A	N/A	N/A
	AES Key Length	128bit/192 bit/256bit								
	Card Type	ISO/OTHE R 1/AAMVA	N/A	ISO	N/A	ISO	ISO	N/A	ISO	ISO
	Track Separator	None/Spa ce/Comm	N/A	None	N/A	None	None	N/A	N/A	N/A
		a/Semicol on/CR/LF/ CR&LF/Ta								
	August Ougus (Fig. 1	b	h1/A	F	N1/A	5	E. H.	11/4	F	E. H. I
	Attach Start/End Sentinel		N/A	Enabled	N/A	Enabled	Enabled	N/A	Enabled	Enabled
	Partial Data Start Position		N/A	1	N/A	1	1	N/A	N/A	N/A
	Partial Data Length		N/A	0	N/A	0	0	N/A	N/A	N/A
	Partial Data Action	Erase/ Select	N/A	Select	N/A	Select	Select	N/A	N/A	N/A
ICCR Config	Power	Enabled/ Disabled /	N/A	N/A	N/A	N/A	N/A	N/A	Disabled	Disabled
	IFD Number		N/A	N/A	N/A	N/A	N/A	N/A		
	Config Number		N/A	N/A	N/A	N/A	N/A	N/A		
Key Mgmt	Stored Keys		N/A	N/A	N/A	N/A	N/A	N/A		
	Inject Keys		N/A	N/A	N/A	N/A	N/A	N/A		
Sensitive/	Date		N/A	N/A	N/A	N/A	N/A	N/A		
Set Date/Time	Time		N/A	N/A	N/A	N/A	N/A	N/A		
Sensitive/ Set Self-Test			N/A	N/A	N/A	N/A	N/A	N/A		
Sensitive/	1st Password		N/A	N/A	N/A	N/A	N/A	N/A		
Set Passwords	2nd Password		N/A	N/A	N/A	N/A	N/A	N/A		
Sensitive/	Stored Keys		N/A	N/A	N/A	N/A	N/A	N/A		
Key Mgmt	Inject Keys		N/A	N/A	N/A	N/A	N/A	N/A		
	Clear Keys		N/A	N/A	N/A	N/A	N/A	N/A		
Sensitive/ Card Encrypt		Plaintext / TDES / AES	N/A	N/A	N/A	N/A	N/A	N/A	AES	AES
UHF Configuration	UHF Power	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	Disabled	N/A	N/A
(UHF model)	Power On Time	500ms/1se c/1.5sec/2 sec/2.5sec /3sec/3.5s ec/4sec/4. 5sec/5sec	N/A	N/A	N/A	N/A	N/A	1 second	N/A	N/A
	Power Off Time	500ms/1se c/1.5sec/2 sec/2.5sec /3sec/3.5s ec/4sec/4. 5sec/5sec	N/A	N/A	N/A	N/A	N/A	1.5 second	N/A	N/A
	Power Level	0/1/2/3/4/ 5/6/7	N/A	N/A	N/A	N/A	N/A	0	N/A	N/A
	Data Format	Hexa Decimal / Binary	N/A	N/A	N/A	N/A	N/A	Hexa Decimal	N/A	N/A

Top Menu	Sub Menu	Options	KDC270L	KDC270D	KDC270C	KDC470L	KDC470D	KDC470C
KDC Mode	Normal		Default	Default	Default	Default	Default	Default
	Application		Custom Application	Custom Application	Custom Application	N/A	N/A	N/A
View Data	View/Delete		View/ Delete Data	View/ Delete Data	View/ Delete Data	N/A	N/A	N/A
Set Barcodes (270L/270D/	EAN13	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
470L/470D)	EAN8	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	UPCA	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	UPCE	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	CODE39	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	ITF14	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A

	CODE128	Enabled/	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	12of5	Disabled Enabled/	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	12013	Enabled/ Disabled	Enabled	Enabled	IN/A	Enabled	Enabled	IN/A
	CODABAR	Enabled/	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	GS1-128	Disabled Enabled/	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	031 120	Disabled	Enabled	Enabled	1071	Enabled	Enabled	14774
	CODE93	Enabled/	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	CODE35	Disabled Enabled/	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	CODE	Disabled	Enabled	Enabled	1071	Enabled	Enabled	14774
	BooklandEAN	Enabled/	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	EAN13withAddon	Disabled Enabled/	Disabled	Disabled	N/A	Disabled	Disabled	N/A
		Disabled						
	EAN8withAddon	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	UPCAwithAddon	Enabled/	Disabled	Disabled	N/A	Disabled	Disabled	N/A
		Disabled						
	UPCEwithAddon	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
Set Barcodes	1D Symbology	Codabar	N/A	N/A	Enabled	N/A	N/A	Enabled
(270C/470C)		Code 11	N/A	N/A	Enabled	N/A	N/A	Enabled
		Code 32	N/A	N/A	Enabled	N/A	N/A	Enabled
		Code 39	N/A	N/A	Enabled	N/A	N/A	Enabled
		Code 93	N/A	N/A	Enabled	N/A	N/A	Enabled
		Code 128	N/A	N/A	Enabled	N/A	N/A	Enabled
		EAN-8	N/A	N/A	Enabled	N/A	N/A	Enabled
		EAN-13	N/A	N/A	Enabled	N/A	N/A	Enabled
		GS1	N/A	N/A	Enabled	N/A	N/A	Enabled
		Composit I2of5	N/A	N/A	Enabled	N/A	N/A	Enabled
		Matrix 2of5	N/A	N/A	Enabled	N/A	N/A	Enabled
		MSI	N/A	N/A	Enabled	N/A	N/A	Enabled
		Plessey	N/A	N/A	Enabled	N/A	N/A	Enabled
		PosiCode	N/A	N/A	Enabled	N/A	N/A	Enabled
		GS1 Omni	N/A	N/A	Enabled	N/A	N/A	Enabled
		GS1	N/A	N/A	Enabled	N/A	N/A	Enabled
		Limited						
		GS1 Expanded	N/A	N/A	Enabled	N/A	N/A	Enabled
		S2of5 Ind	N/A	N/A	Enabled	N/A	N/A	Enabled
		S2of5 IATA	N/A	N/A	Enabled	N/A	N/A	Enabled
		TLC39	N/A	N/A	Enabled	N/A	N/A	Enabled
		Telepen	N/A	N/A	Enabled	N/A	N/A	Enabled
		Trioptic	N/A	N/A	Enabled	N/A	N/A	Enabled
		UPCA	N/A	N/A	Enabled	N/A	N/A	Enabled
		UPCE0	N/A	N/A	Enabled	N/A	N/A	Enabled
		UPCE1	N/A	N/A	Enabled	N/A	N/A	Enabled
	2D Symbology	AztecCode	N/A	N/A	Enabled	N/A	N/A	Enabled
		AztecRune s	N/A	N/A	Enabled	N/A	N/A	Enabled
		Codablock	N/A	N/A	Enabled	N/A	N/A	Enabled
		F						
		Code16K	N/A	N/A	Enabled	N/A	N/A	Enabled
		Code49	N/A	N/A	Enabled	N/A	N/A	Enabled
		DataMatrix	N/A	N/A	Enabled	N/A	N/A	Enabled
		MaxiCode	N/A	N/A	Enabled	N/A	N/A	Enabled
		MicroPDF PDF417	N/A N/A	N/A N/A	Enabled	N/A N/A	N/A N/A	Enabled Enabled
			N/A N/A	N/A N/A	Enabled Enabled	N/A N/A	N/A N/A	Enabled
		QRCode HanXin	N/A	N/A	Enabled Enabled	N/A	N/A	Enabled
		Code						
	Postal Codes	Postnet	N/A	N/A	Enabled	N/A	N/A	Enabled
		PlanetCod	N/A	N/A	Enabled	N/A	N/A	Enabled
		e UK Post	N/A	N/A	Enabled	N/A	N/A	Enabled
		Mayada	N/A	N/A	Enabled	N/A	N/A	Enabled
		Post						
		Kix Post	N/A	N/A	Enabled	N/A	N/A	Enabled
		Australia Post	N/A	N/A	Enabled	N/A	N/A	Enabled
		Japan Post	N/A	N/A	Enabled	N/A	N/A	Enabled
I		1				1	l l	

		China Post	N/A	N/A	Enabled	N/A	N/A	Enabled
		Korea Post	N/A N/A	N/A N/A	Enabled Enabled	N/A N/A	N/A N/A	Enabled Enabled
	OCR	OCR Off	N/A	N/A	Enabled	N/A	N/A	Enabled
	OOK	OCR A	N/A	N/A	Disabled	N/A	N/A	Disabled
		OCR B	N/A	N/A	Disabled	N/A	N/A	Disabled
		OCR USC	N/A	N/A	Disabled	N/A	N/A	Disabled
		OCR MICR	N/A	N/A	Disabled	N/A	N/A	Disabled
		OCR SEMI	N/A	N/A	Disabled	N/A	N/A	Disabled
Barcode Options	CodaBar_NoStartSt opChars	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
(270L/270D/ 470L/470D)	UPCE_as_UPCA	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
,	EAN8_as_EAN13	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	UPCE_as_EAN13	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	ReturnCheckDigit	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	VerifyCheckDigit	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	UPCA_as_EAN13	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	I2of5_VerifyCheckDi git	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	Code39_VerifyChec kDigit	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	I2of5_ReturnCheck Digit	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	Code39_ReturnChe ckDigit	Enabled/ Disabled	Disabled	Disabled	N/A	Disabled	Disabled	N/A
	UPCE_ReturnCheck Digit	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	UPCA_ReturnCheck Digit	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	EAN8_ReturnCheck Digit	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
	EAN13_ReturnChec kDigit	Enabled/ Disabled	Enabled	Enabled	N/A	Enabled	Enabled	N/A
Barcode Options (270C/470C)	Codabar	Tx StartStop (Enabled/ Disabled)	N/A	N/A	Disabled	N/A	N/A	Disabled
		Check Digit (DoNotVeri fy/VerfyDO NotTX/Veri fyDoTx)	N/A	N/A	DoNotVerify	N/A	N/A	DoNotVerify
		Concatena te(Disable d/Enabled/ Required)	N/A	N/A	Enabled	N/A	N/A	Enabled
	Code39	Tx StartStop (Enabled/ Disabled)	N/A	N/A	Disabled	N/A	N/A	Disabled
		Check Digit(DoNo tVerify/Verf yDONotTX /VerifyDoT x)	N/A	N/A	DoNotVerify	N/A	N/A	DoNotVerify
		Append (Enabled/ Disabled)	N/A	N/A	Disabled	N/A	N/A	Disabled
		Full ASCII(Enab led/Disabl ed)	N/A	N/A	Disabled	N/A	N/A	Disabled
	I2of5	Check Digit (DoNotVeri fy/VerfyDO NotTX/Veri fyDoTx)	N/A	N/A	DoNotVerify	N/A	N/A	DoNotVerify
-	Code11	Check Digit (2 digits/1 digit)	N/A	N/A	2 digits	N/A	N/A	2 digits
	Code128	Concatena te(Disable d/Enabled)	N/A	N/A	Disabled	N/A	N/A	Disabled

Telepen	Output(Ori	N/A	N/A	AIM	N/A	N/A	AIM
UPCA	ginal/AIM) VerifyChkD	N/A	N/A	Enabled	N/A	N/A	Enabled
	gt(Enabled						
	/Disabled) NumberSy	N/A	N/A	Enabled	N/A	N/A	Enabled
	s(Enabled/		1071	Linabida		1071	Lindblod
	Disabled)						
	2DgtAdden da(Enable	N/A	N/A	Disabled	N/A	N/A	Disabled
	d/Disabled						
)						
	5DgtAdden da(Enable	N/A	N/A	Disabled	N/A	N/A	Disabled
	d/Disabled						
)						
	Req.	N/A	N/A	Disabled	N/A	N/A	Disabled
	Addenda (Enabled/						
	Disabled)						
	Sep.	N/A	N/A	Enabled	N/A	N/A	Enabled
	Addenda (Enabled/						
	Disabled)						
	Coupon	N/A	N/A	Enabled	N/A	N/A	Enabled
	Code (Enabled/						
	Disabled)						
UPCE	Expand	N/A	N/A	Disabled	N/A	N/A	Disabled
	(Enabled/ Disabled)						
	Req.	N/A	N/A	Disabled	N/A	N/A	Disabled
	Addenda (Enabled)						
	(Enabled/ Disabled)						
	Sep.	N/A	N/A	Enabled	N/A	N/A	Enabled
	Addenda						
	(Enabled/ Disabled)						
	Check	N/A	N/A	Enabled	N/A	N/A	Enabled
	Digit						
	(Enabled/ Disabled)						
	NumberSy	N/A	N/A	Enabled	N/A	N/A	Enabled
	s(Enabled/ Disabled)						
	2DgtAdden	N/A	N/A	Disabled	N/A	N/A	Disabled
	da(Enable						
	d/Disabled						
	5DgtAdden	N/A	N/A	Disabled	N/A	N/A	Disabled
	da(Enable						
	d/Disabled						
EAN-13) VerifyChkD	N/A	N/A	Enabled	N/A	N/A	Enabled
	gt(Enabled						
	/Disabled)	N/A	N/A	Disabled	N/A	N/A	Disabled
	2DgtAdden da(Enable	IN/A	IN/A	DISADIEU	IN/A	IN/A	Disabled
	d/Disabled						
) 5DgtAdden	N/A	N/A	Disable 4	N/A	N/A	Disabled
	da(Enable	IV/A	IN/A	Disabled	IN/A	IN/A	Disabled
	d/Disabled						
) Pog	NI/A	NI/A	Disable 4	NI/A	N1/A	Disabled
	Req. Addenda	N/A	N/A	Disabled	N/A	N/A	Disabled
	(Enabled/						
	Disabled)	NI/A	NI/A	Epoble 4	NI/A	N1/A	Enobled.
	Sep. Addenda	N/A	N/A	Enabled	N/A	N/A	Enabled
	(Enabled/						
	Disabled)	NI/A	N1/A	Dineblad	N1/A	N1/A	Din-bl-d
	ISBN Trans.	N/A	N/A	Disabled	N/A	N/A	Disabled
	(Enabled/						
FALLS	Disabled)	h 1 / A	h1/2	Exercise 2	h1/A	h1/A	F I
EAN-8	VerifyChkD gt(Enabled	N/A	N/A	Enabled	N/A	N/A	Enabled
	5-(
	/Disabled)						
	2DgtAdden	N/A	N/A	Disabled	N/A	N/A	Disabled
	2DgtAdden da(Enable	N/A	N/A	Disabled	N/A	N/A	Disabled
	2DgtAdden	N/A	N/A	Disabled	N/A	N/A	Disabled
	2DgtAdden da(Enable d/Disabled	N/A N/A	N/A	Disabled Disabled	N/A	N/A N/A	Disabled Disabled

