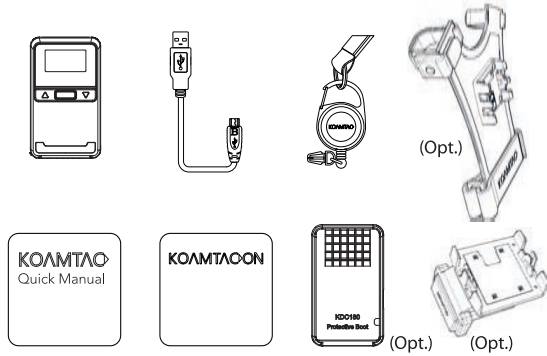


What's in the Box?

- ▶ KDC180
- ▶ Micro USB Cable
- ▶ KDC® Lanyard
- ▶ Quick Manual
- ▶ KOAMTACON Guide
- ▶ Ring Trigger or Finger Trigger Glove (Optional)
- ▶ Protective Rubber Boot (Optional)



Bluetooth Profiles Explained

HID

Allows one-way Bluetooth communication with an Android or iOS host device. The KDC only transmits data to the host device.

SPP

Allows two-way Bluetooth communication. The KDC transmits data to host device and the host can transmit data back to the KDC.

HID Windows

Allows one-way Bluetooth communication with Windows host device. The KDC only transmits data to the host device.

HID inputs data directly into an application. SPP requires KOAMTAC KTSync® app or integration of KOAMTAC SDK to input data into an application.

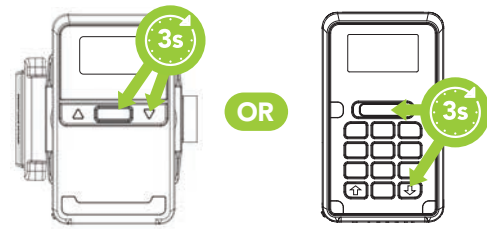
Powering On/Off

Power On

Press and hold the SCAN and DOWN buttons for 3 seconds.

Power Off

Press and hold the SCAN and DOWN buttons for 3 seconds again.

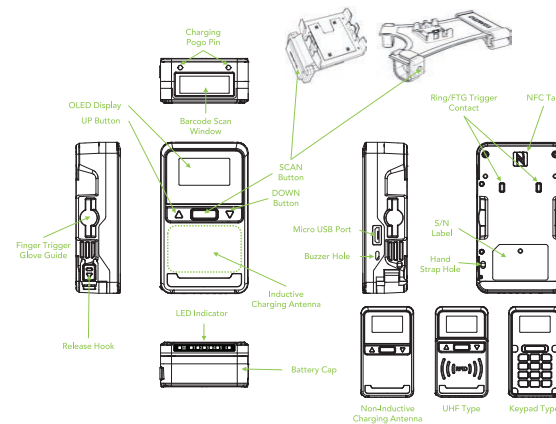


* The SCAN buttons on the KDC180 or Ring Trigger may be used for powering on/off.

Pairing & Connecting

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 previous panel.
4. Check the list of available Bluetooth devices on your host device. In iOS, the application will need to search devices.
5. From the list, select the KDC180 listed by serial number in brackets that matches the serial number found on the back side of the KDC180.
6. In HID Mode, KDC180 is ready to use.
7. To complete connection in SPP Mode, launch KTSync or your application and select KDC180 to connect.

KDC180 Diagram



Additional Accessories

- ▶ Finger Trigger Glove
- ▶ Ring Trigger (Left/Right/Double)
- ▶ Protective Rubber Boot
- ▶ 2-Slot and 10-Slot Charging Cradles
- ▶ Micro USB Cable
- ▶ KBLED41 BLE Dongle

KDC180 Models

- ▶ KDC180U Wearable 0.5W UHF Reader
- ▶ KDC180H 2D Imager
- ▶ KDC180H 2D Imager with Keypad
- ▶ KDC180H 2D Imager with Inductive Charging
- ▶ KDC180H 2D Imager with 0.5W UHF Reader

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Pairing via NFC (Android Only)

This feature applies only to Android host devices and is available for HID or SPP pairing profiles only.

1. Navigate to the NFC setting on the host device and ensure that Bluetooth is both enabled and searching for devices.
2. Make sure NFC pairing is enabled on the KDC by navigating to KDC MENU > BLE Config > NFC Pairing > Enabled > Save & Exit.
3. Select the pairing profile on the KDC by navigating to KDC MENU > BT Config > Connect Device > Select HID or SPP > Save & Exit
OR use the pairing barcodes in the next panel.
4. Approach the NFC area on the back of the host device with the KDC to complete pairing.

Pairing Barcodes



HID



HID Windows



SPP

KOAMTAC

KDC180 Mini Guide



NFC Pairing Barcodes (Android Only)



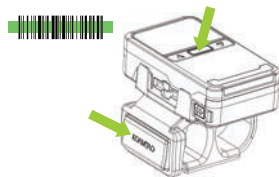
HID (Android Only)



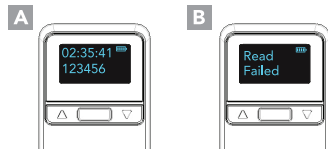
SPP (Android Only)

How to Read Barcodes

1. Aim the KDC directly at the barcode and press the SCAN button on the KDC or on the Ring Trigger, ensuring the beam covers the barcode horizontally.



