KOAMTAC

KDC500
Quick Guide

Contents

See Reference Manual for more detailed information.
Visit store.koamtac.com to purchase additional products and accessories.

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1. Product Introduction

1D and 2D Bluetooth Barcode Scanner/EMV/Chip-and-PIN/MSR/NFC mPOS Companion

1.1 KDC500 Diagram

Scan Window

Left SCAN Button

Green/Red/Orange LED

Secure Touchpad

IC Card Reader

Micro USB Port

Right SCAN Button

OLED Screen

NFC Reader

Magnetic Stripe Reader

S/N Label

1.2 How to turn on and off

The KDC500 has must be turned on and off for normal operation. Please turn on the power first before using the device. The KDC500 is shipped with the power off.

1. To turn on, press left SCAN button and right SCAN button together for 3 seconds at the same time until you hear a short beep sound. KDC500 will sound a long beep when it is ready to use. (You should hear the long beep in about 30 seconds.)
2. To turn off, press left SCAN button and right SCAN button together for 3 seconds at the same time. You can make sure that it is turned off by pressing any SCAN button to read a barcode after that. If you do not see the scanning beam, the device is off.

See the diagram above to locate the SCAN buttons.

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2. Bluetooth Pairing

Connecting your KDC using Bluetooth is made easy with the below pairing barcodes. If you are unsure which profile is right for you, please visit www.koamtac.com for more information.

2.1 Pairing a KDC500 to your smart device

SPP & MFi

1. Navigate to the Bluetooth setting on the host PC, Mac, Smartphone, or Tablet.
2. Ensure that Bluetooth is enabled on the host device and searching for devices.
3. Using the KDC, scan the pairing barcode that corresponds to your desired Bluetooth profile. If you are unsure which Bluetooth profile is right for you, please refer to the previous panel.
4. Check the list of available Bluetooth devices on your host device.
5. From the list, select KDC500 listed by serial number in brackets that matches the serial number found on the back side of the KDC500.
6. In HID mode, KDC500 is now ready to use.
7. To complete connection in SPP/MFi mode, launch KTSync or your application and select KDC500.

* The KDC500 will beep when successfully connected.

See Reference Manual for more detailed information.
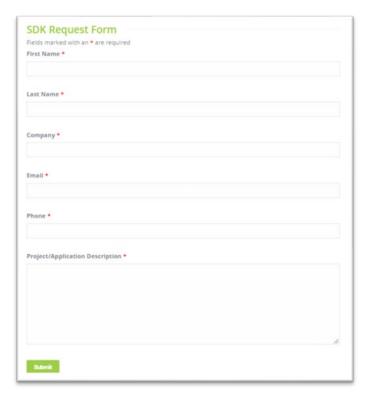Visit store.koamtac.com to purchase additional products and accessories.

3. Usage

3.1 Using other Developed Applications with free SDK – Android/iOS

A Software Development Kit (SDK) for Android and iOS is available to all KOAMTAC customers to ensure smooth development of applications that work seamlessly with a KDC scanner. It's easy to request the SDK from the KOAMTAC website:

a) On any web browser, open
   www.koamtac.com
b) Navigate to SUPPORT > Downloads > SDK
c) Complete the form and submit it.

After submission, a KOAMTAC representative will reach out regarding next steps for completing the SDK Agreement.

The SDK package will have libraries, documents, a sample application, and its source code.

SDK Request Form

Fields marked with an * are required

First Name *

Last Name *

Company *

Email *

Phone *

Project/Application Description *

Submit

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4. Product Specifications

Physical	Design	Bluetooth mPOS Companion
	Size	1.93" x 4.60" x 0.98" (49 mm x 117 mm x 25 mm)
	Weight	5.64 oz (160 g)
Functionality	Supporting OS	Android / iOS / Mac OS X / Windows
	Keys	2 Scan Keys, Secure Touchpad
	Buzzer	Yes
	LED Indicator	1 Tri-color LED (Red / Amber / Green)
	USB Port	1 Micro USB Port
Memory	RAM	SDRAM 128KB
	ROM	Internal Flash ROM 1MB External Flash ROM 8MB
	Barcode Storage	209,700 Barcodes (EAN-13)
Power	Battery (Standard)	1,130 mAh Lithium-ion
	Charging Solution	Micro USB Connector
	Charging Time	4 Hours
Communication	Bluetooth	V2.1+EDR, Class2, SPP/MFi
	USB	USB to Serial (Micro USB Connector)
Barcode Reader	1D Laser	Yes
	1D CCD	No
	2D Imager	Yes
	# of scans per charge (1 sec interval)	Laser: >18,500 Imager: >18,500
	# of scans per charge (10 sec interval)	Laser: >6,900 Imager: >6,900
	Scan Range (10mil Code39)	Laser: 2.17" to 11.81" (55 to 300 mm) Imager: 1.1" to 13.3" (36 to 338 mm)
	Screen Reading	Laser: No Imager: Yes
	Postal Codes / OCR Passport	Laser: No Imager: Yes / No
Environment	Drop Spec	4 ft (1.22 m)
	IP Rating	IP42
	Operating Temp.	-4 ˚F to 122 ˚F (-20 ˚C to 50 ˚C)
	Storage Temp.	-4 ˚F to 140 ˚F (-20 ˚C to 60 ˚C)
	Humidity Spec	5% ~ 95% (non-condensing)
Regulatory Conformance	Laser Safety	IEC60825/CDRH Class II
	LED Safety	IEC62471:2006
	Regulatory	R&TTE, FCC, KC, TELEC, VCCI, RoHS Compliant
Payment	PCI	PCI-PTS V4.x SRED

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Certification	EMV	EMV L1 & L2 Contact EMV L1 Contactless Master Card Contactless 3.1.1 VISA payWave 2.2
	Encryption	DES, 3DES, AES
Accessories	1-Slot Charging Cradle	Yes

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5. Useful Special Barcodes

5.1 NFC

Enable NFC Power	Disable NFC Power
┬MKDCN0001.	┬MKDCN0010.

5.2 MSR

Enable MSR Power	Disable MSR Power
┬MKDCMB001.	┬MKDCMB010.
Enable Use Track1	Disable Use Track1
┬MKDCM3001.	┬MKDCM4001.
Enable Use Track2	Disable Use Track2
┬MKDCM3002.	┬MKDCM4002.
Enable Use Track3	Disable Use Track3
┬MKDCM3004.	┬MKDCM4004.

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MSR Card Type = ISO	MSR Card Type = Other 1
⊤MKDCMA000.	⊤MKDCMA001.
MSR Card Type = AAMVA	MSR Card Type = JIS 2
⊤MKDCMA002.	⊤MKDCMA003.

5.3   ICCR (IC Card Reader)

Enable ICCR Power	Disable ICCR Power
⊤MKDCI0001.	⊤MKDCI0010.
IFD Number	Config Number
⊤MKDCI1000.	⊤MKDCI1001.

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