		d/Disabled			1			
		d/Disabled)						
		Req.	N/A	N/A	Disabled	N/A	N/A	Disabled
		Addenda						
		(Enabled/ Disabled)						
		Sep.	N/A	N/A	Enabled	N/A	N/A	Enabled
		Addenda						
		(Enabled/ Disabled)						
	MSI	Tx	N/A	N/A	Disabled	N/A	N/A	Disabled
		CheckChar						
		(Enabled/ Disabled)						
	PosiCode	A and	N/A	N/A	A&B	N/A	N/A	A&B
		B/A&B	, i		LimitedB	·		LimitedB
		LimitedA/A						
		&B LimitedB						
	GS1	UPCEAN	N/A	N/A	Disabled	N/A	N/A	Disabled
		Ver.(Enabl						
		ed/Disable d)						
		GS1	N/A	N/A	No Emulate	N/A	N/A	No Emulate
		Emulation						
		(No Emulate/						
		GS1 128						
		Emul/GS1						
	D	Emulate)	N1/A	N1/A	Disable	NI/A	N1/A	Disable
	PostNet	Tx CheckChar	N/A	N/A	Disabled	N/A	N/A	Disabled
		(Enabled/						
		Disabled)					ļ	
	PlanetCode	Tx CheckChar	N/A	N/A	Disabled	N/A	N/A	Disabled
		(Enabled/						
		Disabled)						
Scan Options	Power	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	Scan Angle	Disabled Narrow/	Wide	N/A	N/A	Wide	N/A	N/A
		Wide						
	Filter	Normal/	Normal	N/A	N/A	Normal	N/A	N/A
		1.00 - 0						
	Time Out	High .5 seconds	2 second(s)	2 second(s)		2 second(s)	2 second(s)	2 second(s)
	Time Out	High .5 seconds to 10	2 second(s)	2 second(s)	2 second(s)	2 second(s)	2 second(s)	2 second(s)
		.5 seconds to 10 seconds			2 second(s)			
	Min. Barcode	.5 seconds to 10 seconds 2 to 36	2 second(s) 4 chars	2 second(s) 4 chars		2 second(s) 4 chars	2 second(s) 4 chars	2 second(s) N/A
		.5 seconds to 10 seconds			2 second(s)			
	Min. Barcode Length Min. Barcode Length	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters	4 chars	4 chars	2 second(s) N/A 4 chars	4 chars	4 chars	N/A 4 chars
	Min. Barcode Length Min. Barcode Length Security Level	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level	4 chars N/A 2 level	4 chars N/A N/A	2 second(s) N/A 4 chars N/A	4 chars N/A 2 level	4 chars N/A N/A	N/A 4 chars N/A
	Min. Barcode Length Min. Barcode Length	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/	4 chars	4 chars	2 second(s) N/A 4 chars	4 chars	4 chars	N/A 4 chars
	Min. Barcode Length Min. Barcode Length Security Level	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level	4 chars N/A 2 level	4 chars N/A N/A	2 second(s) N/A 4 chars N/A	4 chars N/A 2 level	4 chars N/A N/A	N/A 4 chars N/A
	Min. Barcode Length Min. Barcode Length Security Level Image Capture	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled	4 chars N/A 2 level N/A Disabled	4 chars N/A N/A N/A N/A Disabled	2 second(s) N/A 4 chars N/A Disabled Disabled	4 chars N/A 2 level N/A Disabled	4 chars N/A N/A N/A N/A Disabled	N/A 4 chars N/A Disabled Disabled
	Min. Barcode Length Min. Barcode Length Security Level Image Capture	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou	4 chars N/A 2 level N/A	4 chars N/A N/A N/A	2 second(s) N/A 4 chars N/A Disabled	4 chars N/A 2 level N/A	4 chars N/A N/A N/A	N/A 4 chars N/A Disabled
	Min. Barcode Length Min. Barcode Length Security Level Image Capture	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short,	4 chars N/A 2 level N/A Disabled	4 chars N/A N/A N/A N/A Disabled	2 second(s) N/A 4 chars N/A Disabled Disabled	4 chars N/A 2 level N/A Disabled	4 chars N/A N/A N/A N/A Disabled	N/A 4 chars N/A Disabled Disabled
	Min. Barcode Length Min. Barcode Length Security Level Image Capture	5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra	4 chars N/A 2 level N/A Disabled	4 chars N/A N/A N/A N/A Disabled	2 second(s) N/A 4 chars N/A Disabled Disabled	4 chars N/A 2 level N/A Disabled	4 chars N/A N/A N/A N/A Disabled	N/A 4 chars N/A Disabled Disabled
	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Continuou s, Short, Medium, Long, Extra Long	4 chars N/A 2 level N/A Disabled Medium	4 chars N/A N/A N/A Disabled Medium	2 second(s) N/A 4 chars N/A Disabled Disabled Medium	4 chars N/A 2 level N/A Disabled Medium	4 chars N/A N/A N/A Disabled Medium	N/A 4 chars N/A Disabled Disabled Medium
	Min. Barcode Length Min. Barcode Length Security Level Image Capture	5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Di Enabled/Di Enabled/Di Enabled/Di Enabled/Di Enabled/Di Enabled/Di Enabled/Di Enabled/Di	4 chars N/A 2 level N/A Disabled	4 chars N/A N/A N/A N/A Disabled	2 second(s) N/A 4 chars N/A Disabled Disabled	4 chars N/A 2 level N/A Disabled	4 chars N/A N/A N/A N/A Disabled	N/A 4 chars N/A Disabled Disabled
	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay	.5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Continuou s, Short, Medium, Long, Extra Long	4 chars N/A 2 level N/A Disabled Medium	4 chars N/A N/A N/A Disabled Medium	2 second(s) N/A 4 chars N/A Disabled Disabled Medium	4 chars N/A 2 level N/A Disabled Medium	4 chars N/A N/A N/A Disabled Medium	N/A 4 chars N/A Disabled Disabled Medium
	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger	5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Disabled Start Position	4 chars N/A 2 level N/A Disabled Medium N/A	4 chars N/A N/A N/A Disabled Medium N/A	2 second(s) N/A 4 chars N/A Disabled Medium N/A	4 chars N/A 2 level N/A Disabled Medium N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A
	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger	5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Di sabled Start Position No. of	4 chars N/A 2 level N/A Disabled Medium	4 chars N/A N/A N/A Disabled Medium	2 second(s) N/A 4 chars N/A Disabled Medium N/A	4 chars N/A 2 level N/A Disabled Medium	4 chars N/A N/A N/A Disabled Medium	N/A 4 chars N/A Disabled Disabled Medium
	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger	5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Disabled Start Position	4 chars N/A 2 level N/A Disabled Medium N/A	4 chars N/A N/A N/A Disabled Medium N/A	2 second(s) N/A 4 chars N/A Disabled Medium N/A	4 chars N/A 2 level N/A Disabled Medium N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger	5 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s)	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display	5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuous, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display	5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Onl y Wedge &	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display	5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Onl y Wedge & Store	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display	5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Onl y Wedge &	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display	.5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Di sabled Start Position No. of Char(s) Action Wedge Onl y Wedge Onl y Wedge & Store Always	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display	5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuous, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Onl y Wedge & Store Always Store Only Save if Sent	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display	5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Onl y Wedge & Store Always Store Only Save if Sent Save if Not	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display	5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuous, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Onl y Wedge & Store Always Store Only Save if Sent	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display Wedge / Store	5 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuou s, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Onl y Wedge & Store Always Store Only Save if Sent Save if Not Sent	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A Default	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A Default	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A Default
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display Wedge / Store	5 seconds to 10 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuous, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Only Wedge & Store Always Store Only Save if Sent Barcode only Packet	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A Default	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A Default	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A Default
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display Wedge / Store	5 seconds to 10 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuous, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Onl y Wedge & Store Always Store Only Save if Sent Save if Not Sent Barcode only	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A Default	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A Default	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A Default
Data Process	Min. Barcode Length Min. Barcode Length Security Level Image Capture Auto Trigger Reread Delay Finger Trigger Partial Display Wedge / Store	5 seconds to 10 seconds to 10 seconds to 10 seconds 2 to 36 characters 2 to 48 characters 1 to 4 level Enabled/ Disabled Enabled/ Disabled Continuous, Short, Medium, Long, Extra Long Enabled/Disabled Start Position No. of Char(s) Action Wedge Only Wedge & Store Always Store Only Save if Sent Barcode only Packet	4 chars N/A 2 level N/A Disabled Medium N/A 1 0 chars Select	4 chars N/A N/A N/A Disabled Medium N/A 1 0 chars Select	2 second(s) N/A 4 chars N/A Disabled Disabled Medium N/A 1 0 chars Select	4 chars N/A 2 level N/A Disabled Medium N/A N/A N/A N/A Default	4 chars N/A N/A N/A Disabled Medium N/A N/A N/A N/A Default	N/A 4 chars N/A Disabled Disabled Medium N/A N/A N/A N/A Default

	Data Editor/AIM ID	None/In Prefix/In	None	None	None	None	None	None
		Suffix						
	Data Editor/Partial Data	Start Position	1	1	1	1	1	1
		No. of	0 chars					
		Char(s) Action	Select	Select	Select	Select	Select	Select
	Handshake	Enable/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Terminator	Disabled None, CR,	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF	CR+LF
		LF, CR+LF,						
		Tab, Right Arrow, Left						
		Arrow,Dow n Arrow,						
		Up Arrow						
	Chk Duplicate	Enabled/ Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Enter Key	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	Extend Key	Disabled Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	Ago Vorify	Disabled	NI/A	NI/A	Disabled	NI/A	NI/A	Disabled
	Age Verify	Verification Enabled/	N/A	N/A	Disabled	N/A	N/A	Disabled
		Disabled Age	N/A	N/A	21	N/A	N/A	21
		Default						
BT Config	ConnectDevice (Non Mfi mode)	SPP HID iOS	Default	Default	Default	Default	Default	Default
	,	SPP2.0						
		HID						
	ConnectDevice	normal SPP						
	(Mfi mode)	MFi	Default	Default	Default	Default	Default	Default
	Auto Connect	Enabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto Reconnect	/Disabled Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
		Disabled						
	Auto Power On	Enabled/ Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto Power	disabled,	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	On/Power On Time	1sec to 10second(
	Auto Power Off	s)	District.	6:	6:111	Disabled	6:111	6:111
	Auto Power Oil	Enabled/ Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto Power Off/Beep Warning	Enabled/ Disabled	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Auto Power	1 to 30	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Off/Power Off Time PowerOff Msg	minutes Enabled/Di	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	NAAC Address	sabled						
	MAC Address	12 Characters						
		Bluetooth MAC						
		Address						
	BT FW Version	v1.2.xrt Bluetooth						
		Firmware Version						
	Wakeup Nulls	Enabled/Di	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	Connect Alert	sabled Enabled/Di	N/A	N/A	N/A	N/A	N/A	N/A
		sabled						
	BT Toggle	Enabled/Di sabled	Enabled	Enabled	Enabled	Disabled	Disabled	Disabled
	DisconnectBtn	Enabled/Di	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
	HID AutoLock	sabled disabled,1,	1 minutes	1 minutes	1 minutes	1 minutes	1 minutes	1 minutes
		2,3,4,5,10,1 5 minutes						
	HID Keyboard	US, German,	US	US	US	US	US	US
		French						
		,Italian, Spanish						
	HID Delay/Initial	Disabled,	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
		1,2,3,5,10 secs						
	HID Delay/Inter char	Disabled,1 0, 20, 30,	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
1	I	0, 20, 00,		l	l	I	I	I

		50,						
		100msec						
	HID Ctrl Char	Disabled, Alt+Numpa	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
		d,						
		^+Charact						
		er, Replace						
BT Service	Power	to Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
		Disabled						
	Pairing	Pairing						
		neighborin g						
		Bluetooth						
		devices						
	Discovering	Discoverin						
		g neighborin						
		g						
		Bluetooth						
	Connecting to	devices View						
		Connect to						
		Bluetooth						
	Disconnect	device	N/A	N/A	N/A	N/A	N/A	N/A
	HID Sync		14/7	14/7	14/7	14/7	14/7	IN/A
		Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Auto Pairing	Disabled	Enabled	Enabled	ELIADIEU	Enabled	Enabled	Enabled
USB Config	USB Mode	Disabled/	Disabled	Disabled	Disabled	N/A	N/A	N/A
(M model)		USB Disk/						
N/50 0	NEO D	USB HID	NI/A	N1/A	NI/A	N1/A	N1/A	21/2
NFC Config (N model)	NFC Power	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A
(Data Format	Barcode	N/A	N/A	N/A	N/A	N/A	N/A
	Dala Follilat	only/Packe	IN/A	IN/A	IN/A	IN/A	IN/A	IN/A
		t Data						
	UID Only	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
		Disabled						
GPS Config	GPS Power	Disabled	N/A	N/A	N/A	N/A	N/A	N/A
(G model)	Power Mode	Normal/Po wer Save	N/A	N/A	N/A	N/A	N/A	N/A
	Bypass Data	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	_,,,	Disabled						
	Acqurie Test		N/A	N/A	N/A	N/A	N/A	N/A
	Reset GPS		N/A	N/A	N/A	N/A	N/A	N/A
System	Memory Size	0.5/6.5, 1/6,	0.5/6.5	0.5/6.5	0.5/6.5	0.5/6.5	0.5/6.5	0.5/6.5
Config		2/5,3 /4,						
		4/3, 5/2, 6/1, 7/0						
	Memory Status	No. of						
		Stored						
		Barcodes						
		Free Memory						
		Available						
	Reset Memory	Memory						
		(Empties Data)						
		Application				N/A	N/A	N/A
		Memory						
		BT Registry						
ľ	Auto Erase	Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Sleep Timeout	Disabled Disabled,	5 second(a)	5 second(s)	5 second(s)	5 second(s)	5 second(a)	5 cocond/-
	Siech Littleont	1sec to	5 second(s)	5 second(s)	5 second(s)	o second(s)	5 second(s)	5 second(s
		10minute(s]]	
	D-1: /T)						
	Date / Time	YYYY:MM: DD &						
		HH:MM:SS						
	Battery	% of						
		Battery]]	
		Charge Available						
	Version	Firmware	N/A	N/A	N/A	N/A	N/A	N/A
	VCISIOII		Ì	1	I			
	Version	Version &						
		Serial No.	District 1	Donate 1	District 1	Director 1	Direction 1	P
	Button Lock	Serial No. Enabled/	Disabled	Disabled	Disabled	Disabled	Disabled	Disabled
		Serial No.	Disabled Enabled	Disabled Enabled	Disabled Enabled	Disabled Enabled	Disabled Enabled	Disabled Enabled

	Beep Alert /Power	Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	On Beep Beep Alert /Beep	Disabled Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	On Connect	Disabled	Lilabled	Lilabled	Lilabled	Lilabled	Lilabled	Lilabled
	Beep Alert /Beep	Enabled/	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	On Scan	Disabled						
	Beep Alert /BeepOnMSCard	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A
	Beep Alert	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	/BeepOnICCard	Disabled						
	Beep Alert	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	/BeepOnNFCCard	Disabled	1	1	1	1	1	1
	Beep Volume	Low/High	Low	Low	Low	Low	Low	Low
	Mfi (i-chip installed)	Enabled/Di sabled	Enabled	Enabled	Enabled	Enabled	Enabled	Enabled
	Auto Exit	Enabled/	Enabled	Enabled	Enabled	N/A	N/A	N/A
		Disabled						
	Port Status	Enabled/	Enabled	Enabled	Enabled	N/A	N/A	N/A
	Display Format	Disabled Time &	Time &	Time &	Time &	N/A	N/A	N/A
	Diopidy Format	Battery /	Battery	Battery	Battery	1471	1471	1071
		Type &	,	1	,			
		Time /						
		Type & Battery /						
		Memory						
		Status /						
		GPS Data(KDC2						
		50						
		only)/Barc						
	Menu Barcode	ode Only Enabled/	N/A	N/A	Disabled	N/A	N/A	Disabled
	World Baroodo	Disabled		1971	Disabled	1471	1471	Disabica
	Scrolling	Enabled/	Enabled	Enabled	Enabled	N/A	N/A	N/A
	Brightness	Disabled 1 to 15	8	8	8	N/A	N/A	N/A
	J	level(8						
	W I	level)	A1/A	N1/A	N1/A	N1/A	N1/A	N1/A
	Keypad	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A
	Language	None/	None	None	None	N/A	N/A	N/A
		US(English						
)/ French/						
		Italian/						
		Spanish/						
		Korean/ Japanese						
	Factory Default	Restores						
		Default						
MSR Config	Power	Settings Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
won comg	1 00001	Disabled /	1477	107	1477	14//	1477	1074
	Data Format	MSR Data	N/A	N/A	N/A	N/A	N/A	N/A
		Only	N/A	N/A	N/A	N/A	N/A	N/A
		Packet Data	IN/A	IV/A	IN/A	IN/A	IN/A	IN/A
	Use Track1	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	Lies Total O	Disabled	N1/A	N1/4	N1/A	N1/A	N1/A	N1/4
	Use Track2	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A
	Use Track3	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	N. Holes I = 1	Disabled	h1/*	A177	h1/*	h1/*	A177	h1/1
	Null Check Track1	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A
	Null Check Track2	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	N. HOL. 1 = 15	Disabled	h1/*	A171	A177	A177	A177	h1/1
	Null Check Track3	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A
	Beep on error	Enabled/	N/A	N/A	N/A	N/A	N/A	N/A
	reading	Disabled Enabled/	N1/A	NI/A	N1/A	N1/A	N1/A	N1/A
	Encrypt MSR Data	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A
	AES Key Length	128bit/192	N/A	N/A	N/A	N/A	N/A	N/A
	Card Type	bit/256bit ISO/OTHE	N/A	N/A	N/A	N/A	N/A	N/A
	Odia Type	R 1/AAMVA	14//	14/7	14/7	14//	14//	14/7
	Track Separator	None/Spa	N/A	N/A	N/A	N/A	N/A	N/A
		ce/Comm a/Semicol						
		on/CR/LF/						
		CR&LF/Ta						
		b						

	Attach Start/End	1	N/A	N/A	N/A	N/A	N/A	N/A
	Sentinel		IN/A	IVA	IVA	IN/A	IN/A	IN/A
	Partial Data Start Position		N/A	N/A	N/A	N/A	N/A	N/A
	Partial Data Length		N/A	N/A	N/A	N/A	N/A	N/A
	Partial Data Action	Erase/ Select	N/A	N/A	N/A	N/A	N/A	N/A
ICCR Config	Power	Enabled/ Disabled /	N/A	N/A	N/A	N/A	N/A	N/A
	IFD Number		N/A	N/A	N/A	N/A	N/A	N/A
	Config Number		N/A	N/A	N/A	N/A	N/A	N/A
Key Mgmt	Stored Keys		N/A	N/A	N/A	N/A	N/A	N/A
	Inject Keys		N/A	N/A	N/A	N/A	N/A	N/A
Sensitive/	Date		N/A	N/A	N/A	N/A	N/A	N/A
Set	Time		N/A	N/A	N/A	N/A	N/A	N/A
Date/Time	Time							
Sensitive/ Set Self-Test			N/A	N/A	N/A	N/A	N/A	N/A
Sensitive/	1st Password		N/A	N/A	N/A	N/A	N/A	N/A
Set Passwords	2nd Password		N/A	N/A	N/A	N/A	N/A	N/A
Sensitive/	Stored Keys		N/A	N/A	N/A	N/A	N/A	N/A
Key Mgmt	Inject Keys		N/A	N/A	N/A	N/A	N/A	N/A
	Clear Keys		N/A	N/A	N/A	N/A	N/A	N/A
Sensitive/ Card Encrypt		Plaintext / TDES / AES	N/A	N/A	N/A	N/A	N/A	N/A
UHF Configuration	UHF Power	Enabled/ Disabled	N/A	N/A	N/A	N/A	N/A	N/A
(UHF model)	Power On Time	500ms/1se c/1.5sec/2 sec/2.5sec /3sec/3.5s ec/4sec/4. 5sec/5sec	N/A	N/A	N/A	N/A	N/A	N/A
	Power Off Time	500ms/1se c/1.5sec/2 sec/2.5sec /3sec/3.5s ec/4sec/4. 5sec/5sec	N/A	N/A	N/A	N/A	N/A	N/A
	Power Level	0/1/2/3/4/ 5/6/7	N/A	N/A	N/A	N/A	N/A	N/A
	Data Format	Hexa Decimal / Binary	N/A	N/A	N/A	N/A	N/A	N/A

Table 3 - KDC Menu

KDC Mode Menu

The KDC Mode Menu has two options - Normal Mode and Application Mode.

Normal

This is the default mode that provides basic barcode scanning. In normal mode, barcode data may be manipulated directly through the KDC or through KTSync during the synchronization process.

Application

This mode enables the user to run the user application created by the Application Generation Tool, as described in **Chapter 6 Application Generation**.

View Data Menu

This menu option enables the user to view and/or delete barcodes stored in the KDC. In the case of the KDC20/30, you may delete the last scanned barcode by pressing the DELETE button on the right side of the unit.



Figure 14 - Delete Function in KDC20/30

Set Barcodes Menu

This menu lists all the barcode symbologies supported by the KDC and enables the user to select the barcode symbologies to be scanned. For maximum scan performance, you should select only the symbologies that you will be scanning. Please refer to 10. Appendix A – 10.1 Symbologies for a detailed listing of symbologies supported by the KDC.

Code Options Menu

The KDC supports various Code Options, including Transmission of Start and Stop Characters, Symbology Conversion, Verification of Optional Check Character, and Transmission of Check Digit. Please refer to 10. Appendix A – 10.2 Code Options for a detailed explanation of each option.

Scan Options Menu

Power(KDC500 only)

Users may choose to turn the Scan Engine Power on or off. Select between Enable and Disable.

Scan Angle (Opticon laser model only)

This option enables the user to configure the laser beam angle to the barcode. There are two options for scan angle: Wide and Narrow. Wide is 54 and Narrow is 27. The default is wide.

Filter (Opticon laser model only)

This menu enables the user to change the Filter mode from Normal to High for poor quality barcodes. The default is Normal.

Timeout

In this menu, you may set the scan timeout. The timeout options are from 500ms up to 10 seconds. The default is 2 seconds.

Minimum Barcode Length

This option enables the user to set a barcode length from 2 characters to 36 characters (KDC20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L) or 2 characters to 48 characters (KDC30/270C/300/350C/420/421/425/450/470C/500C). It is strongly recommended that you maximize the minimum barcode length setting to prevent possible errors.