2. A successful scan (A) will sound 1 beep, show 5 green LEDs, and display the scanned info on the screen. An unsuccessful scan (B) will sound 2 beeps, show 5 red LEDs, and display "Read Failed" on the screen.



UHF Single Read Mode

Only one tag is read every time the scan button is pressed.

- * 1 short beep sounds when changing mode with DOWN key.

Single Read Mode



UHF Multiple Read Mode

When the SCAN button is pressed, multiple tags are read simultaneously for the set time (default 10 seconds).

- * Time setting can be changed in Settings -> Reading Timeout.
- * 2 short beeps sound when changing mode with DOWN key.

Multiple Read Mode



LED Indicator Status

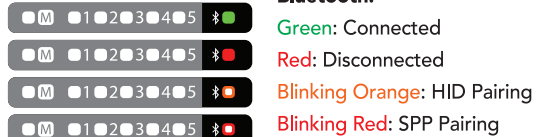
The KDC180 is equipped with a set of LED indicators that provide operational feedback & can be programmed via SDK.

Charging:



* Lights 1 through 5 illuminate based on battery level.

Bluetooth:



Read Indicators:



* Lights 1 through 5 illuminate based on battery level.

Toggle Read Modes*

There are two read modes in which the SCAN button works: Barcode Mode and UHF mode. They are toggled by pressing the UP button for 3 seconds.



When entered into this mode, 1 long and 1 short beep will be heard. Barcodes can be read with the SCAN button.



When entered into this mode, 1 long and 2 short beeps will be heard. UHF tags can be read with the SCAN button.

Read Mode Indicator:



* When not being charged.

* Only applicable to KDC180 models with UHF Reader.

Changing UHF Tag Read Mode*

The tag read mode is changed by scanning one of the following barcodes or by pressing the DOWN key on the KDC180 for 3 seconds in RFID mode.

The tag read mode is changed in the following order: Active (default) read -> Single read -> Multiple read

UHF Active Read Mode

Basic operation status. Simultaneous reading of multiple tags while pressing the scan button (max. 10 minutes).

* 3 short beeps sound when changing mode with DOWN key.

Active Read Mode



* Only applicable to KDC180 models with UHF Reader.

KDC180 Accessories



Ring Trigger for KDC180

The KDC180 Ring Trigger fits comfortably around the index and middle fingers while the scan button is easily operated with your thumb.



Finger Trigger Glove for KDC180

The KDC180 Finger Trigger Glove offers the same great benefits as the KDC180 Ring Trigger in the form factor of an over-the-hand glove.



KDC180 Charging Cradles

Conveniently charge your KDC180 and spare batteries. Available in 2-Slot and 10-Slot configurations.

How to Read UHF Tags

Use KDC180 UHF facing forward as shown as below. (C)



* Only applicable to KDC180 models with UHF Reader.

Using Keyboard Wedge

Keyboard wedge allows you to use your KDC as a keyboard. The HID profile works as keyboard wedge by default. When using SPP or MFi, KTSync provides a keyboard wedge function when KTSync keyboard is enabled. Please refer to the KDC Reference Manual for detailed instructions to enable KTSync keyboard.

1. Ensure that the KDC is connected to the host using the HID profile or the KDC is connected via KTSync keyboard using SPP/MFi profiles.
2. Open any application on the host device that contains a text field you want to populate.
3. Tap the text field in the application.
4. Scan any barcode with the KDC.
5. The barcode data will then populate in the text field.

KTSync & SDK

KTSync® is a program which communicates with the KDC via Bluetooth. It enables users to read and store data. KTSync is compatible with iOS, Android, Windows, and Mac. It also supports wedging and downloading data from the KDC.

For more information about KTSync, please visit: www.koamtac.com/support/downloads/applications

The Software Development Kit (SDK) is the perfect solution for creating a custom application to collect data utilizing your KDC. The KOAMTAC SDK covers all major development platforms: Android, iOS, Mac OS X, Tizen, Windows, Xamarin, and Cordova. Developers may take advantage of the complimentary SDK and enjoy the full benefits of the KOAMTAC Developer Program.

For more information regarding the KOAMTAC Developer Program or to request the latest SDKs, visit: www.koamtac.com/support/downloads/sdk or e-mail sdk@koamtac.com.

Specs

Functionality

Memory Flash ROM: 256KB
Program, 256KB User Data
Memory RAM: 64KB
Can store up to 13,000 barcodes (EAN-13)

Wedging & Synchronization

Store to file or transfer to app
Keyboard wedge function
Add-on prefixes and suffixes
Barcode option selection

Scan Range (20mil Code39)

KDC180H: 1.73" to 31.5"
(44 mm to 800 mm)

Supported RFID Standards (UHF Companion)

EPC Class1 Gen2, EPC Gen2 V2

Nominal Read Range (UHF)
1.5'+ (0.5m+)

Interfaces

Bluetooth® Low Energy 5.0:
HID (Android/iOS/Windows),
SPP (Optional Secure Mode)
Micro USB: USB HID, USB Serial
(Android w/ OTG cable/Windows)

User Environment

IP Rating: IP65
Drop Spec: 6' (1.8 m)
Operating: -4°F to 122°F
(-20°C to 50°C)
Storage: -4°F to 140°F
(-20°C to 60°C)
Humidity: 5% to 95%
(non-condensing)

Supporting OS

Android, iOS, Mac OS X,
Tizen, Windows, Xamarin,
Cordova