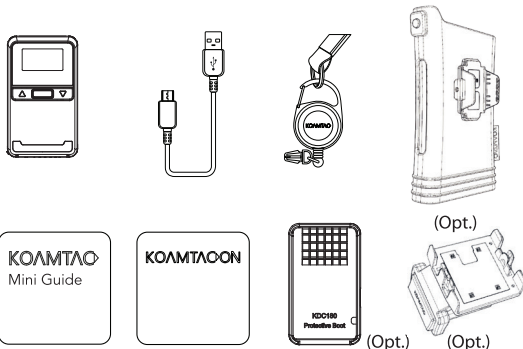


What's in the Box?

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



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

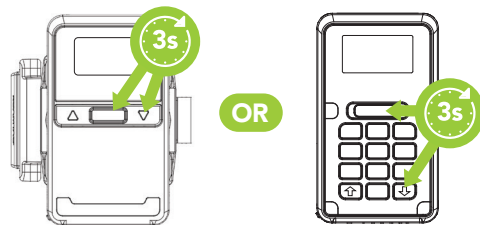
Allows one-way Bluetooth communication with a Windows PC. The KDC only transmits data to the Windows PC.

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.

Powering On/Off

To power on the KDC180, press and hold the SCAN and DOWN buttons for 3 seconds.

To power off the KDC180, press and hold the SCAN and DOWN buttons for 3 seconds again.



The SCAN button on the KDC180, Ring Trigger, or Safety Glove can be used to power the device on or off when used in combination with the DOWN button.

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.

Additional Accessories

- Safety Glove
- Safety Glove
- Protective Rubber Boot
- 2-Slot & 10-Slot Charging Cradles
- Protective Rubber Boot
- Type-C USB Cable
- KBLED50 BLE Dongle

KDC180 Models

- KDC180U Wearable 0.5W UHF Reader
- KDC180HU Wearable 0.5W UHF Reader & 2D Imager Scanner
- KDC180H 2D Imager Wearable Scanner
- KDC180HK 2D Imager Wearable Scanner with Keyboard
- KDC180MR Medium Range Wearable Scanner
- KDC180ER MeExtended Range Wearable Scanner



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Pairing & Connecting



HID



HID Windows



SPP



KDC180

Mini Guide



For details on warranty, certifications, and legal compliance, please refer to koamtac.com and the Reference Manual.

Pairing via NFC (Android Only)

This feature is supported only on Android host devices and is available exclusively for HID and SPP pairing profiles.

1. The default connection mode is SPP. To pair using SPP mode, bring the KDC close to the NFC antenna area on the back of the host device.
2. To use HID mode instead, scan the HID mode barcode first, then bring the KDC close to the NFC antenna area on the back of the host device to complete pairing.



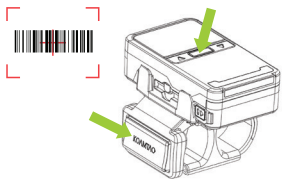
NFC HID



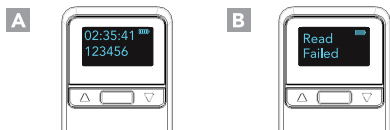
NFC SPP

Basic Operation

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



A successful scan (A) will emit one beep, show green LEDs, and display the scanned information on the screen. An unsuccessful scan (B) will emit five beeps, show red LEDs, and display 'Read Failed' on the screen.



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

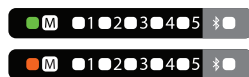
Default operation status. Simultaneous reading of multiple tags while pressing the scan button (max. 10 minutes).

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



LED Indicator Status

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



Charging:
Green: Charging Complete
Orange: Charging

LEDs 1 through 5 illuminate according to the battery level.



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



Read Indicators:
Green: Successful Read
Red: Read Failed

LEDs 1 through 5 illuminate according to the battery level.

UHF Single Read Mode

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

* Sounds 1 short beep when changing mode with DOWN key.



UHF Multiple Read Mode

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

* Sounds 2 short beeps when changing mode with DOWN key.

* Time setting can be changed in UHF Config -> Timeout from KDC or Setting -> KDC Menu -> UHF Options -> UHF Reading Timeout from KTSync.



Toggling Read Modes

The KDC180 with UHF Reader supports two read modes: Barcode Mode and UHF Mode.

You can toggle between these modes by pressing and holding 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.

Keyboard Wedge, KTSync®, and SDK

The KDC180 can be used as a keyboard to enter barcode data into text fields. In HID mode, it functions as a keyboard wedge by default. In Serial (SPP) mode, KTSync provides the wedge function when the KTSync keyboard is enabled. For setup instructions, please refer to the KDC Reference Manual.

1. Connect the KDC180 via HID or Serial with KTSync keyboard enabled.
2. Open an app with a text field and tap the field.
3. Scan any barcode with the KDC180.
4. The barcode data will appear in the field.

KTSync® connects with the KDC180 via USB, Serial, or Bluetooth to read, store, wedge, and download data. It supports iOS, Android, Windows, and Mac.

Learn more: www.koamtac.com/support/downloads/applications

The KOAMTAC SDK lets you build custom apps for all major platforms, including Android, iOS, Windows, Xamarin, Cordova, React Native, and Flutter.

Request the SDK: www.koamtac.com/support/downloads/sdk or email sd@koamtac.com.

How to Read UHF Tags

Use the KDC180 UHF with the reader facing forward toward the UHF tag, as shown below (C), and press the SCAN button to trigger a read."



This applies only to KDC180 models equipped with a UHF reader.

KDC180 Diagram