- The default minimum barcode length of KDC20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L is 4 characters.
- ➤ The default minimum barcode length of KDC30/270C/300/350C/420/421/450/470C/500C is as follows:

		Minimum (Default)	Maximum (Default)
	Codabar	2(4)	60(60)
	Code 11	1(4)	80(80)
10	Code 32	-	-
1D Symbology	Code 39	0(0)	48(48)
	Code 93	0(0)	80(80)
	Code 128	0(0)	80(80)
	EAN-8	-	-

	EAN-13	-	-
	GS1 Composite	-	-
	12of5	2(4)	80(80)
	Matrix 2of5	1(4)	80(80)
	MSI	4(4)	48(48)
	Plessey	4(4)	48(48)
	PosiCode	2(4)	80(48)
	GS1 Omni	-	-
	GS1 Limited	-	-
	GS1 Expanded	4(4)	74(74)
	S2of5 Ind	1(4)	48(48)
	S2of5 IATA	1(4)	48(48)
	TCL39	-	-
	Telepen	1(1)	60(60)
	Trioptic	-	-
	UPCA	-	-
	UPCE0	-	-
	UPCE1	-	-
	AztecCode	1(1)	3750(3750)
	AztecRunes		
	CodablockF	1(1)	2048(2048)
	Code16K	0(1)	160(160)
0.5	Code49	1(1)	81(81)
2D -	DataMatrix	1(1)	1500(1500)
Symbology -	MaxiCode	1(1)	150(150)
	MicroPDF	1(1)	366(366)
	PDF417	1(1)	2750(2750)
	QRCode	1(1)	3500(3500)
	HanXin Code	-	-
	Postnet	-	-
Ī	PlanetCode	-	-
	UK Post	-	-
	Mayada Post	-	-
Postal Codes	Kix Post	-	-
	Australia Post	-	-
	Japan Post	-	-
	China Post	2(4)	80(80)
Ī	Korea Post	2(4)	80(48)
	OCR Off	-	-
OCR	OCR A	-	-
	OCR B	-	-

OCR Passport	-	-
OCR MICR	-	-
OCR SEMI	-	-

Table 4 - KDC30/270C/300/350C/420/450/470C/500C Minimum Barcode Length

Image Capture (KDC30/270C/300/350C/420/421/425/450/470C)

This option enables the user to capture an image in JPEG format in C:\myData folder. You should enable the image capture option first, and then press the Scan button to start the aiming. A green aiming light will illuminate and an image will be taken upon release of the Scan button. KDC will disable the image capture option if the user presses the scan button for 5 seconds.

<u>Security Level</u> (Laser Model only)

This menu enables the user to ensure an accurate barcode reading by setting the number of times the KDC will read a barcode. Security Level is set from 1 up to 4. The higher security level means readings are more reliable; however, some performance degradation is likely. For poor quality barcodes, we recommend increasing the security level. The default is 2.

Auto Trigger

Once enabled, Auto Trigger enables the user to scan a barcode automatically. You may adjust reread delay from continuous to extra-long. Auto Trigger mode always enables the duplicate check option.(1D Model only)



- USB cable insertion requirement is removed from FW2.85/86.0 and FW 3.02.
- You may exit the auto trigger mode by pressing the scan button for 3 seconds.

Reread Delay

You may adjust the reread delay from continuous to extra-long.

Partial Display

This option enables the user to display partial data. You may define the start position and number of characters to be displayed.

Data Process Menu

Wedge/Store

The KDC provides five modes of data transmission in keyboard wedging mode.

- Wedge Only: Barcode data is NOT stored in memory but transmitted to the host.
- Wedge & Store Only: Barcode data is stored in memory and transmitted to the host
- Store Only: Barcode data is stored in memory but NOT transmitted to the host.
- Save if Sent: If data transmission is successful, barcode data is stored in memory.
- Save if Not Sent: If data transmission is NOT successful, barcode data is stored in memory.

Data Format

The KDC provides two data formats, Barcode Only and Packet Data.

- Barcode Only: The KDC transmits scanned barcodes only. You may
 incorporate appropriate data transmission error detection and correction
 mechanisms in this mode. KDC supports a selection of various termination
 characters for Barcode Only format. You may select <NONE>, <CR>, <LF>,
 <CR+LF> or <TAB> as the termination character.
- Packet Data: KDC transmits packet data with checksum to minimize transmission errors. KTSync sets Data Format to Packet Data format upon execution.
 - You may change **Data Format** to **Barcode Only** if you would prefer to use the Barcode Only mode. However, the KDC would stay in Packet Data mode if KTSync is aborted abnormally. If this is the case, you may have to change the KDC back to Barcode Only mode manually.
 - Barcode Index: KDC20i/30i/200i/250i/300i/270i/350i/400i/470i/500i add 4 bytes barcode index to maintain last synchronized barcode information.

Note

- This optional index would be added if data format is "Packet Data".
- 4 bytes index would be added before "@" when responding to "p"

command.

- 4 bytes index plus "@" character would be added after checksum byte if the user scans a barcode and wedges to the host.

Data Editor

The KDC provides various data editing options.

 Prefix - Enables user to add a prefix to scanned data that may then be wedged to the host. The Prefix must be defined in the KTSync. The maximum length for a Prefix is 11 characters.

Note

This Prefix option is different from the Prefix option in KTSync, which attaches the prefix to data during synchronization.

Note

The user may also define the prefix by scanning characters defined in Appendix C&D(E&F for KDC500). as shown below in the special barcodes.

★ KDC20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L

Prefix Enter Start



Prefix/Suffix Enter Finish



★ KDC30/270C/300/350C/420/421/425/450/470C/500C

Prefix Enter Start



Prefix/Suffix Enter Finish



Note

Users may also delete or display current prefixes by scanning the following special barcodes.

★ KDC20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L

Delete Prefix



Display Prefix



★ KDC30/270C/300/350C/420/421/425/450/470C/500C

Delete Prefix



Display Prefix



 Suffix - Enables the user to add a suffix to scanned data, which may then be wedged to the host. The suffix must be defined in the KTSync. The maximum length for a suffix is 11 characters.

Note

• This Suffix option is different from the Suffix option in KTSync, which appends the suffix to data during synchronization.

Note

- The user may also define the suffix by scanning characters defined in Appendix C&D(E&F for KDC500). as shown below in the special barcodes.
- → 20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L

Suffix Enter Start



Prefix/Suffix Enter Finish



→ KDC30/270C/300/350C/420/421/425/450/470C/500C

Suffix Enter Start



Prefix/Suffix Enter Finish



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Note

The user may also delete or display a current suffix by scanning the following special barcodes.

→ KDC20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L

Delete Suffix



Display Suffix



★ KDC30/270C/300/350C/420/421/425/450/470C/500C

Delete Suffix



Display Suffix



TMKDC83007.

- AIM ID Enables the user to add AIM ID to scanned data, which may then be wedged to the host. AIM ID can be added to the end of a Prefix or Suffix.
- Partial Data: Enables the user to store and/or transfer partial data. The user defines the start position and number of characters to be stored and/or transferred. The user also can select if taking or erasing the characters selected with Start position and No of char(s).
 - Start position
 - ◆ This option specifies the start position of data.
 - No of char(s)
 - This option specifies the length of data. The '0' means all data.

Action

◆ This option selects if erasing or taking the specified data.

Handshake(Deprecated)

KDC provides Handshake mode when Data Format is set to Packet Data.

- Handshake Mode will increase the reliability of barcode data transmission.
- The default mode for Handshake is disabled.
- Data transmission speed is slower when Handshake Mode is enabled.

Terminator

The KDC supports various termination characters when the Data Format mode is set to Barcode only. Select <NONE>, <CR>, <LF>, <CR+LF>, or <TAB> as the termination character. The default terminator is <CR+LF>. The Up/Down/Left/Right arrow terminator is also available for HID mode.

Chk Duplicate

This option prevents you from collecting duplicate data.

Enter Key (KDC350/500 only)

This option determines the behavior of the '#' key on the keypad.

- If this option is enabled, the '#' key acts as a keyboard enter key.
 - The '#' key finishes the current data input, and stores/sends input data according to the menu settings of **Wedge/Store**.
 - > The cursor moves to next line after the current data input is complete, regardless of whether there is a data input or not.
 - ➤ The screen is scrolled up one line if the '#' key is pressed on the last line of KDC screen.
 - > If 'Shift' is enabled, remember that the '#' key will input the '#' character.

Extend Key (KDC350/500 only)

This option enables users to enter more symbols by using keypad.

Age Verification (KDC30/270C/300/350C/420/421/425/450/470C)

This option enables to verify age by reading driver license.

BT Config Menu - KDC20/30/200/250/270/300/350/400/470/500

The KDC supports *Bluetooth* Ver2.1+EDR. Before utilizing the advantages of Bluetooth functionality with the KDC, the user should become familiar with Bluetooth connectivity and its impact on the host environment.

To configure your KDC for Bluetooth functionality, you may use the KDC Menus.

Below is a listing of the Bluetooth options and their settings. The default settings for these options have been set to increase the usability of Bluetooth technology without compromising the KDC battery usage.

IMPORTANT: We strongly recommend NOT changing these settings until the user has fully tested the Bluetooth connection between the KDC and the host device.

For more detailed information regarding Bluetooth functionality with the KDC, please refer to <u>Chapter 4. BLUETOOTH.</u>

ConnectDevice

You may choose the Bluetooth device type in this option.

- HID normal KDC20(i)/30(i)/200(i)/250(i)/270(i)/300(i)/350(i)/400(i)/470(i)
- HID iOS KDC20(i)/30(i)/200(i)/250(i)/270(i)/300(i)/350(i)/400(i)/470(i)
- SPP2.0 KDC20(i)/30(i)/200(i)/250(i)/270(i)/300(i)/350(i)/400(i)/470(i)
- SPP KDC20(i)/30(i)/200(i)/250(i)/270(i)/300(i)/350(i)/400(i)/470(i)/500(i)
- MFi KDC20i/30i/200i/250i/270i/300i/350i/400i/470i/500i

Auto Connect

Enabled or Disabled(KDC500 doesn't support)

Auto Reconnect

Enabled or Disabled

Auto Power On

Enabled or Disabled(KDC500 doesn't support)

PWR On Time

Disabled, 1 to 10 seconds(KDC500 doesn't support)

Auto Power Off

Enabled or Disabled (KDC250G/350G should use option in system menu)

(KDC500 doesn't support)

Beep Warning

Enabled or Disabled(KDC500 doesn't support)

PWR Off Time

1 to 30 Minutes(KDC500 doesn't support)

PowerOff Msg

Enabled or Disabled(KDC500 doesn't support)

MAC Address

When users select this option, KDC displays 12 characters *Bluetooth* MAC Address.

FW Version

This option displays Bluetooth Firmware Version

Wakeup Nulls

Enabled or Disabled(KDC500 doesn't support)

BT Toggle

Enable or Disable iOS device soft keyboard or Connect/Disconnect Bluetooth. (KDC500 doesn't support)

BT Disconnect Button

Enable or Disable Bluetooth disconnection by pressing down button for 3 seconds. (KDC500 doesn't support)

HID AutoLock

Disabled, 1, 2, 3, 4, 5, 10, 15 minutes (KDC500 doesn't support)

HID Keyboard

Users may select a keyboard language in HID mode. KDC supports five languages: English, German, French, Spanish, and Italian. (KDC500 doesn't support)

HID Initial Delay

In this menu, users may define the initial delay between 1 second to 10 seconds before data transmission in HID mode(KDC500 doesn't support)

HID Inter-character Delay

This option enables users to define the inter-character delay between 10msec to

100msec in HID mode(KDC500 doesn't support)

HID Control Character

This option helps users to map control characters to **ALT+Numlock or ^+Character_or** '|'. (KDC500 doesn't support)

BT Service Menu - KDC20/30/200/250/270/300/350/400/470/500

Power

Users may choose to turn Bluetooth Power on or off. Select between Enable and Disable.

Pairing Mode

This option Enables user to enter pairing mode by simply selecting this menu.

- The KDC enters into pairing mode so that the host *Bluetooth* device may search for it.
- The KDC may exit pairing mode if the user presses the SCAN button or if it fails to pair with the *Bluetooth* host device within 90 seconds.

Discovering

When users choose this menu, KDC searches for nearby *Bluetooth* devices. (KDC500 doesn't support)

Connecting To

This option enables the user to inquire to a registered *Bluetooth* device. (KDC500 doesn't support)

Disconnect

This option enables the user to disconnect KDC from the paired *Bluetooth* device. (KDC500 only)

HID Sync

KDC transmits all stored data to the host over HID profile if HID Sync option is enabled. (KDC500 doesn't support)

Auto Pairing

Enables or Disable the automatic Host Bluetooth type detection (SPP or MFi).(i Model only)

GPS Config Menu - KDC250G/350G

Barcode and GPS data format

The GPS enabled model adds the GPS coordinate after the barcode data, if GPS data is available. The GPS data starts with "<G|P/S]" and ends with ":". For example, the GPS enabled model would record barcode "1234567890", GPS coordinate "4354.45275,N;07925.81993,W" and Altitude data "208.7,M"as "1234567890<G|P/S]4354.45275,N;07925.81993,W ,208.7,M:" in the barcode data field.

GPS Menu

- GPS Power: Turning GPS Power on or off
 - Users may enable or disable the GPS Power.
 - The GPS module consumes extensive battery power. To conserve battery power, it is strongly recommended to turn off the GPS option when the GPS enabled model is not being used for an extended period of time.
 - It is also recommended to use the GPS Auto Power Off option in the SystemConfig menu. This option automatically turns off the GPS power if a barcode is not scanned for a period of time.

- Power Mode: The user may choose the type power consumption for the GPS function.
 - Users may extend the battery life of the GPS enabled model in Power Save mode.
 - Users should use normal mode if accurate GPS data is required.
 - ➤ The KDC350G will last about 15 hours in normal non-bypass data mode and 18 hours in power save non-bypass data mode.
 - ➤ The KDC350G will last about 7 hours in normal bypass data mode and 8 hours in power save bypass data mode.
- Bypass Data: Enabled or Disabled
 - This option should be disabled if users wish to record the GPS data with a scanned barcode data.

- > The KDC will bypass GPS data to the host if the bypass option is enabled.
- ➤ The KDC becomes a Bluetooth GPS receiver if this bypass data option is selected.
- Acquire Test: Select to acquire GPS signal.
- Reset GPS: Reset KDC GPS module.

GPS Hot Key

The KDC250G/350G provides the following hot keys for convenient GPS operations:

- GPS Acquire Test Cancellation
 - Users may cancel the GPS acquire test by pressing the SCAN button during the test.
- GPS Data Append Cancellation
 - Users may cancel GPS data append by pressing SCAN button if GPS data is not available immediately.
 - ➤ Users should hold the SCAN button for more than 3 seconds to cancel GPS data append.

USB Mode Menu- 100M/200M/250M/270/300M/350

Disabled

When this option is selected, KDC enters into USB Serial mode.

USB Disk

This option enables the user to change to USB Disk mode and barcode data that KDC scanned is stored into a file in flash disk when this option is selected.

KDC100M/200M/250M/300M/350 may be used as USB Disk with 4MB or 8MB space and KDC270 may be used as USB Disk with 8MB space.

USB HID

When this option is enabled, KDC enters into USB HID mode.

Disk Format

This option is available in USB Disk mode and Enables users to format KDC USB Disk.

Data Format

This option is available in USB Disk mode.

- Data
- Data Time
- Data Type
- Data Time Type



- Changing the "USB Mode" option will erase all data in KDC memory.

 Make sure to back up your data before changing this option.
- KTSync may not recognize the KDC if the KDC is in "USB DISK" mode or "USB HID" mode.

NFC Config Menu - KDC350N/411N/415N/421N/425N/500

NFC Power

- Turning NFC Power on or off
- Options: Enable/Disable

Data Format

Options: Data only/Packet data.(KDC500 doesn't support)

UID Only

- Enable or Disable UID Only menu
- The KDC only sends UID data to the host device when the KDC is in UID Only mode.
- (KDC500 doesn't support)

UHF Config Menu - KDC450U

UHF Power

- Turning UHF Module Power On or Off
- Options: Enable/Disable

Power On Time

Specify the power on time duration of UHF module.

Options: 500ms/1sec/1.5sec/2sec/2.5sec/3sec/3.5sec/4sec/4.5sec/5sec

Power Off Time

Specify the power off time duration of UHF module.

• Options: 500ms/1sec/1.5sec/2sec/2.5sec/3sec/3.5sec/4sec/4.5sec/5sec

Power Level

Specify the UHF module power level to determine the power strength of antenna. 7 means the most power strength.

• Options: 0/1/2/3/4/5/6/7

Data Format

Specify the data format of UHF data when it is transmitted from KDC to Host.

Options: Binary / Hexa Decimal

Smart Hopping

It enables KDC450U to find an optimized UHF channel and can be initiated by reading a special barcode.

WIFI Config Menu (KDC350F)

KDC350F WiFi model can send and receive data to/from host by using the following protocols.

- UDP
- TCP
- HTTP_GET
- HTTP_POST

In UDP/TCP mode, KDC350F will support full duplex mode, meaning is the KDC350F will be ready to get data from host all the time.

<u>Power</u>

• Turns the Wi-Fi Module Power ON and OFF.

AP

- Set AP SSID.
- Set AP Passcode.

Server

- Configure the following server information
 - IP Address
 - URL Address
 - Port Number
 - Protocol (UDP/TCP/HTTP-GET/HTTP-POST)
 - SSL(Security)
 - Server Page

Connect

Connect to AP and server.

Auto Connect

 Enable/Disable KDC to reconnect to AP & Server when it detects disconnection from AP and Server.

Send Stored

• Enable/Disable KDC to send stored data when sending a new read data.

CDMA Config Menu (KDC350WA CDMA)

KDC350WA CDMA model can send and receive data to/from host by using the following protocols if and only if the device is activated and the Verizon network is available.

- UDP
- TCP
- HTTP_GET
- HTTP POST

In UDP/TCP mode, KDC350WA will support full duplex mode, meaning is the KDC350WA will be ready to get data from host all the time.

Power

Turns the CDMA Module Power ON and OFF.

Provisioning

Activates the device under Verizon CDMA network.

Server

- Configure the following server information
 - IP Address
 - URL Address
 - Port Number
 - Protocol (UDP/TCP/HTTP-GET/HTTP-POST)
 - SSL(Security)
 - Server Page
 - Resp. Timeout

Connect

• Connect to Server.

Disconnect

Disconnect from Server.

Auto Connect

 Enable/Disable KDC to reconnect to Server when it detects disconnection from Server.

Send Stored

Enable/Disable KDC to send stored data when sending a new read data.

Information

 Displays CDMA module firmware version, the CDMA number, MEID, and IP address.

MSR Config Menu - KDC415/425/430/500

Power(KDC500 only)

- Turning MSR(Magnetic-Stripe Card Reader) on or off
- Options: Enabled/Disabled

Data Format(KDC415/425/430 only)

- Enables/Disables whether KDC415/425/430 sends with packet data or not.
- Options: Enabled/Disabled

Use Track

The user may select which track(1/2/3) data to read from the MS Card.

- Track 1: Enabled/Disabled
- Track 2 : Enabled/Disabled
- Track 3 : Enabled/Disabled

Null Check(KDC500 only)

The user may select which track(1/2/3) data should not be null. When this option is enabled for a Track and the read data is null, MS Card read fail occurs.

Track 1 : Enabled/Disabled

Track 2: Enabled/Disabled

Track 3: Enabled/Disabled

Beep On Error

When this option is enabled, KDC makes a beep sound when it fails to read a MS card.

Encrypt MSR Data(KDC415/425/430 only)

- If enabled, KDC415/425/430 sends MSR data with AES encrypted.
- Options: Enabled/Disabled

AES Key length(KDC415/425/430 only)

- Specify the AES key length.
- Options: 128bits/192bits/256bits

Card Type

The user may select which type of MS card to read.

