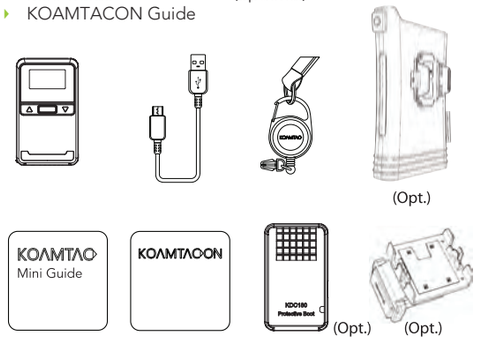
What's in the Box?

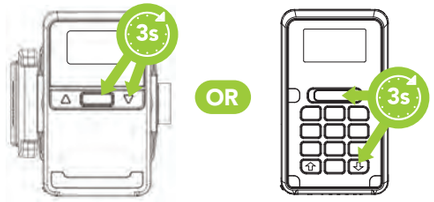
- KDC180
- USB Cable
- KDC® Lanyard
- Mini Guide
- KOAMTACON Guide
- Ring Trigger or Safety Glove (optional)
- Protective Rubber Boot (optional)



Powering On/Off

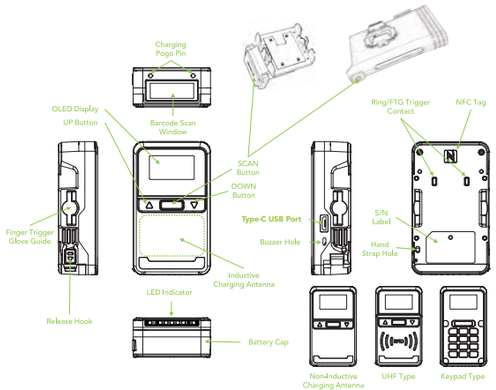
Power On
Press and hold the SCAN and DOWN buttons for 3 seconds.

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 be used for powering on/off.

KDC180 Diagram



Additional Accessories

- Safety Glove
- Ring Trigger
- Protective Rubber Boot
- 2-Slot and 10-Slot Charging Cradles
- Type-C USB Cable
- KBLED50 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
- KDC180MR Medium Range Wearable Scanner
- KDC180ER MeExtended Range Wearable Scanner

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KOAMTAC

KDC180 Mini Guide

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 the host device and the host can transmit data back to the KDC.

HID Windows — Allows one-way Bluetooth communication with a Windows PC. The KDC only transmits data to the Windows PC.

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

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.

Pairing Barcodes

HID

HID Windows

SPP

Pairing via NFC (Android Only)

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

1. The default connection mode is SPP. To pair in SPP mode, approach the NFC antenna area on the back of the host device with the KDC to complete pairing.

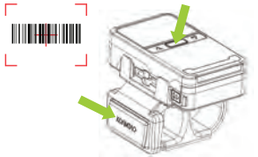
2. If HID mode is preferred, scan the HID Mode barcode first, then approach the NFC antenna area on the back of the host device with the KDC to complete pairing.

NFC HID

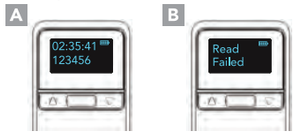
NFC SPP

How to Read Barcodes

1. Press the SCAN button on the KDC180, Ring Trigger, or Safety Glove and aim directly at the barcode using the aimer as a guide.

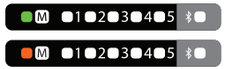


2. A successful scan (A) will sound 1 beep, show green LEDs, and display the scanning info on the screen. An unsuccessful scan (B) will sound 5 beeps, show red LEDs, and display "Read Failed" on the screen.



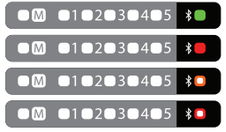
LED Indicator Status

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



Charging:
Green: Charging Complete
Orange: Charging

* Lights 1 through 5 illuminate based on battery level.



Bluetooth:
Green: Connected
Red: Disconnected
Blinking Orange: HID Pairing
Blinking Red: SPP Pairing

Read Indicators:
Green: Successful Read
Red: Failed Read

* Lights 1 through 5 illuminate based on battery level.

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, 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 the SPP profile.
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.

Toggling 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:
Green: Barcode Read Mode
Red: UHF Read Mode
* When not being charged.

* Only applicable to KDC180 models with UHF Reader.

KTSync & SDK

KTSync® is a program which communicates with the KDC via Bluetooth or USB. It enables users to read and store data. KTSync is compatible with iOS, Android, Windows, and Mac. It also supports wedging and uploading 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, 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 SDK, visit:
www.koamtac.com/support/downloads/sdk
or e-mail sdk@koamtac.com.

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 UHF 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.

Safety Glove for KDC180
The Safety Glove fits comfortably on your bare hand or over a work/winter glove. It is constructed from lightweight, cut-resistant yarn.

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

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 UHF Config -> Timeout from KDC or Setting -> KDC Menu -> UHF Options -> UHF Reading Timeout from KTSync.
* 2 short beeps sound when changing mode with DOWN key.

Multiple Read Mode

KDC180 Models

KDC180H/MR/ER
Barcode

KDC180HW
Barcode & Wireless Charging

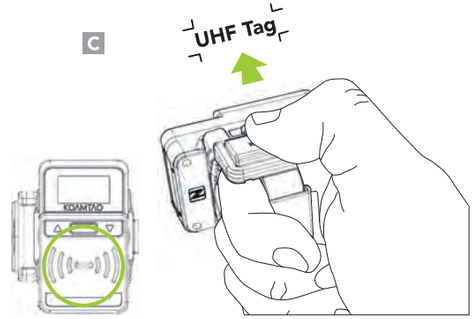
KDC180HK
Barcode & Keyboard

KDC180HU
Barcode & 0.5W UHF

KDC180U
0.5W UHF

How to Read UHF Tags

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



* Only applicable to KDC180 models with UHF Reader.

Specs

Functionality
Memory Flash: 8MB
Can store more than 250,000 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: 1.7" to 31.5" (44 mm to 800 mm)
KDC180MR: 3.3" to 59.0" (85 mm to 1500 mm)
KDC180ER: 3.4" to 104.1" (88 mm to 2848 mm)

Interfaces
Bluetooth® Low Energy 5.0:
HID (Android/iOS/Windows),
SPP (Optional Secure Mode)
USB: Flash memory (Windows), 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, Windows, Xamarin, and Cordova

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