- ISO
- OTHER 1
- AAMVA
- JIS(KDC500 only)

Track Separator(KDC415/425/430 only)

- Specify the separator which will be added between track data
- Options: None, Space, Comma, Semicolon, CR, LF, CR&LF, Tab

Attach SS/ES

When this option is enabled, KDC does not exclude the Start Sentinal(SS) and End Sentinal(ES) control characters in the track data when it sends the card data to the connected Host device.

Partial Data(KDC415/425/430 only)

Enables the user to transfer partial MSR data. The user defines the start position and

number of characters to be transferred.

- Start position
 - ◆ This option specifies the start position of data.
- No of char(s)
 - ◆ This option specifies the length of data. The '0' means all data.
- Action
 - ◆ This option selects if erasing or taking the specified data.

ICCR Config Menu – KDC500

<u>Power</u>

- Turning ICCR(IC Card Reader) on or off
- Options: Enable/Disable

IFD Number

This option shows the EMV IFD(Interface Device) number.

Config Number

The option shows the stored EMV Contact Configuration number.

SystemConfig Menu

Memory Size (3.0+ version only, KDC500 doesn't support)

The user may select how much memory to divide between normal data memory and application database memory.

- The KDC will erase all stored data upon changing the partition size.
- The user should enter the following key sequence to change the partition.
 - UP button + UP button + DOWN button + SCAN button

Memory Status

In this option, users may checks the number of stored barcodes and memory usage.

Reset Memory

In this option, users may reset KDC memory by erasing all stored barcodes, applications, and BT registry. KDC500 only erase all stored barcodes.

Auto Erase

If enabled, this feature erases stored barcodes on the KDC once the 'Buffer Full' condition is reached.

Sleep Timeout

This option Enables users to set the amount of time the KDC waits before going to *sleep* (when not being used).

Auto Power Off (KDC250G/350G)

- Bluetooth: Enabled/Disabled
- GPS: Enabled/Disabled
- Power Off Time:0(Never), 5, 10, 20, 30, 60, 120 minutes

Date/Time

In this option, users may set the date and time of the KDC, which may also be set using KTSync.(except KDC500)

Battery

This option shows the current status of battery power level.

Version

This option shows the KDC firmware version and serial number.

KDC500 displays only firmware version.

Serial Number(KDC500 only)

KDC500 displays the serial number

Button Lock

This option enables the user to lock or unlock the KDC scan and scroll buttons.(KDC500 doesn't support)

Beep Alert

- Beep Sound: Enables or disables KDC beep sound.
- Power On Beep: Enables or disables beep sound when KDC power is on.
- Beep On Connect: Enables or disables beep sound when KDC is connected to the host.
- Beep On Scan: Enables or disables beep sound when KDC is scanning.
- Beep On MS Card (KDC500 only): Enables or disables beep sound when KDC reads a MS Card.
- Beep On IC Card (KDC500 only): Enables or disables beep sound when KDC reads an EMV Contact Card.
- Beep On NFC Card (KDC500 only): Enables or disables beep sound when KDC reads an NFC Tag or EMV Contactless Card.

Beep Volume

This option enables the user to adjust the beep volume from High to Low.

MFi Mode (KDC20i/30i/200i/250i/270i/300i/350i/400i/470i)

This option Enables user to enable or disable MFi mode. MFi mode supports SPP and MFi Bluetooth profiles. Non-MFi mode supports SPP, SPP2.0, HID iOS and HID normal.

Vibrator(KDC20/30/270/350)

Enables, disables and configure KDC vibrator.

- There are two additional options for KDC vibrator configuration.
 - Scan Success → Specify the number of vibration when scan successfully.
 - o Scan Failure → Specify the number of vibration when scan failed.

Auto Exit

This option enables KDC to automatically exit KDC Menus.

Port Status

This option enables users to enable or disable KDC port messages.

Display Format

There are various selections of display format; Time & Battery, Type & Time, Type & Battery, Memory Status, Barcode only and Graphics.

The Graphics option enables to display 'O' for scan success and 'X' for scan failure.

Menu Barcode

This option enables users to enable or disable Honeywell special barcodes (KDC300/350C/500C only).

Scrolling

This option enables users to enable or disable display scrolling for a barcode with more than 40 characters.(KDC500 doesn't support)

Brightness

This option enables users to adjust brightness of display.

Keypad(KDC350/500)

This option enables users to enter data by using keypad.

Language(Version 3.0+, KDC500)

This option enables users to select KDC display languages.

The supported languages are as following.

- None Languages is not supported. Default is an English.
- US(English)
- French
- Italian
- Spanish
- Korean
- Japanese

KDC500 only supports US(English), Korean and Japanese.

Factory Default

By selecting this option, users may reset KDC options to factory default settings.

Key Mgmt Menu- KDC500

- Stored Keys: Displays all the encryption keys stored in the KDC500.
- Inject Keys: In this menu, the user can inject the necessary encryption keys via Key Loader device.

Sensitive Menu - KDC500

KDC500 Sensitive menu has sub menus which can impact on the KDC500 security services. KDC500 requires two passwords for the Sensitive menu group access in order to ensure only authorized people can utilize the sensitive services. The default passwords are 0000000 and 11111111.

Note

 For PCI PTS compliance, the default passwords should be changed prior to use. Without the default passwords change, KDC500 declines all the payment related service requests; such as MS Card Read, IC Card Insertion, PIN Entry, etc.

Set Date/Time

In this menu, the user can set the date and time of the KDC500.

Set Self-Test

The user can set the time for the Self-Test in this menu. In PCI PTS, it requires to perform the Self-Test(Firmware and stored key authentication) at least once in 24 hours.

Set Passwords

In this menu, the user can change the current passwords to access the Sensitive Menu.

Key Mgmt

- Stored Keys: Displays all the encryption keys stored in the KDC500.
- Inject Keys: In this menu, the user can inject the necessary encryption keys via Key Loader device.
- Clear Keys: In this menu, the user can clear all the encryption keys stored in the KDC500 except the Firmware Update Authentication key which is loaded during the manufacturing process.

Card Encrypt

This menu allows user to choose the encryption algorithm for the sensitive card data from the list below.

- Plaintext
- T-DES
- AES

3.4 LED Status

LED Color	Status
Green	 Successful Reading USB is connected and battery is fully charged. MFi mode in pairing mode.
Orange	 Low battery USB is connected and battery is charging HID mode is in pairing mode. (except KDC500)
Red	No readingSPP mode is in pairing mode.

Table 5 - Explanation of LEDs

3.5 Empty Battery

KDC100/200/250/270/300/350

The KDC will display the message *Empty Battery Connect USB* when the battery is empty. Please charge the KDC IMMEDIATELY to prevent any interruptions while it is collecting data.

KDC20/30/400/470

- Under 30% Orange LED flickers at 1-second-intervals for 5 seconds every minute.
- Under 20% Orange LED flickers at 1-second-intervals for 10 seconds every minute.
- Under 10% Red LED flickers in 1- second-interval for 10 seconds every minute, and the user will hear a beeping sound.

KDC500

- Under 10% (Low) Displays the message Low Battery Please Charge. KDC500
 is still functional, but charge the KDC500 IMMEDIATELY to prevent any
 interruptions while it is collecting data.
- Under 5% (Empty) Displays the message *Empty Battery Please Charge*.
 KDC500 is not functional any longer.

3.6 Buffer Full

The KDC will display the message *Buffer Full* when there is no more space in the flash memory or the number of collected barcodes reaches the maximum number of stored barcode. To prevent the loss of data, you should synchronize the data then reset the memory when this message is displayed.

The 4MB/8MB version KDC reaches the Buffer Full condition in the following situations:

- 0.5MB Partition Collected data size reaches 0.5MB or collected number is 25,600
- 1MB Partition Collected data size reaches 1MB or collected number is 51,200
- 2MB Partition Collected data size reaches 2MB or collected number is 102.400
- 3MB Partition Collected data size reaches 3MB or collected number is 153,600
- 4MB Partition Collected data size reaches 4MB or collected number is 204,800
- 5MB Partition Collected data size reaches 5MB or collected number is 256,000
- 6MB Partition Collected data size reaches 6MB or collected number is 307,200
- 7MB Partition Collected data size reaches 7MB or collected number is 358,400
- 8MB Partition Collected data size reaches 8MB or collected number is 409,600

3.7 Reset Feature (100/200/250/300) or Power-on/off (KDC20/30/270/350/400/470/500)

The Reset feature enables the user to restart the KDC100/200/250/300 if necessary, without losing any stored barcode data or option settings. To reset the KDC, follow the below steps.

- 1. Press the DOWN and SCAN buttons simultaneously for 5 seconds.
- 2. When the LEDs illuminate orange, release the buttons.
- 3. The KDC initial screen, **KoamTac Data Collector KDC**, displays when reset is complete.

Note

The KDC stores collected data into flash memory and will not lose data nor the KDC settings during the reset process.

If you are using the KDC20/30/270/350/470, you may turn the power on and off by pressing the DOWN and SCAN button simultaneously for 5 seconds. When the LED light is green, you may release the buttons and the power will be on. When you turn off the KDC20/30/270/350/470, you will hear a beep sound after pressing the DOWN and SCAN buttons simultaneously.

If you are using the KDC400 (except KDC470) you may turn the power on and off by sliding the power switch.

If you are using the KDC500, you can turn the power on and off by pressing the left and right SCAN buttons simultaneously for 5 seconds. When the display shows KOAMTAC logo, you may release the buttons and the power will be on. When you turn off the KDC500, you will see the display shows blank after pressing the left and right SCAN buttons simultaneously.

3.8 Replace Battery

Each KDC comes with a rechargeable, Lithium-polymer (KDC20/100/200) or Lithiumion (KDC30/250/300/270/350/400/470/500) battery. The battery may be recharged from any USB port or KDC charging cradle, and may be recharged about 300 times before it needs to be replaced. KOAMTAC recommends replacing the battery annually, as a declining battery will cause noticeable performance degradation in the KDC. Replacement batteries may be purchased from a KDC reseller. Batteries should be disposed of properly as according to the WEEE regulation. The steps for replacing a battery are as follows.

- 1. Disassemble the KDC back cover by unscrewing the middle screw.
- 2. Remove the old battery and replace with a new battery.
- 3. Reassemble the back cover.

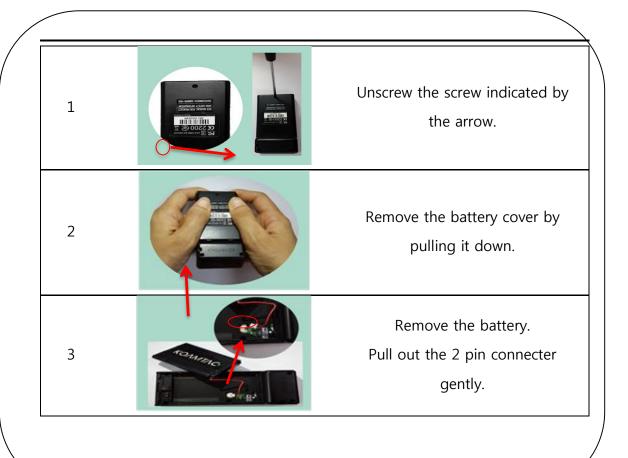


Figure 15 - Replacing a Battery

4. Bluetooth -

KDC20/30/200/250/270/300/350/400/470/500

The KDC20/30/250/270/300/350/400/470 supports HID (Human Interface Device) normal, HID iOS, SPP (Serial Port Profile) and SPP2.0 profiles. The KDC500 supports SPP only. The KDC20i/30i/250i/270i/300i/350i/400i/470i/500i supports MFi (Made for iPhone/iPad/iPod touch) profiles too. They are compatible with the following Bluetooth stacks:

- BlueSoleil
- Broadcom (Widcomm)
- Microsoft Windows XP, Vista, 7, 8, 10, and Mobile 5.0+
- Toshiba



For PCI PTS compliance, KDC500 can support only SPP and MFi profiles.

The KDC200/250/270/300/350/500's *Bluetooth* options may be configured by using the KDC menu, PC KTSync and special barcodes. The KDC20/30/400/470's Bluetooth options may be configured by using the PC KTSync and special barcodes.

4.1 Bluetooth Config

Connect Device

The KDC supports both Serial Port Profile (SPP) and Human Interface Device Profile (HID). The user may choose amongst SPP2.0, SPP (2.1), HID normal, or HID iOS profiles to communicate with the host device. An additional MFi (Made for iPhone/iPad/iPod touch) option is available for KDC20i/30i/200i/250i/270i/300i/350i/400i/470i/500i models when MFi mode is enabled.(SystemConfig Menu). KDC500i doesn't have MFi mode option and supports MFi by default.

If the **BT Toggle** option(KDC500 doesn't support) in **BT Config** is enabled, the user may connect and disconnect the Bluetooth connection with the host device by pressing the UP and DOWN buttons. It normally takes 3 seconds to connect and 1 second to disconnect. This is a very useful feature for iPhone and iPad applications.

The user may also enable and disable the iPhone and iPad soft keyboard instantly by using this BT Toggle option in HID mode.

The UP button shows the Bluetooth connection status and the DOWN button shows the time when this option is disabled.



The user should first un-pair the KDC from the Bluetooth host to change the Connect Device setting on the scanner to a different Bluetooth profile.

Auto Connect

This feature enables the KDC to automatically connect to the host device when the KDC is powered on. KDC500 doesn't support Auto Connect.

IMPORTANT: Until the host device and the KDC have been fully tested, it is strongly recommended that this feature be set to 'Disabled', because a host device that does not support this feature could cause problems, such as power loss or upload delays.



The KDC automatically tries to connect to the host 10 times within the duration of two minutes when *Bluetooth* power is ON, *Bluetooth* is disconnected, Auto Connect is enabled, and system Sleep Timeout is set to 5 seconds.

Auto Reconnect

This feature enables the KDC to automatically connect to the host device when the KDC is disconnected from a host.



The KDC tries to connect automatically to the host 10 times within the duration of two minutes if Bluetooth is disconnected.

Auto Power On

The Auto Power On option Enables the KDC to automatically power on Bluetooth when the SCAN button is pressed. The default setting is Disabled. KDC500 doesn't support this option.



Users should press the scan button for the duration defined in the **BT Config** Power-on time option. The host program may have to open the COM port again in order to be reconnected with the KDC.

PWR ON Time

The PWR On Time option works in conjunction with the Auto Power On option. The default value is Disabled. If the KDC Bluetooth power is off, you may turn on the

Bluetooth power by pressing the SCAN button for the PWR On Time option value. KDC500 doesn't support this option.

Auto Power Off

The Auto Power Off option works in conjunction with the PWR Off Time option. This option Enables the KDC to power off Bluetooth automatically when the KDC is NOT CONNECTED to the host for the time duration specified in the PWR Off Time option. KDC500 doesn't support this option.

The default for this option is disabled. It is strongly recommended to keep it enabled to maximize the operation time of the KDC. If Auto Power Off is Enabled, Bluetooth may be manually powered off before the specified time in the PWR off time option.

It is recommended to enable 'Auto Power On' option if this option is enabled. User doesn't need to turn on the Bluetooth power manually with this configuration.

Beep Warning

The KDC beeps to warn user to power off the Bluetooth if this option is enabled with five short beeps when the following condition meets..

- 1. Bluetooth power is ON
- 2. KDC is disconnected
- 3. Auto Power Off is DISABLED

KDC500 doesn't support this option.

PWR OFF Time

The PWR Off Time option works in conjunction with the Auto Power Off option. If Auto Power Off is Enabled, the KDC powers off Bluetooth when the duration of time specified in the PWR Off Time option is met and the KDC is NOT CONNECTED to the host. The time setting for this option is from one (1) minute to 30 minutes. The default is five (5) minutes. KDC500 doesn't support this option.

PowerOFF Msq

The KDC sends a Bluetooth power off message "BTOFF" to the host when KDC is connected from host if this option is enabled. KDC500 doesn't support this option.

MAC Address

The user may verify the KDC Bluetooth MAC Address.

FW Version

The user may verify the KDC Bluetooth firmware version in this menu.

Wakeup Nulls

The KDC sends three leading Null bytes to wake up the *Bluetooth* connected device. This feature may be disabled if the *Bluetooth* connected device does not require additional bytes to wake up. KDC500 doesn't support this option.

Autolock Time

The iPhone/iPad/iPod touch loses incoming Bluetooth data while in sleep mode. To prevent data loss, you may set the KDC Autolock time to the same Autolock time of your iPhone/iPad/iPod touch, to use the automatic wakeup feature in HID mode. KDC500 doesn't support this option.

If the Autolock time is set to more than one minute and the barcode scan interval is larger than the auto-lock time, there will be a one second delay of barcode transmission. The auto-lock time would be set as 0, 1, 2, 3, 4, 5, 10, 15 minutes. 0 means the iPhone/iPad/iPod touch never enters sleep mode. This option may not need from iOS 5.x.

HID Keyboard

The user may select an international keyboard – English, German, French, Spanish, or Italian. It is also required to set the host keyboard with the same keyboard as selected in this menu. KDC500 doesn't support this option.

HID Initial and Inter-Character Delay

Certain applications may not process HID input fast enough and may lose some characters during transmission. Users should increase initial and inter-character delay to prevent data loss during HID transmission. KDC500 doesn't support this option.

- HID Initial Delay: Defines the initial delay between 1 sec to 10 sec before data transmission in HID mode.
- HID Inter-character Delay: Defines the inter-character delay between 10msec to 100msec in HID mode.

Control Character Transmission in HID mode

Control characters between ASCII values 0x00 and 0x1F may be replaced by the ALT+Numpad or ^+Character or replaced with '|'. KDC500 doesn't support this option.

- Disabled → Transmit the original control character.
- Alt+Numpad → Transmit Alt+ ASCII value from Numpad.
- ^+Character → Control characters would be substituted as shown in the following table.
- Replacement to | → Control characters would be substituted as "|".

Control Char	Transmit Chars	Control Char	Transmit Chars	Control Char	Transmit Chars	Control Char	Transmit Chars
0x01	^A	0x0B	^K	0x14	^T	0x1D	^]
0x02	^B	0x0C	^L	0x15	^U	0x1E	^^
0x03	^C	0x0E	^N	0x16	^\	0x1F	^_
0x04	^D	0x0F	^O	0x17	^W		
0x05	^E	0x10	ΛP	0x18	^X		
0x06	^F	0x11	^Q	0x19	ΛΥ		
0x07	^G	0x12	^R	0x1A	^Z		
0x09	^	0x13	^S	0x1C	^\		

Function Key Transmission in HID mode

The user may send F1 to F12 function keys by scanning special barcodes in HID mode. KDC500 doesn't support this option.

Disconnect/Reconnect/BT(HID) Toggle

The user may disconnect or reconnect the Bluetooth connection, and toggle the soft keyboard using side buttons. KDC500 doesn't support this option.

Bluetooth Profile	UP Key	DOWN Key (DisconnectBTN disabled)	DOWN Key (DisconnectBTN enabled)
SPP	Reconnect	Does nothing	Releases BT connection
HID iOS	Reconnect	Soft Keyboard Toggle if pressing less than 3sec	Soft Keyboard Toggle if pressing less than 3sec,

			Releases BT
			connection
MFi	Reconnect	Does nothing	Releases BT
			connection
SPP 2.0	Reconnect	Does nothing	Releases BT
			connection
HID	Reconnect	Does nothing	Releases BT
normal			connection

Note

Some SPP host doesn't support Reconnection from KDC.

4.2 Bluetooth Service

Power

The POWER option enables the user to Enable or Disable the Bluetooth functionality of the KDC. To use Bluetooth, this option must be set to enable.

However, like all devices enabled for Bluetooth, the KDC will constantly search to connect with a Bluetooth host when set to enable. Constant searching for Bluetooth devices increases power consumption.

Unless you are using Bluetooth with your KDC, this option should be set to disable.

IMPORTANT: To prevent unnecessary power problems, it is strongly recommended that the POWER option be set to disable if the KDC is idle for an extended period of time.

Pairing

Before you are able to use Bluetooth, the KDC must be paired with the host device. This pairing process needs to be completed only once with each host device. After pairing, the host device will always recognize the KDC as a Bluetooth device, unless the Bluetooth configuration is modified. If it is modified, you may need to pair the devices again.

IMPORTANT: The host device must be configured for Bluetooth before it may be paired to the KDC.



KDC with Bluetooth Spec2.1+EDR does not prompt Pin code entry menu.

To pair the KDC20/30/200/250/270/300/350/400/470 with the host, follow these instructions:

- 1. Select Pairing from the Bluetooth menu. The message "Pairing started..." will be displayed.
- 2. The "Pairing Done" message will display when the Bluetooth connection is successfully established. The connection must be established before the pairing timeout of 90 seconds.
- If "Pairing failed..." message displays, the Bluetooth connection with the host device failed. If the message "Connected" displays, a Bluetooth connection is established.
- It is possible for the message "Pairing failed..." to display on the KDC while the host device displays the "Connected" message. If this occurs, a

Bluetooth connection has been established.

For KDC500 paring with the host, Numeric Comparions pairing method is required for PCI PTS complicance. See the section 2.1 Bluetooth Paring for the details.

Discovering

KDC200/250/270/300/350 starts to search for neighboring *Bluetooth* devices if the Discovering menu is executed. It will take about 30 seconds to finish searching and to list available neighboring *Bluetooth* devices. Another option is to enter the corresponding Bluetooth MAC address in the KTSync Bluetooth menu, instead of waiting for the KDC to search for neighborhood *Bluetooth* devices. KDC20/30/400/470 only supports via KTSync configuration. KDC500 doesn't support this feature.

Connect To

This option lets you easily connect the KDC to *Bluetooth* devices that have been either previously registered in KTSync under the File Menu or discovered/connected from the KDC *Bluetooth* Service menu. KDC20/30/400/470 only supports via KTSync configuration. KDC500 doesn't support this feature.



There could be an interoperability issue depending on the corresponding device Bluetooth stack. The master Bluetooth device may request that you to follow the master Bluetooth device's security procedures, if the KDC tries to connect to the master Bluetooth device.

HID Sync

The user may synchronize stored barcode data over HID using the HID Sync option. The KDC will start to transmit all stored barcode data upon execution of the HID Sync option. KDC500 doesn't support this feature.

Tips

Pair and connect KDC20i/30i/200i/250i/270i/300i/350i/400i/470i and iOS4.0+ in HID iOS mode



• Users have to disable the MFi option in System > MFi menu and change the Bluetooth profile to HID-iOS to use HID Bluetooth profiles.

- Users have to RESET the iPhone/iPad/iPod touch in order to change HID to MFi mode, and vice versa, after removing a previous KDC connection.
- KDC with Bluetooth Spec2.1+EDR does not prompt Pin code entry menu.
- KDC with Bluetooth Spec. 2.1+EDR stack does not require 4 or 6 digits PIN digits entry

Follow the below steps in order to pair and connect KDC models for MFi and iOS4.0+ in HID mode.

- 1. Go to the MFi menu of KDC SystemConfig Menu
- 2. Change MFi option to Disabled
- 3. Change ConnectDevice to HID iOS mode
- 4. Remove previous KDC connection and RESET the device
- 5. Change KDC to Pairing mode
- 6. The iPhone/iPad/iPod touch will find a new device as *Keyboard*
- 7. Click *Keyboard* device

iOS Soft Keyboard Toggling using BT Toggle Option.

Users need to select the option to use this feature in **BT Config>BT Toggle**. Press the DOWN button to toggle a soft keyboard.

Auto Pairing

For SPP and MFi mode, user used to select host profile before pairing. However, user doesn't need to select host device profile if this option is enabled. KDC automatically detects if host device is a SPP or MFi mode. This option is supported from KDC Bluetooth firmware version 2.2.O.

5. Synchronization

When barcode data is collected, it must be uploaded to your application. KTSync, which is bundled with the KDC, is a software that Enables barcode data to be uploaded to any PC, PDA, or smartphone running Android 2.1+, Apple iOS3.1.3+, Blackberry, Mac and Windows XP/Vista/7/8/10/Mobile 5.0+. It has three major functions. (Windows XP/Vista/7/8/10 version supports all of the following features. Tablet, PDA and Smartphone versions support only limited features of PC KTSync.)

- Synchronization Provides data upload functionality to your applications.
- **Keyboard Emulator** Enables scanned data to be uploaded directly into your application as if the data were being entered manually with a keyboard.
- Application Generation Enables users to create custom applications or download predefined applications such as Master-Slave, Pick/Bin, DB Lookup and Inventory.

Additional functions include:

- Prefix and Suffix add-ons to eliminate manual data entry.
- Symbology and Scan Option selections.
- Barcode Wedging options.
- KDC Menu configurations.

5.1 KTSync Menu

KTSync was installed on your PC during the initial installation process. Before data may be uploaded to any host device, KTSync must be launched on the host and configured to recognize the KDC. The following screen displays when KTSync is launched:

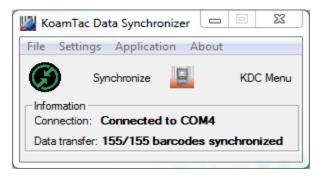


Figure 16 - KTSync® Synchronizer Initial
Screen

File Menu

- Connect: This option displays the Serial port (COM#) assigned to KDC. You
 may also use this option to manually assign the Serial port. The Serial port
 assigned to KDC may be found under Windows Device Manager. The port
 assignment is used by KTSync for synchronizing data from the KDC to the host.
- Synchronize: This option manually tells the KDC to synchronize data with the host. While data is being synchronized, KTSync menu options are unavailable

Note Please do not use your computer during data synchronization.

- Bluetooth: This option is not available on KDC100/KDC500. Users may register a MAC address to be directly connected by KDC20/30/250/270/300/350/400/470.
- Configuration: This option Enables users to set different KDCs with same settings by exporting and importing settings from one KDC to the other.
- Exit: This option ends the KTSync program. You must re-run KTSync before you may synchronize data on the KDC.

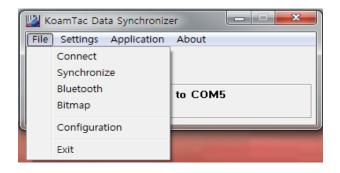


Figure 17 - File Menu

Settings Menu

- Synchronization: Select Synchronize options.
- Barcode & KDC: Select Barcode and KDC options.
- Others: Select Auto Connection and/or Synchronization Confirmation options.



Figure 18 – Setting Menu

Application Menu(KDC500 doesn't support Application)

- Generation: Create user application or download predefined application.
- DB Lookup: Enables users to download DB into KDC and display barcode description field.
- Master/Slave: The user defines a master barcode for comparison with one or more slave barcodes.
- Pick/BIN: The user defines Pick ID and the barcode symbology for comparison with a defined Bin.
- Inventory: Users may count inventories. Inventory description will be displayed if inventory DB is downloaded into the KDC.

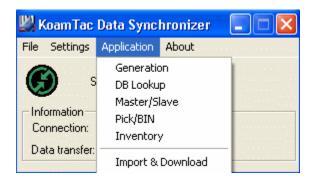


Figure 19 - Application Menu

About Menu - KTSync- Version Information



Figure 20 - About Menu

5.2 File Menu

Connect to KDC

The KDC automatically connects to a COM port when connected to the PC's USB port. If needed, the user may manually assign the KDC COM port by using the KTSync Connection submenu under the File menu.



Figure 21 - COM Port Selection for KDC

• The COM port assignment is found in the Windows Device Manager.

- KTSync will not connect to the KDC if it is in the KDC Menus. You must EXIT from the KDC Menus.
- If KTSync fails to connect automatically to the KDC, please follow these steps:
 - 1. Exit KTSync.
 - 2. Check to make sure that you have connected the KDC to a USB port on your PC.
 - 3. Make sure that the user is using the cable provided with the KDC.
 - 4. Check to make sure that the KDC is not in KDC Mode Menu.
 - 5. Restart KTSync.



You may manually assign the COM port using KTSync Connect option under the File menu.

Synchronize

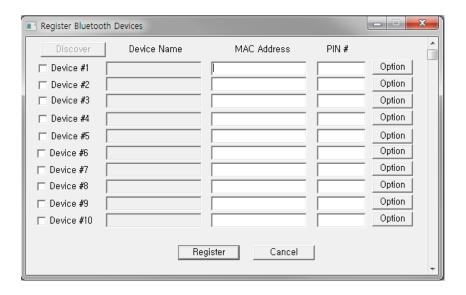
Located under the File Menu, this option enables the user to manually synchronize data on KDC with the host. This option is similar to clicking on the Synchronize button in the KoamTac Data Synchronizer box.

Erase KDC Memory

Erase all stored data in the KDC internal memory.

Bluetooth

This menu option enables the user to register up to ten Bluetooth devices, including their MAC address, PIN #, and optional prefixes or suffixes. This option enables direct Bluetooth connection between KDC and other Bluetooth devices, such as a *Bluetooth* printer. The user should choose a *Bluetooth* device to be connected in "Connect to" menu in KDC *Bluetooth* Service menu.(KDC500 doesn't support this feature)



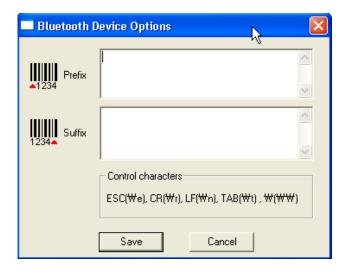


Figure 22 - Bluetooth Device

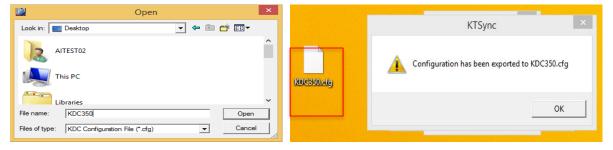
Configuration

This menu is useful for the users who need to configure different KDCs with same settings. In this menu, you may export settings from a KDC to your computer and import it to other KDCs.

When you select **Configuration** in File menu, you will need to choose either **Export** or **Import**. First, select Export. You name the settings file, press **Open**, and it is exported to your computer. Second, connect a different KDC to your computer and import the settings file to the KDC by selecting **Import** in the Configuration menu. Once configuration has been finished, KDC will restart.



Export



Import

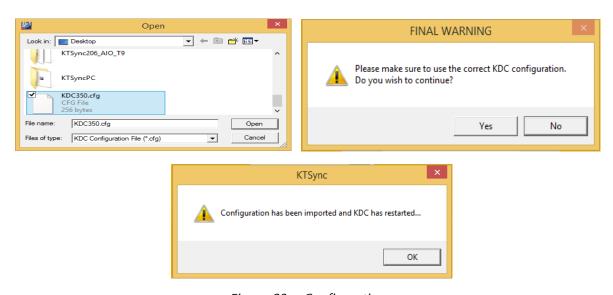


Figure 23 – Configuration

Synchronization Settings

KTSyncprovides several synchronization options for synchronizing data from your KDC to host devices.

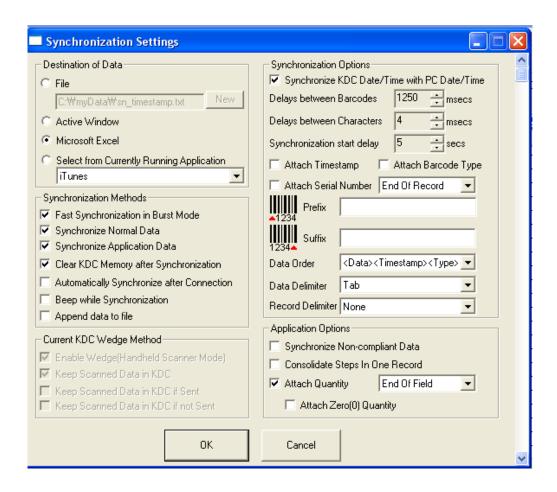


Figure 24 - KTSync Synchronization Settings

Destination of Data

When barcode data is uploaded to the host device, you must assign a destination for the data. Destination of Data options include:(This option is applied to only Windows XP/Vista/7/8/10)

- File This option means data will be saved in the assigned filename. You may
 select a different target directory by clicking the New icon. The default directory is
 C:\MyData\sn_timestamp.txt. If this directory is not created, you will be prompted to
 create it before data may be uploaded to a file.
- Active Window This option means scanned barcode data is sent directly to the active program running on your device as if the data is being entered directly from a keyboard.
- Microsoft Excel This option means barcode data is being imported directly into Microsoft's Excel. Various parameters may be set when uploading data to Excel.
- Select from Current Running Application This option enables the user to select a currently running application for data synchronization.



- Data synchronization begins immediately if "Automatically Synchronize after Connection" is selected. If not selected, data synchronization is started manually by the user.
- Users SHOULD NOT operate the PC during the synchronization process. It may interrupt the process causing unreliable results.

Synchronization Methods

Fast Synchronization in Burst Mode

The KDC may synchronize data to a host device in Burst mode or Sequential mode. Burst mode provides the fastest synchronization process but could result in error in a poor *Bluetooth* environment. Fast synchronization in Burst mode is only recommended with USB connection.

Synchronize Normal Data

If Synchronize Normal Data option is selected, the KDC will synchronize only Normal Data in KDC memory. If the user wants all data in KDC memory synchronized, the user should select Synchronize Normal Data and Synchronize Application Data.

Synchronize Application Data

If Synchronize Application Data option is selected, the KDC will synchronize only Application Data in KDC memory. If the user want all data in KDC memory synchronized, the user should select Synchronize Normal Data and Synchronize Application Data.

Clear KDC Memory after Synchronization

If this option is selected, the stored barcode data is cleared from the KDC memory after synchronization.

 It is important to clear the KDC memory periodically to prevent a Buffer Full message. Buffer Full prevents the KDC from storing additional data. Stored barcode data may also be deleted using the Reset Memory feature on the KDC.

Automatically Synchronize after Connection

This option lets the user automatically synchronize collected data immediately to the computer when the KDC is connected to the host.

- IMPORTANT: Before selecting this option, remember to configure all options properly.
- Data synchronization may be done manually by clicking the synchronize icon if this option is not selected.

Beep while Synchronization

The user may enable or disable the beep tone during the synchronization process. If this option is selected, a beep is sounded every time barcode data is synchronized. The KDC beeps 5 times when the synchronization process is complete.

Append Data to File

If the user has specified a file name and Append data to File option is enabled, KTSync will append data to the existing file instead of creating a new file.

Current KDC Wedge Method

The KDC may be configured in one of five wedge/store modes:

- Wedge Only Scanned data is transmitted to the host. The KDC does not store scanned data.
- Wedge & Store Scanned data is stored in the KDC and transmitted to the host.
- Store Only Scanned data is stored in the KDC but NOT transmitted to the host.
- Save if Sent Scanned data is stored in the KDC ONLY if transmission to the host is successful.
- Save if Not Sent Scanned data is stored in the KDC ONLY if transmission to the host is unsuccessful.

Enable Wedge (Handheld Scanner Mode)

This option will be checked if Wedge Only or Wedge & Store option is selected.

Keep Scan Data in KDC

This option will be checked if Store Only or Wedge & Store option is selected.

Synchronization Options

Synchronize KDC Time with PC Time when Connected

This option enables the user to synchronize the KDC date and time with the host date and time. Synchronization of date and time occurs after the data is uploaded to the host device.

Delays

The user may set transmission delays between barcodes and characters during the synchronization process. It is important to set proper delays to prevent errors during the transmission of collected barcodes. Some Windows applications, such as Excel, require longer delay times.

Attachments

Timestamp, Barcode Type, and Serial Number may be attached to the scanned barcode by selecting these options. The Serial Number of the KDC may be attached to the Start or End of Record.

Prefix and Suffix

- Enter the characters the user wants to attach to the front (Prefix) or back (Suffix) of the barcode in the Prefix and Suffix fields.
- The character set is any combination of ASCII characters including alphanumeric, line feed ("\n"), and carriage return ("\r").

Order and Delimiter

- Select Order of Data Type, Data, and Timestamp
- Select the Delimiter between Data Tab, Space, Comma, and Semicolon
- Select the Delimiter between Records None, LF, CR, Tab, and <LF & CR>

Application Options

Synchronize Non-Compliant Data

The KDC will synchronize both compliant and non-compliant data (filtered data) if Synchronize Non-Compliant Data option is Enabled.

Consolidate Steps in One Record

KTSync will consolidate the data collected in Step 1 with the data collected in Step 2 and/or Step 3. When Consolidate Steps in One Record is enabled, data will be consolidated into one record instead of individual data records for each step. If this option is enabled, non-complete records, i.e. three steps were defined but data was only collected for two steps, will be discarded.

Attach Quantity

If this option is enabled, quantity will be attached to the left or right of the data.

5.3 Barcode & KDC Settings

KTSync enables the user to configure the KDC Scan Options and Barcode Settings. The configuration options for the KDC using KTSync are similar to the Set Barcodes, Code Options, Data Editing and Scan Options on the KDC Menu. Please refer to <a href="https://doi.org/10.1007/jtms.2007/jt

Note

The user must configure barcode and scan options properly for optimal KDC performance.

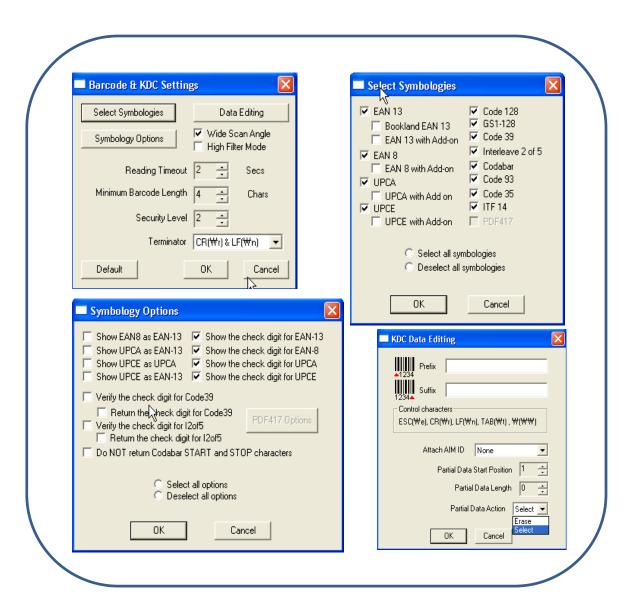


Figure 25 - Barcode & KDC Settings, Symbologies, Data Editing and Scan Options

Select Symbologies and Symbology Options

The process for scanning and reading barcodes is delicate and complicated. Although your KDC is equipped with a high performance scan engine, if configured incorrectly it may not perform at its peak performance level. To ensure its high performance, the KDC comes configured to optimize its scan engine technology. Unless you clearly understand the impact of your changes to the KDC settings, please do not change factory default settings. Please refer to Appendix A for details. Pressing the Default icon will reset all symbology related options to factory default settings.

Data Editing Option

<u>Prefix</u> - Enables the user to add a prefix to scanned data that may then be stored in KDC or wedged to the host. The Prefix format must be defined in the data format menu of KTSync. The maximum length for a Prefix is 11 characters.



This Prefix option is different from the Prefix option in KTSync that appends the prefix to data during synchronization.

<u>Suffix</u> - Enables the user to add a suffix to scanned data, which may then be stored in KDC or wedged to the host. The Suffix must be defined in the data format menu of KTSync. The maximum length for a Suffix is 11 characters.



This Suffix option is different from the Suffix option in KTSync that appends the suffix to data during synchronization.

<u>AIM ID</u> - Enables the user to add AIM ID to scanned data, which may then be stored in KDC or wedged to the host. AIM ID must be defined in data format menu of KTSync.

AIM ID is either added to the end of Prefix or Suffix.

<u>Partial Data</u>: Enables the user to display and store partial data. The user defines the start position and number of characters to be displayed and stored.

- Select the x characters from y position
 - Set Partial Data Start Position to y, Partial Data Length to x, Partial Data

Action to Select.

- \triangleright Partial Data Length $oldsymbol{0}$ selects all characters from y position.
- Erase the x characters from y position
 - Set Partial Data Start Position to *y*, Partial Data Length to *x*, Partial Data Action to Erase.
 - \triangleright Partial Data Length $oldsymbol{0}$ erases all characters from y position.

5.4 Other Settings

Other options under the Settings menu allow the user to select four additional settings:

- Ask Confirmation before Trying Auto Connection prevents unintentional launch of KTSync.
- Ask Confirmation before Starting Auto Synchronization prevents unintentional synchronization of data.
- Minimize KTSync on Start will minimize KTSync and send it to the tray upon execution.
- Keep Checking Bluetooth Connection Enables reconnection of KDC once
 Bluetooth signal is detected. This feature is useful when moving to or from
 Bluetooth host device frequently. KTSync will automatically reconnect
 Bluetooth connection when the user enter an effective Bluetooth network
 range. (Not Available on KDC100)

To select any of these settings, click on the box to the left of the setting. A check mark $(\sqrt{})$ will display next to the setting to indicate that it is selected.

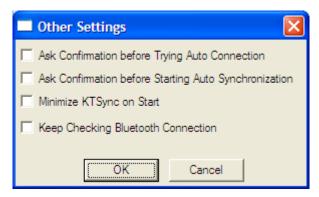


Figure 26 - KTSync® Confirmation Settings

KDC Menu in KTSync

After connecting KDC to PC with a USB cable, run KTSync on your PC and you will see **KDC Menu** on the right side of KTSync window. Click **KDC Menu**, and you may configure your KDC in KDC Menu window, as shown below.

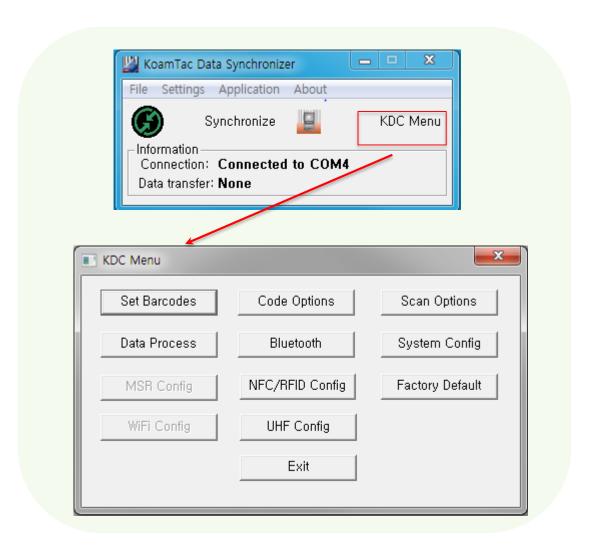


Figure 27 - KDC Menu in KTSync

5.5 Mobile pKTSync

pKTSync provides limited functionality for Pocket PC 2003 and Mobile 5.0+ users.

- 1. Synchronization Provides data upload functionality to your applications.
- 2. Keyboard Emulator Enables scanned data to be uploaded directly into your application as if the data were being entered manually on a keyboard.

For detailed explanations of these functions, please refer to earlier sections of this chapter.

WARNING: The user must assign the correct COM port to KDC before using pKTSync. Please refer to the mobile device manual for details on Bluetooth pairing and COM port assignment methods.

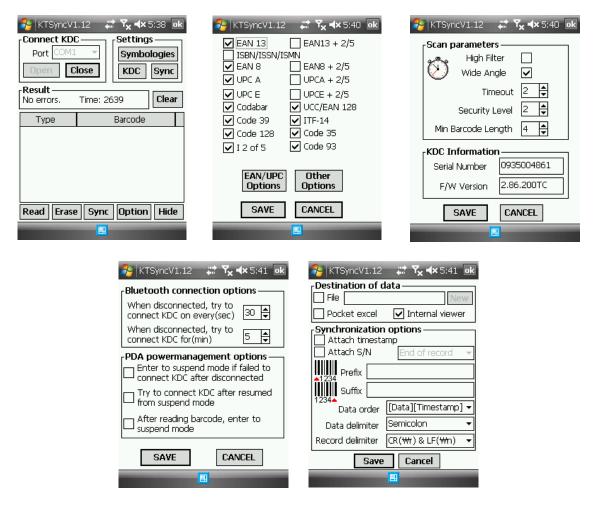


Figure 28 - Mobile pKTSync

5.6 Android aKTSync

The KTSync provides limited functionality of PC aKTSync to Android users.



- aKTSync only supports Android devices with 2.1+ OS version and that are compatible with BluetoothChat application.
- KDC with Bluetooth Spec2.1+EDR doesn't prompt Pin code entry menu.

KDC and Android Pairing

1. Pairing

- Select SPP Bluetooth profile from the KDC ConnectDevice submenu in BT Config menu.
- Search KDCxxx from Android and pair the two devices.
- If SPP2.0 is selected, KDCxxx PIN code is "0000".

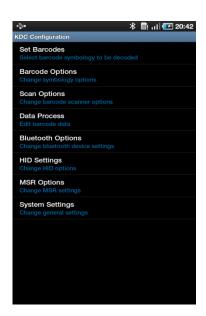
2. Connection

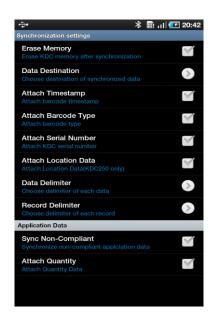
- Click Connect icon in aKTSync.
- Android will list paired Bluetooth devices and the user should select the target KDC.
- 3. Synchronization: Provides data upload functionality to the applications.
- 4. Settings: The user may change various Synchronization options in the settings menu.
- 5. Wedging: The user may wedge barcode data to any Android application. Press the home key and launch the target application.

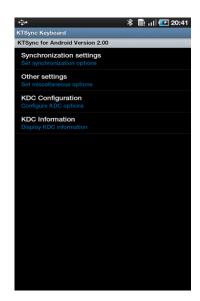
Launch KTSync

- 1. Download and install aKTSync from the Android Play Store.
- 2. Change KDC Bluetooth ConnectDevice option to SPP.
- 3. Execute Android *Bluetooth* device scan option and KDC *Bluetooth* pairing option.
 - A. Execute KDC Bluetooth Pairing option.
 - B. Launch Settings on the Android device.

- C. Select Wireless and Networks.
- D. Click on Bluetooth Settings.
- E. Click on Scan devices.
- F. The Android device will display the KDC model and 6 digits of the serial number.
- 4. Press the KDC list entry, enter "0000" PIN code, and press **OK**.
- 5. When paired, the Android device will display "Paired but not connected".
- 6. Launch aKTSync program.
 - A. Press menu key and select the Connect option on the top left.
 - B. From the list of paired devices, choose the KDC to use.
 - C. On the top menu bar of aKTSync, you will see a message "connecting", and then "connected".
 - D. On the KDC display, you will see "Pairing Succeeded!!!" and then "Bluetooth Connected".
 - E. Select **Settings** option on the bottom left to change KTSync setting.







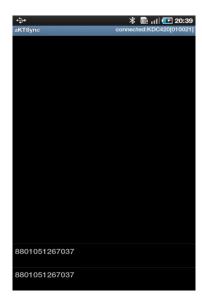


Figure 29 - Android aKTSync

Keyboard Wedge

- 1. Launch **Settings** on the Android device.
- 2. Select Language and Keyboard (or Input method).
- 3. Select KTSync Keyboard.
- 4. Launch the application and touch the input box to focus.
- 5. The barcode will be wedged to the input box upon scanning a barcode.

5.7 iPad/iPhone/iPod Touch KTSync

The KTSync for iPad/iPhone/iPod touch provides limited functionality of PC KTSync for iPad, iPhone and iPod touch users.

- 1. The KDC supports **SPP** and **MFi** Bluetooth profiles.
- 2. The iPhone/iPad/iPod touch should use **MFi** Bluetooth profiles. **MFi** is the default profile of KDCi models.
- 3. Download the KTSync program from the App Store.
- 4. Enable the iPhone/iPad/iPod touch Bluetooth power from the **Setting > General** > **Bluetooth menu**
 - Users have to disable MFi option in System > MFi menu to use HID Bluetooth profiles.

Note

• Users have to RESET the iPhone/iPad/iPod touch to change "HID to MFi mode" or "vice versa" after removing previous KDC connection.

KDC with Bluetooth Spec2.1+EDR does not prompt Pin code entry menu.

KDC20i/30i/200i/250i/270i/270i/350i/400i/470i/500i connection using MFi mode

- 1. Download and install KTSync from the Apple App Store. http://itunes.apple.com/us/app/ktsync/id372916602?mt=8
- 2. Pair KDC and iOS Device
- 3. Launch KTSync and configure Settings.

iKTSync Settings

iKTSync provides following Settings menu.

- Synchronization The user may configure Synchronization options, such as destination of data, data formation and delimiters.
- Other settings Users may configure KDC350 GPS module, disconnection options and soft trigger button.



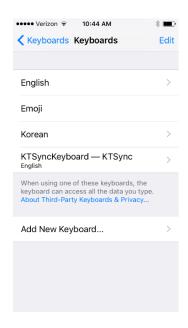
Figure 30 - iPad/iPhone/iPod touch KTSync

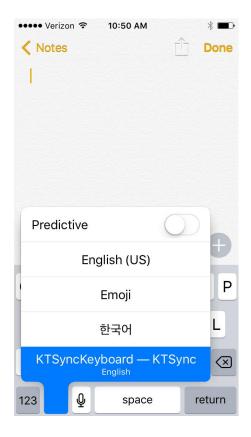
How to Connect and Reconnect MFi Mode using UP Keys

- 1. The user needs to select the option to use this feature in the BT Config > BT Toggle.
- 2. Press the UP button to connect or reconnect to the iPhone/iPad/iPod touch.

How to use Keyboard Wedge with iKTSync

Navigate to the iPhone/iPad/iPod Settings > General > Keyboard > Keyboards > Add New Keyboard... > Select the KTSync keyboard to be added.





2. Select the KTSync Keyboard > Allow Full Access.



3. Open up the application you want to scan into, and tap on the screen so the onscreen keyboard appears. Tap and hold on the globe icon located to the left of the spacebar. Select the KTSync Keyboard & begin scanning!

Note: The KDC must be connected to KTSync & the KTSync keyboard must be selected in order for this to work.

5.8 Blackberry bKTSync

The bKTSync provides limited functionality of PC KTSync for Blackberry users.

KDC with Bluetooth Spec2.1+EDR does not prompt Pin code entry menu.

Note

- 1. Download and install bKTSync from the Blackberry App World.

 http://appworld.blackberry.com/webstore/search/ktsync?lang=en-
- 2. Go to Blackberry Options > Applications menu and enable Input Simulation option.
- 3. Change KDC Bluetooth profile in **ConnectDevice** option to **SPP**.
- 4. Execute Blackberry *Bluetooth* manager and KDC *Bluetooth* pairing option:
 - A. Execute KDC Bluetooth Pairing option.
 - B. Launch the Blackberry Bluetooth manager and select "Search". The KDC model and 6 digits of the serial number will be displayed.
 - C. Highlight the KDC and press the Enter or Select Key.
 - D. Enter "0000" PIN code and press the Enter or Select Key.
 - E. The Blackberry will display "Pairing with KDC" and then "complete."
 - F. Close the Blackberry Bluetooth manager.
- 5. Go to Downloads folder and execute KTSync.
- 6. The user may configure KDC options in KDC settings and Symbologies Settings menu.
- 7. Go to KTSync Synchronization Settings and select Destination. To send collected barcode data as an email attachment, choose **Email Attachment** as destination and enter in the email address, subject, and body message that the user want to send. The user may enter multiple email addresses using the semicolon (;) separator.
- 8. To scan barcodes into any application (like email, notes, worksheet or web browser), press the menu key and select **Running in the background** option. bKTSync will maintain the connection and place the scanned barcode data wherever the cursor is flashing.





KDC Settings	Symbologies Settings
Select Laser Angle Wide ▼	Enable/Disable Symbols
Set Scan Timeout 2 seconds ▼	✓EAN13 ✓EAN8
Set Security Level	☑ UPCA ☑ UPCE
Set Minimum Barcode Length	 ✓ Code39 ✓ ITF14 ✓ Code128 ✓ Interleave 2 of 5 ✓ Codabar ✓ GS1-128 ✓ Code93
Synchronization Settings	Synchronization Settings
Select Destination Email Attachment	Attach Barcode Type No *
Attach Barcode Type No *	Attach Timestamp
Attach Timestamp No *	Attach Serial Number Do not attach •
Attach Serial Number Do not attach *	Select Data Delimiter Tab
Select Data Delimiter Tab	Select Record Delimiter CR&LF v

Figure 31 - Blackberry bKTSync

CR&LF •

Select Record Delimiter

Email Address: info@koamtac.com

Email Cubiact. KDC DD Vtouse tact amail

Email Address: info@koamtac.com

Email Body Message: Hi...

Email Subject: KDC BB Ktsync test email

5.9 KTSync for Mac OS X

The KTSync Mac OS X version provides limited functionality of PC Windows KTSync for Mac OS X users.

Note

- KTSync for Mac OS X version supports both Bluetooth SPP profile and USB connection. The user should pair KDC with Mac before using the KTSync program via Bluetooth connection.
- Mac OS X version KTSync is built as a X86 binary application and works with the Intel-based Mac. It is verified on Mac PC running Mac OS X 10.6.5 and later versions.

KTSync Mac OS X version supports the following features:

- ✓ Keyboard wedge function to a file, internal viewer, active window, and user application.
- ✓ Synchronization to a file, internal viewer, active window, and user application.
- ✓ Automatic connection and disconnection on USB port.

The user will see the following initial KTSync screen upon launching the program.

KTSync will connect automatically if KDC is plugged in a USB port or if KDC is paired.



Connect Button



The user may connect the Mac with the KDC that is paired or plugged into the USB port by clicking the Connect button. The following screen will be displayed when this button is pressed, and KTSync will start to

connect to the selected KDC.

KDC300002001 KDC200020478

Disconnect Button



KTSync changes Connect button to Disconnect button once the KDC is connected. The user may disconnect the KDC manually by selecting connected KDC on the following screen.



Synchronize Button



The user may start the synchronization process by pressing the Synchronize button. The user may select the destination of barcode data in the settings menu. There are 4 selectable destinations: File, Internal viewer, Active window, and User application.

Clear Button

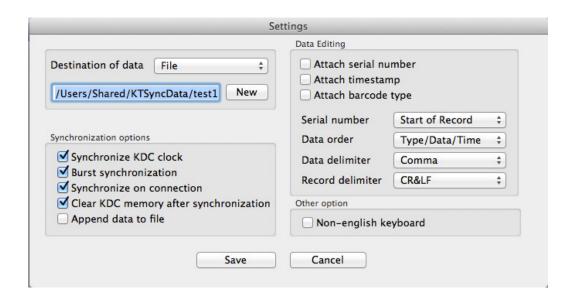


The user may press this button to clear the KTSync internal viewer.

Settings Button

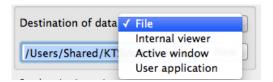


The user may configure synchronization options on the following screen by pressing the Settings button.



Destination of Data

The KTSync program wedges or downloads barcode data to one of the following four destinations:



- File: The KTSync makes a file name based on 3.11 if file name is specified as an "sn_timestamp.txt". The default directory is /Users/Shared/KTSyncData directory. The user may define another directory or another filename by clicking the "New" button. The maximum file path length is 128 characters.
- Internal Viewer: The KTSync displays barcode data in KTSync internal text viewer.
- Active Window: The KTSync sends barcode data to current active window if Active window option is selected.
- User Application: The user may define the target application by pressing the "New" button. The maximum application name path length is 128 characters.

Synchronization Options

Synchronize KDC Clock

KTSync will set the KDC's date and time with Mac PC date and time when the KDC is connected to Mac, if this option is enabled.

Burst Synchronization

KTSync will synchronize barcode data from KDC in burst mode. Otherwise, KTSync would synchronize barcode data one by one. This option is enabled by default and maynot be disabled.

Synchronization on Connection

KTSync will automatically synchronize barcode data from the KDC when the KDC is connected, if this option is enabled.

Clear KDC Memory After Synchronization

KTSync clears barcode data stored in the KDC's memory once synchronization has finished, if this option is enabled.

Append Data to File

KTSync appends synchronized data to existing file specified on destination. If file does not exist then KTSync creates a new file.

Data Edition

Attach Serial Number

The KTSync will add a KDC serial number to barcode data. This option is enabled by default and maynot be disabled.

Attach Time Stamp

The KTSync would add timestamp to barcode data. This option is enabled by default and maynot be disabled.

Attached Barcode Type

The KTSync would add barcode type to barcode data. This option is enabled by default and maynot be disabled.

Serial Number

When **Attach serial number** is enabled, this option determines when to attach serial number. "Start of record" means to attach at the front of record and "End of record" means to attach to the end of record.

Data Order

This option specifies the order of data (Barcode Type, Barcode Data and Timestamp) in the record.

Data Delimiter

This option is used to select a character to be added between barcode data, serial number and timestamp and/or barcode type. User may select one of the following: None, Tab, Space, Comma and Semicolon as the data delimiter. The Comma is selected as the data delimiter by default.

Record Delimiter

This option is used to select a character to be added at the end of the barcode record. The user may select one of **None**, **CR**, **LF**, **TAB**, and **CR&LF** as the record delimiter. The **CR&LF** is selected as the record delimiter by default.

Other Options

Non-English Keyboard

This option is used when the barcode data has non-English characters and a non-English keyboard.

6. Application Generation



KDC FW2.85 does not support the Application Generation feature. Users should upgrade FW2.85 to FW2.86 or FW3.0+ to use Application Generation feature.

When you select the Application menu from the KTSync, the user may choose from the following five Applications: Generation, DB Lookup, Master/Slave, Pick/BIN, and Inventory. Users may also download saved programs using the Import & Download option.

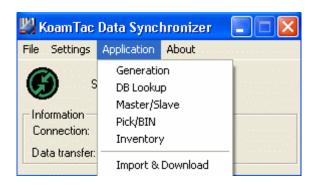


Figure 32 - Application Menu

When the Application tool is selected, the KDC will beep once to acknowledge a connection between the KDC and the Application tool. The following KTSync warning window will pop up if the downloaded application in KDC does not match with KTSync application tool.



Figure 33 - Application Warning Window

Note

KDC will wedge barcode data to the host in application mode if "wedge and store always" option in data process menu is selected and KDC firmware version is higher than 2.86.xxx.G or 3.0+.

6.1 Application Generation

KDC Application Generation tool is a robust feature that enables the user to create custom applications for collecting and managing barcode data. To create a custom application, select the Generation submenu from the Application menu in KTSync*.

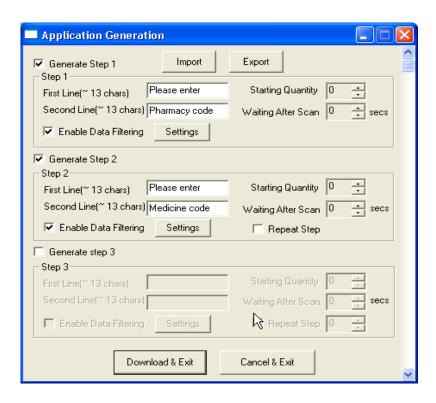


Figure 34 - Application Generation Menu

Generate Application

<u>Generate step 1</u> - To generate a custom application, click on the Generate Step 1 box. This enables the user to define the user prompts and data collection settings for

Note

Step 1 of the custom application. Below is a description of each field. These prompts are the same when selecting Generate step 2 and Generate step 3.

The custom application may include only Step 1.

First line

Enter up to 13 characters; these will display on the first line of the KDC.

Second line

Enter up to 13 characters; these will display on the second line of the KDC.

Starting quantity

Enter a predefined start quantity for each scanned barcode. The start quantity may be defined from 1 to 128. Use the up or down side key to choose the desired quantity.

Waiting to scan

Enter the number of seconds the KDC pauses before the user prompts display. During this timeout period, the user may modify the quantity. If this field is set to zero, the quantity field may not be adjusted. This field may be defined from "-1" to "30" seconds. "-1" second enables infinite waiting of user quantity input.

• Enable data filter

Check this box to enable the data filtering option. Data filtering enables the user to predefine different aspects of the barcode data the user are collecting.

Data Filter Settings

When the user select Enable data filtering, the user must click on the Settings button to select the Data filter setting. The options for the Data filter settings are the same for Step 2, and Step 3.

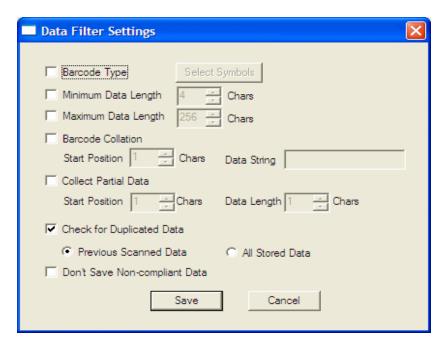


Figure 35 - Data Filter Settings

Barcode Type

This field enables the user to select the type of barcodes the KDC will collect. When the user clicks on the box, Select Symbols is enabled. A listing of the symbologies supported by the KDC will display. To select a barcode symbology, click on the box associated with the symbology.

• Minimum Data Length

This field enables the user to define the minimum length of the scanned barcode. The length may be between 2 and 36 (1D models), 2 and 48 (2D models) characters. If the user scans a barcode that has a length of less than the defined length, the barcode data is not collected.

Note

The default KDC minimum barcode length defined in scan option is 4. Therefore, users should change KDC minimum barcode length to 2 or 3 to define minimum data length to 2 or 3.

• Maximum Data Length

This field enables the user to define the maximum length of a scanned barcode. The defined length may be between 2 and 256 characters. If the user scans a barcode that has a length is greater than the defined length, the barcode data is not collected.

Barcode Collation

This option enables the user to define a data string that the KDC will use to compare scanned barcodes.

- Starting Position This is the start position of the scanned barcode data to be compared with the defined data string.
- Data String This is the defined value to be compared with scanned barcode data. This value may be up to 32 characters.

• Collect Partial Data

This option enables the user to define partial barcode data to be collected when a barcode is scanned. Only the partial data will be stored in the KDC.

- Start position This is the starting position that the KDC will use when collecting scanned barcode data.
- Data Length This is the length of partial data to be stored by the KDC.

Check for Duplicated Data

This option enables the user to prevent the collection of duplicate data.

Previous Scanned Data – This option enables the user to compare the scanned barcode with the previously scanned barcode and treat it as non-compliant data if the user scanned the same barcode twice. All Stored Data – This option enables the user to compare the scanned barcode with stored barcode data and treat it as non-compliant data if the same barcode already scanned and stored.

Do not Save Non-Compliant Data

This field tells the KDC how to manage non-compliant data based on the defined data filtering fields. If this field is enabled, non-compliant data is NOT stored in the KDC. If this option is not enabled, non-compliant data is stored.

Generate step 2

To include another step in the data collection process, click the box, Generate step 2. This step has the same options as Step 1. In this step, the user have the option of repeating step 2 by clicking the box, Repeat Step.

Note

This field is disabled when the application has three steps.

Generate step 3

To include a third step, click the box, Generate step 3. This step has the same options as step 1 and 2. In this step, the user has the option to repeat steps 2 or 3.

Application Download and Execution

Before running your application, it must be downloaded to KDC.

- 1. Click the "Download" icon from Application Generation Window.
- 2. Change KDC from Normal mode to Application mode.
 - A. Press two side buttons simultaneously to enter menu mode.
 - B. Select KDC mode and enter scan button.
 - C. Change to Application mode.
 - D. Save and exit from menu mode.
- 3. KDC will run in normal mode if you do not change to Application mode after downloading the application.
- 4. If you want to delete the downloaded application in your KDC, select App. Data in Reset Memory after you go to System Config in KDC Menu.

6.2 Predefined Applications

KTSync provides four Predefined Applications: Master/Slave, Pick/Bin, DB Lookup and Inventory.

Master/Slave

Master/Slave predefined application enables you to define a *master* barcode for comparison with one or more *slave* barcodes. The predefined application may be run once or continuously. Within either setting, you may define a substring for comparison of master and slave barcodes.

Master/Slave Onetime

Define one *master* barcode and compare it with one *slave* barcode.

Master/Slave Continuous

Define one *master* barcode and compare it with multiple *slave* barcodes.

Collation Options

Works in either Onetime or Continuous Mode to compare a substring within the master and slave barcodes.

- Master start position Select the numeric position of start substring character in Pick barcode, 1 to 255.
- Slave start position Select the numeric position of start substring character in Pick barcode, 1 to 255.
- Comparing Barcode Length Number of characters to be compared, 0 to 255.
 0 means all characters.



Figure 36 - Master/Slave Application Settings

Pick/Bin

The Pick/Bin predefined application is a special version of the Master/Slave predefined application. The Pick/Bin application enables you to define the Pick ID and the barcode symbology for comparison with a defined Bin.

Number of ID and Symbology

Define Pick ID characters from 1 to 32 and the barcode symbology.

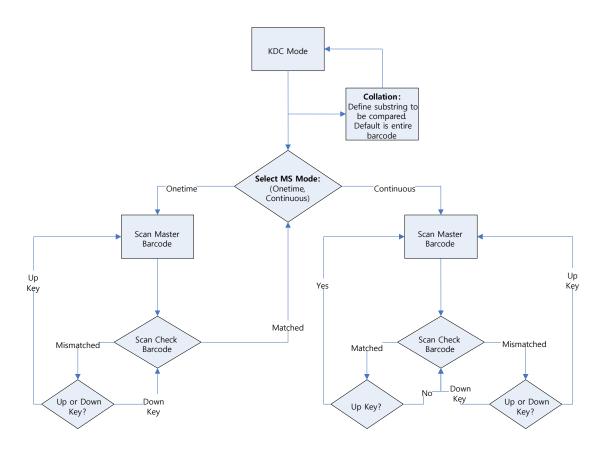


Figure 37 - Master/Slave Application Flow Chart

Pick Start Position and Symbology

Select numeric position of start substring character in Pick barcode from 1 to 255 and the barcode symbology.

• Bin Start Position and Symbology

Select the numeric position of start substring character in Bin barcode from 1 to 255 and the barcode symbology.

• Comparing Barcode Length

Select the number of characters to be compared from 0 to 255. 0 means all characters.

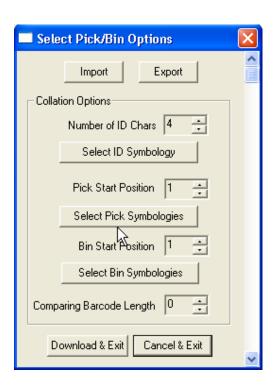


Figure 38 - Pick/BIN Application Menu

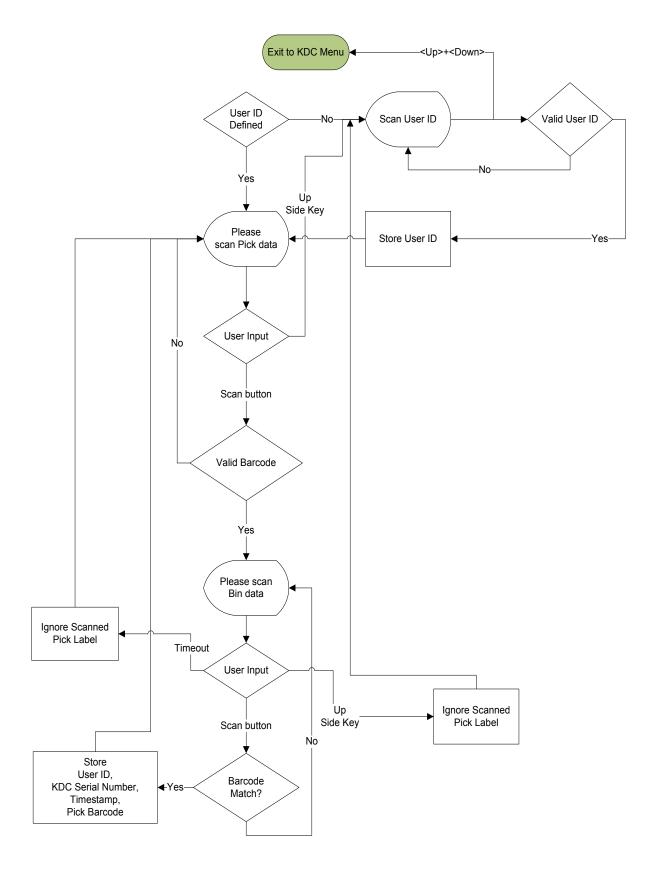


Figure 39 - Pick/BIN Application Flow Chart

DB Lookup Application

The DB Lookup application enables the user to download a database to the KDC that may then be utilized for advanced AUTO-ID applications, such as displaying additional data after scanning a barcode. For example, using our DB Lookup application, you may download a product database including information such as description, price, and stock quantity. With the advanced data functionality built-in to the KDC, you may easily display product price, description, and stock level after the product's barcode is scanned.

Functionality of DB Lookup Application (based on the firmware version v2.86 and v3.0+)

- The database size may not exceed 800 records (v2.86) / 61,440 records (v3.0+).
- The maximum record size is 128 bytes.
- Each record may have up to 4 fields, including the barcode, which is the primary key.
- The maximum field size is 39 characters.
- Quantities may be entered by pressing the UP or DOWN scroll buttons after DB fields are displayed.
- Quantity may be 1 to 128.
- The user may create a database using Microsoft Excel.
 - 1. Excel file must be saved as .txt.
 - 2. Records should be separated by CR/LF.
 - 3. Fields should be separated by TAB.
 - 4. Database should end with CR/LF.
 - 5. Last 4 bytes of database should be CR/LF/CR/LF.

DB Lookup Fields and Settings (based on the firmware version v2.86 and v3.0+)

- **Download DB to KDC -** Downloads user created database to KDC.
- Starting Quantity Enter predefined start quantity for each scanned barcode.
 The start quantity may be defined from 1 to 128 and may be adjusted using UP or DOWN buttons.
- Barcode Field Select the position of barcode field in database from 1 to 4.
- Stored Barcode Start Position Select the numeric position of start substring character of barcode in database from 1 to 39.
- Scanned Barcode Start Position Select the numeric position of start substring character of scanned barcode from 1 to 39.
- Comparing Barcode Length Number of characters to be compared from 0 to 255 where 0 is all characters.
- Display on KDC Define database fields to be displayed on KDC. KDC may display one to three fields. KDC will display one field in two or three lines, if same field is specified in line entering option.

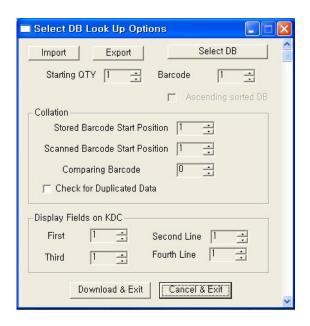


Figure 40 - DB Lookup Application Menu

Inventory Application

The Inventory application enables the user to count inventories by scanning inventory barcodes. This application will increase inventory item count if the same item is scanned. Users may also download an inventory database to the KDC. If inventory DB is downloaded, KDC will display inventory description.

Functionality of Inventory Application (based on the firmware version v2.86 and v3.0+)

- The inventory may not exceed 800 items (v2.86) / 61,440 items (v3.0+).
- The maximum record size is 128 bytes.
- Each record may have up to 4 fields, including the barcode, which is the primary key.
- The maximum field size is 39 characters.
- Quantities 1 to 32786 may be entered by pressing the UP or DOWN buttons after inventory is scanned.
- Starting Quantity may be 1 to 128.
- Min/Max. Data Length is between 2 to 256 (1D models) or 4 to 256 (2D models).
- Barcode Collation Start Position is between 1 to 256.
- The length of Collation Data String is between 1 to 30.
- Collect Partial Data Start Position is between 1 to 256.
- Collect Partial Data Length is between 1 to 256.
- Users may create an inventory database using Microsoft Excel.
 - > Excel file must be saved as .txt.
 - > Click **User Inventory DB** option to display inventory description.
 - Click Do not add non-existing item into DB if one do not wish to add new items into inventory DB.
 - > The number of Barcode Data Field is between 1 to 4.
 - ➤ The position of Display Filed is between 1 to 4.

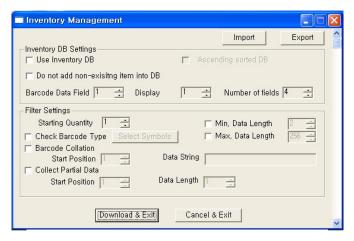


Figure 41 – Inventory Application

7. Troubleshooting

ISSUE	CAUSE	SOLUTION
KDC not working	Dead battery	Charge battery by connecting
		KDC to your PC using the
		included cable
	Hardware	Contact distributor for technical
	failure	support
KDC not	Bad battery	Replace battery – Contact Local
charging		Distributor
	Poor USB port	USB port doesn't supply proper
		current to KDC
		- Charge KDC using a different
		USB port on your PC
Failed reading	Damaged	Scan a different barcode
	barcode	
	Out of scan	Move the scanner closer to
	range	barcode
		 Move scanner farther from the
		barcode
	Incorrect	Change the angle of scanner to
	angle	barcode
	Symbology	Contact KOAMTAC -
	not	www.KOAMTAC.com for
	supported	possibility of custom symbology
		support
	Scan options	Check scan option settings
	Dirty scan	Clean scan window
	window	
	Damaged	Replace scan window
	scan	
	window	
KDC reads	Dirty scan	Clean scan window
wrong	window	
barcode	Damaged	Replace scan window
	scan	
	window	

	Poor quality barcode	 Select only necessary barcodes Increase minimum barcode length Increase security level
Can't communicate with PC, PDA, or smartphone	USB cable is not connected properly Software is	 Check cable connection between KDC and host device Reload the software
	not working properly COM configuratio	Check COM port configurations
LED blinks yellow	n Low battery power	 Charge the battery by connecting KDC to PC. KDC will lose collected data if the battery is empty.
Buffer Full Message	Full Memory	Clear the Memory using Synchronization program
Empty Battery Message	Empty battery	Connect USB immediately.Synchronize the collected data and charge KDC
Abnormal KTSync Operation on DELL PC	Quickset Utility	 Disable Quickset Utility before using KTSync. Dell Quickset utility interrupts normal KTSync operation
	WSED Utility	 Disable WSED Wireless enable/disable utility delete the folder C:\Program Files\WSED, which contains a file WSED.exe, with the same icon as in the taskbar Delete the registry entry KEY_LOCAL_MACHINE \SOFTWARE\Microsoft\Windows \CurrentVersion\Run\WSED

Touch Keypad not	Foreign	Clear any foreign object
working	Object	(including your finger) placed on
(KDC500)	detected	the touch keypad and reset KDC.
	Hardware	Contact distributor for technical
	failure	support
Compromise	Security	Contact distributor for technical
Message	Attack	support
displayed	detected	
(KDC500)		

Table 6 - Troubleshooting Techniques

8. Warranty

LIMITED WARRANTY AND DISCLAIMERS

BY OPENING THE PACKAGE OF THIS PRODUCT YOU AGREE TO BECOME BOUND BY THE LIABILITY AND WARRANTY CONDITIONS AS DESCRIBED BELOW.

UNDER ALL CIRCUMSTANCES, THIS MANUAL SHOULD BE READ ATTENTIVELY, BEFORE INSTALLING AND OR USING THE PRODUCT.

Serial Number

A serial number appears on the KDC label. This official registration number is strictly related to the device purchased. Make sure that the serial number appearing on your KDC is not removed. Removing the serial number will affect the warranty conditions and liability disadvantageously, so please maintain the label with serial number on the KDC. Units with the serial number label removed should not be operated.

Warranty/Warranty Period/Liability

KOAMTAC, Inc. ("KOAMTAC") manufactures its hardware products in accordance with industry-standard practices. Unless otherwise agreed in a contract, KDC is warranted for a period of one year after purchase, covering defects in material and workmanship except rechargeable battery. KOAMTAC will repair or, at its opinion, replace products that prove to be defective in material or workmanship under proper use during the warranty period. KOAMTAC will not be liable in cases (i) in which the unit has been repaired or altered unless done or approved by KOAMTAC, (ii) in which the unit has not been maintained in accordance with any operating or handling instructions supplied by KOAMTAC, (iii) in which the unit has been subjected to unusual physical or electrical stress, misuse, abuse, power shortage, negligence or accident or (iv) in which the unit has been used other than in accordance with the product operating and handling instructions. Preventive maintenance is the responsibility of the customer and is not covered under this warranty. Under no circumstance will KOAMTAC be liable for any direct, indirect, consequential or incidental damages arising out of use or inability to use either the hardware or software, even if KOAMTAC has been informed about the possibility of such damages.

Warranty Coverage and Procedure

During the warranty period, KOAMTAC will repair or replace defective products returned to KOAMTAC warehouse. International customers should contact the local KOAMTAC office or support center. If warranty service is required, KOAMTAC will issue a Return Material Authorization Number. Products must be shipped in the original or comparable package,

shipping and insurance charges prepaid. KOAMTAC will ship the repaired or replacement product freight and insurance prepaid. Customer accepts full responsibility for its software and data including the appropriate backup thereof. Repair or replacement of a product during warranty will not extend the original warranty term.

CAUTION: Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

9. Contact Information

KOMMTAC

CORPORATE HEADQUARTERS

116 Village Blvd., Suite 305

Princeton, NJ 08540, USA

Phone: 609-256-4700, FAX: 609-228-4373

Email: support@koamtac.com

For more information, visit our website - www.koamtac.com

10. Appendix A –Barcode & Scan Options

The process for scanning and reading barcodes is delicate and complicated. Although the KDC is equipped with a high performance scan engine, if configured incorrectly, it may not perform at its peak performance level. To ensure its high performance, the KDC comes configured to optimize its scan engine technology. Unless you clearly understand the impact of your changes to the KDC settings, please do not change factory default settings.

10.1 Symbologies

KOAMTAC's KDC products support most major barcode symbologies including 1D, 2D, Postal, and OCR-Fonts. Below is the list of the barcode symbologies supported by the KDC with respect to each model's particular area of support. To ensure superior scan performance, remember to select only the required symbologies.

	KDC20/100/200/250/270L/270D/3	KDC30/270C/300/350C/420/421/
	50L/410/411/415/470L/470D/500L	425/450/470C/500C
1D	EAN13, EAN8, UPCA, UPCE,	Codabar, Code11, Code32,
Barcodes	Bookland EAN, EAN13 with Addon,	Code39, Code128, EAN8, EAN13,
	EAN8 with Add-on, UPCA with Add-	GS1-128, I2of5, MSI, Plessey,
	on, UPCE with Add-on, Interleave 2	PosiCode, GS1 DATABAR OMNI,
	of 5, ITF14, Code128, Codabar, GS1-	GS1 Limited, GS1 Expanded,
	128, Code39, Code93, & Code35	S2of5IA, S2of5ID, TLC39, Telepen,
		Trioptic, UPCA, & UPCE
25	A / / A	A-tagCada A-tagDuras
2D	N/A	AztecCode, AztecRunes,
Barcodes		CodablockF,Code 16K, Code49,
		DataMatrix, MaxiCode, MicroPDF,
		PDF417, & QRCode and
		HanXin Code
Postal	N/A	AusPost, MayadaPost, ChinaPost,
Barcodes		JapanPost, KoreaPost, KixPost,
		Planet Code, Postnet (US), &
		UKPost

OCR	N/A	OCR-A, OCR-B, OCRUSCurrency,
Fonts		OCRMICRE13B, & OCRSEMIFONT

Table 7 - Symbologies Supported by KDC

Bookland EAN vs.

EAN-13

Bookland EAN, which includes ISBN, ISSN, and ISMN, is supported by the KDC. This group of symbologies is essentially an EAN-13 barcode with fixed prefixes; 977 for ISSN, 978 for ISBN, and 979 for ISMN. If EAN-13 and Bookland EAN are both enabled, Bookland EAN takes precedence. Bookland EAN does not have any options. The Bookland EAN barcode does not contain any groupings – that is, there are no hyphens or separators. Thus, the ISBN 957-630-239-0 is transmitted as 9576302390.

Add-on Symbologies

By default, the 2 or 5 digit add-on symbols with a UPCE, UPCA, EAN-8, and EAN-13 barcode are neither decoded nor transmitted. Transmission for these specific symbologies is enabled by setting the appropriate *withAddon* options. There are 4 *withAddon* options, one for each symbology:

- UPCEwithAddon
- UPCAwithAddon
- EAN8withAddon
- EAN13withAddon

The decoding of add-on symbols are defined by the following table, which explains the process for EAN-13 symbols.

Mode	Behavior	Value	of flags
Auto- discrimination	If add-on symbol is present, then it is also decoded; otherwise, only the EAN-13 symbol is decoded.	true	true
With add-on	Only EAN-13 barcodes with 2 or 5 add- on symbols are decoded.	false	true

Without add-	The add-on symbol is ignored.	true	false
on			

The add-on symbol is appended to the EAN-13 barcode. The process is similar for UPCE, UPCA, and EAN-8 barcodes. Note that all the UPCE, UPCA, EAN-8, and EAN-13 formatting and conversion options are in effect. The following table should help explain the effect of various options for EAN-8 barcode 12345670 + 12.

Table 8 - Add-on for EAN-13 Symbology

Barcode	EAN8_as_EAN13	EAN8_Retur nCheckDigit	EAN13_ReturnC heckDigit
1234567012	False	True	N/A
123456712		False	
0000012345671	True	N/A	False
0000012345670 12			True

Table 9 - Add-on for EAN-8 Symbology

The add-on symbol contains neither a check digit nor a terminating guard band. Every effort has been made to reduce the decoding error; however, it is likely to decode a partial scan of a 5-digit add-on symbol as a 2-digit add-on symbol. It is strongly recommended that the minimum security level be set at 2 while decoding add-on symbols. Since the decoder takes a conservative view on the add-on symbols, it is likely that the add-on symbol will be missed in the auto-discrimination mode. Auto-discrimination mode should then be avoided.

10.2 Code Options

(KDC20/100/200/250/270L/270D/410/411/415/470L/470D)

The KDC supports the following barcode options:

- Transmission of start and stop characters
- Reverse direction
- Symbology conversion
- Verification of optional check character
- Transmission of check digit
- Transmission of Start and Stop Characters

For Codabar symbols, the user may choose not to transmit the start and stop symbols, the NOTIS Editing. By default, they are transmitted. Setting the field **CodaBar_NoStartStopChars** to true disables the transmission.

Reverse Direction

This option may be selected if direction oriented symbologies are designated, such as Code35.

Symbology Conversion

By default the EAN-8, UPCE, and UPCA symbols are transmitted in their native format. However, it is possible to show them in a different format. The user may choose to display UPCE symbols as either UPC-A or EAN-13 symbols, EAN-8 symbols as EAN-13 symbols, or UPC-A symbols as EAN-13 symbols. The following table shows the effect of setting various options.

Option	EAN-8	UPC-A	UPC-E	All others
EAN8_as_EAN13	Converted to EAN-13	No effect	No effect	No effect
UPCA_as_EAN13	No effect	Converted to EAN-13	No effect	
UPCE_as_EAN13	No effect	No effect	Converted to EAN-13	

UPCE_as_UPCA	No effect	No effect	Converted to	
			UPC-A	

Table 10 - Symbology Conversion

Verification of Optional "Check Digit"

Code39 and Interleave 2 of 5 have an optional check digit, which, by default, is not verified. Changing the option **VerifyCheckDigit** to true may enable their verification, or the user may enable the verification for individual symbologies. If the check digit verification fails, the barcode is not transmitted.

Option Selected	Verify Code39 check digit	Verify I2of5 check digit
VerifyCheckDigit	Yes	Yes
Code39_VerifyCheckDigit	Yes	No effect
I2of5_VerifyCheckDigit	No effect	Yes

Table 11 - Verification of Optional "Check

Transmission of "Check Digit"

By default, the check digit – optional or mandatory – is not transmitted. Its transmission may be enabled for all symbologies by enabling **ReturnCheckDigit** option.

Option Selected	Is the check digit returned?					
ReturnCheckDigit	Yes	Yes	Yes	Yes	Yes	Yes
EAN13_ReturnCheckDigit	Yes	No effect	No effect	No effect	No effect	No effect
EAN8_ReturnCheckDigit	No effect	Yes	No effect	No effect	No effect	No effect
UPCA_ReturnCheckDigit	No effect	No effect	Yes	No effect	No effect	No effect

UPCE_ReturnCheckDigit	No effect	No effect	No effect	Yes	No effect	No effect
Code39_ReturnCheckDigit	No effect	No effect	No effect	No effect	Yes	No effect
I2of5_ReturnCheckDigit	No effect	No effect	No effect	No effect	No effect	Yes

Table 12 - Transmission of "Check Digit"

Resolution of Inconsistencies

Three types of inconsistencies could arise in the assignment of symbology options. The decoder has pre-defined strategies to resolve these inconsistencies: If UPCE_as_EAN13 is true, then UPCE_as_UPCA is ignored.

If symbology conversion is selected but the target symbology is not enabled, then the decoder still outputs the symbol in the target symbology. For example, suppose UPC-E is enabled and UPCE_as_EAN13 is true but EAN-13 is disabled. All UPC-E symbols will be shown as EAN-13 and EAN-13 options (if specified) will be applied. For the two symbologies that have optional check digits, Code39 and Interleave 2 of 5, the decoder will always transmit the check digit if the verification is disabled.

Verify Check Digit	Return Check Digit	Description
Disabled	Enabled or Disabled	Check digit is not verified but is transmitted
Enabled	Disabled	Check digit is verified but is not transmitted
Enabled	Enabled	Check digit is verified and is transmitted

Table 13 - Resolution of Inconsistencies

10.3 Miscellaneous Barcode Information

Height of a Linear Barcode

Industry standards suggest a height of either 6.5mm or 15% of the symbol length, whichever is greater. Symbols of less than recommended heights may cause recognition problems.

Check Characters

Yes, we recommend the use of check-characters in barcodes. Operating without check-characters is not safe and will lead to errors that are costly to correct. Using check-characters positively affects data integrity, especially when character density is at the limits and/or image quality is not at its best.

Prevent Interleave 2 of 5 Partial Reading

A partial scan of an Interleave 2 of 5 symbols may decode and cause incorrect data to be read. To prevent partial scans on long symbols, the user should include bearer bars. These bars run along the top and bottom edges of the barcode in the scanning direction. If a partial scan of the barcode occurs, the scanning beam will hit the bearer bar and will not decode. The bearer bar must touch the top and bottom of all the bars and must be at least 3 times as wide.

Another solution for the short scanning problem is to fix all Interleave 2 of 5 symbols to a set number of digits. Zeros may be used to pad the data to the set number of digits. The application program would then be set to only accept scans of the correct number of digits.

Finally, a check digit may be used. The Interleave 2 of 5 symbology has an optional check character that uses a weighted Modulo 10 scheme. The check character is the last character in the symbol and should be checked by the decoder and then transmitted with the data. Since Interleave 2 of 5 must always have an even number of digits, the leftmost character may need to be a zero when the check character is added. The standard check digit is calculated by assigning alternating 3,1,3,1... weights to respective data digits. These weights are then multiplied by their respective data digits and the products are summed. The check digit is the digit that needs to be

added to the sum to make it an even multiple of 10. An example would be if the sum of the products was 37, then the check digit would be 3.

Equation to Determining Potential Number of Stored Barcodes

The number of barcodes that may be stored in the KDC memory depends on the size of the barcodes.

<u>Example</u>: In case of EAN-13, it takes up 20 bytes. The maximum number of EAN-13 barcodes that may be saved is STORAGE_SIZE/20. For example, in case of 4MB, it may store maximum 204,800 barcodes and in case of 8MB, it may store maximum 409,600 barcodes.

Data Buffer Full

When the data buffer is full, the KDC displays a message, **Buffer Full**, ignoring any command to scan barcodes. The user must reset the data buffer to continue data collection.

11. Appendix B -FAQ

11.1 Symbology

Q: What barcode symbologies are supported by the KDC?

A: The KDC20/100/200/250/270L/270D/350L/410/411/415/470L/470D/500L support 1D barcode only. KDC30/270C/300/350C/420/421/425/450/470C/500C support most major 1D, 2D barcode symbologies and OCR.

KDC30/270C/300/350C/420/421/ 425/450/470C/500C

2D Barcodes

AztecCode, AztecRunes, CodablockF, Code16K, Code49, DataMatrix, MaxiCode, MicroPDF, PDF417, QRCode, and HanXin Code

1D Barcodes

Codabar, Code11, Code32, Code39, Code128, EAN8, EAN13, GS1-128, I2of5, MSI, Plessey, PosiCode, GS1 DATABAR OMNI, GS1 Limited, GS1 Expanded, S2of5IA, S2of5ID, TLC39, Telepen, Trioptic, UPCA, and UPCE

Postal Barcodes

AusPost, CanadaPost, ChinaPost, JapanPost, KoreaPost, KixPost, Planet Code, Postnet (US), and UKPost

OCR Fonts

OCR-A, OCR-B, OCRPassport,

KDC20/100/200/250/270L/270D/350L /410/411/415/470L/470D/500L 1D Barcodes

EAN13

EAN8

UPCA

UPCF

Bookland EAN

EAN13 with Add-on

EAN8 with Add-on

UPCA with Add-on

UPCE with Add-on

Interleave 2 of 5

ITF14

Code128

Codabar

GS1-128

Code39

Code93

Code35

Table 15 – Symbologies supported by KDC

11.2 Host Interface

Q: What interface ports are supported by the KDC?

A: The KDC100 has two USB ports: Swing-out Type A and Ultra-mini USB ports that support USB to Serial protocol. KDC200/250/300/350/400(except KDC470) have one Ultra-mini USB port that supports USB to Serial protocol and Bluetooth that supports HID/SPP/MFi *Bluetooth* profiles. KDC270 and KDC470 have one Micro USB port. KDC20/30 have one Swing-out Type A USB port which supports USB to Serial protocol and Bluetooth with HID, SPP and MFi *Bluethooth* profiles. KDC500 has one micro USB port that supports USB to Serial protocol and Bluetooth that supports SPP/MFi *Bluetooth* profile.

11.3 Battery

Q: How long will the KDC battery last before it needs to be replaced?

A: The battery on the KDC may be charged at least 300 times before it needs to be replaced.

Q: How long does it take to charge the KDC?

A: It takes about 2 hours to charge the KDC20/100/200, 4 hours to charge the KDC30/250/300/270, and 5 hours to charge the KDC350/400/470/500.

Q: How many barcodes may a fully charged KDC scan?

A: If the user scans a barcode every 1 seconds, KDC100/30 scans more than 12,000 barcodes, KDC20 scans more than 11,000 barcodes, KDC200 scans more than 8,500 barcodes, KDC250/270L/270D scans more than 33,000 scans, KDC270C/300 scans more than 22,000 scans and 2D models of KDC350/400/470/500 scan more than 40,000.

Q: How long will the KDC battery lasts in the sleep mode?

A: **KDC100** lasts more than 75 days. **KDC20/200** lasts more than 2 days while connected in Bluetooth and 60 days if not connected in Bluetooth.

KDC250/270L/270D lasts 7 days while connected in Bluetooth and 120 days if not connected in Bluetooth. KDC30/270C/300 last more than 25 days while connected in Bluetooth and 5 days if not connected in Bluetooth. KDC350 lasts more than 12 hours while GPS is active and Bluetooth is connected, 7 days while GPS is not active and Bluetooth is connected, and 20 days while GPS is not active and Bluetooth is not

connected. **KDC410/415/420/425/430/470** last more than 8 days while connected in Bluetooth and 20 days while if not connected in Bluetooth. **KDC450/470** lasts more than 4 hours while reading RFiD tag continuously every second and Bluetooth is connected, 5 days if reading RFiD tag casually and Bluetooth is connected. **KDC500** lasts more 7 days while connected in Bluetooth and 10 days if not connected in Bluetooth.

Q: May I replace the KDC battery?

A: Yes. The KDC has a separate compartment for the battery that may be opened easily with a driver. KDC batteries may be purchased at www.KOAMTACstore.com or from local KDC reseller.

11.4 Memory

Q: How many barcodes may be stored in the KDC?

A: 4MB version of KDC100M/200M/250M/300M/350 may store maximum of 204,800 barcodes and 8MB version and KDC270/470 may store maximum of 409,600 barcodes. KDC20/30 have 150KB data memory which may store maximum 7,680 barcodes. KDC41x/42x has 80KB data memory and may store maximum 4,096 barcodes. KDC500 has 3MB data memory which may store maximum 153,600 barcodes.

Q: May I download stored barcodes or wedge barcodes to my application?

A: Yes. KTSync[®] is keyboard wedging, application generation, DB look up, and inventory program bundled with the KDC200/250/270/300/350, which supports host devices running on Android[®], iPhone/iPad/iPod touch, Blackberry[®], Windows[®] XP/Vista/7/8/10/Mobile 5.0+. KTSync[®] provides keyboard wedging program only for KDC20/30/400/470. KDC100 and KDC500 only supports Windows XP/Vista/7 version.

Q: Does the KDC support *Android*, *iPhone/iPad/iPod touch*, *Blackberry*, Mac and *Windows* devices?

A: KTSync[®] currently supports Android[®], iPhone/iPad/iPod touch, Blackberry[®], Mac[®] and Windows[®] devices.

11.5 Programming

Q: May the KDC be programmed by a KOAMTAC partner?

A: Yes. KOAMTAC's Application Generation tool provides an enhanced programming environment for developing custom applications for the KDC.

- KDC supports, at most, three step data collection processes, including the ability to perform various data functionality features.
- 2. KDC's database lookup function provides enhanced data processes, enabling the KDC to display database results with or without scanned barcode data.
- 3. KDC may display a message from the Host by enabling two-way communications and a messaging application.

Q: Does KOAMTAC provide customization services for the KDC?

A: Yes. Custom applications or projects may be developed by KOAMTAC engineers. This service is provided for an additional fee to KOAMTAC. For more information regarding this service, please contact KOAMTAC.

Q: May a partner develop a PC or Smartphone application for the KDC?

A: A software development kit for Windows XP/Vista/7/8/10/Mobile 5.0+ and Android is available on KOAMTAC support page. Android, iPhone/iPad/iPod touch, Blackberry, a

12. Appendix J – Product Specification

12.1 KDC270

Main Processor	ARM7, 32bits			
Memory	256KB for Firmware, 64KB for RAM, 8MB for User Data			
RTC	Quartz RTC			
LED	1 Tri-Color LED			
Display	1.01" OLED(128x64)			
Buttons	1 Scan Button and Up/Down Button			
Battery	Li-ion 3.7 V 650 mAh			
Charging	Micro USB cable or Charging Cradle			
Scan engine	1D Laser & CCD			
	2D Imager			
Interface	Bluetooth V2.1+EDR, Class 2, SPP/MFi/HID			
	Micro USB 5 Pin			
Size	40 x 82 x 18mm			
Weight	57.5g			
Ingress Protection Rating	IP65			
Drop Spec	5 feet (1.5m)			
Operating	-4°F(-20°C) ~ 122°F(50°C)			
Storage	-4°F(-20°C) ~ 140°F(60°C)			
Humidity	5% ~ 95%(noncondensing)			
High Internal Frequency	X-tal: 26 MHz			