KOAMTAC

KDC180
Quick Guide

116 Village Blvd, Suite 305, Princeton, NJ 08540 USA
T: + 1-609-256-4700 F: +1-609-228-4373
info@koamtac.com www.koamtac.com

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QG_KDC180_20201014

Contents

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1. Product Introduction

The KDC180 Bluetooth barcode scanner is a 2D Imager Bluetooth Barcode Data Collector and it has several variations: KDC180 with inductive charging, KDC180 with keypad, KDC180 with UHF RFID reader, and KDC180 with UHF RFID reader and no barcode scanner. They all support Bluetooth Low Energy (BLE) v5.0.

1.1 KDC180 Diagram

Charging Pogo Pin

OLED Display

UP Button

Barcode Scan Window

SCAN Button

DOWN Button

Finger Trigger Glove Guide

Release Hook

LED Indicator

Inductive Charging Antenna

Battery Cap

Micro USB Port

Buzzer Hole

Ring/FTG Trigger Contact

NFC Tag

S/N Label

Hand Strap Hole

Non-Inductive Charging Antenna

UHF Type

Keypad Type

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1.2 How to turn on and off

Refer to the figure in section 1.1 to locate the SCAN and DOWN buttons.

Note: The trigger on the Ring Scanner and Finger Trigger Glove work as SCAN buttons.

On the keypad variation, the DOWN button is in the lower area.

a) Press and hold the SCAN + DOWN buttons simultaneously for 3 seconds.
b) The KDC will beep when it is turned ON.

2. Pairing (Bluetooth or NFC)

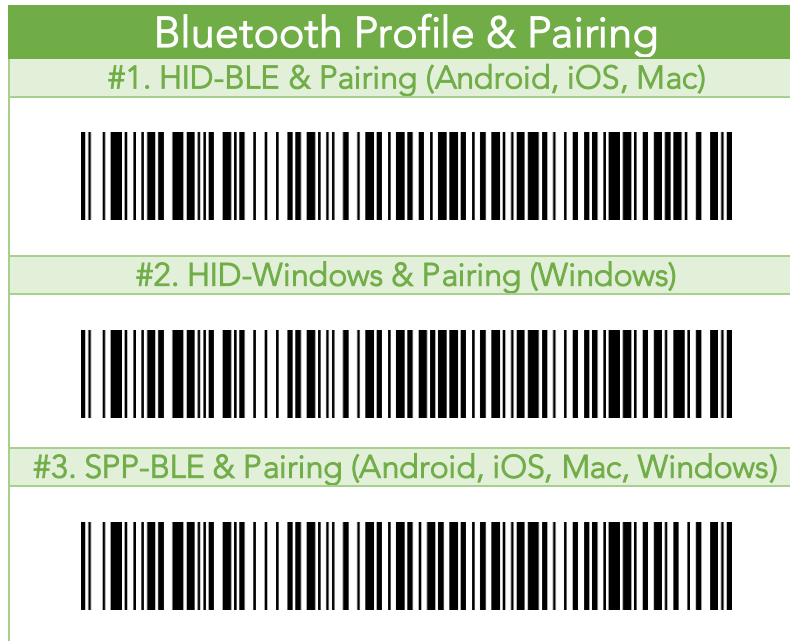Connecting your KDC using Bluetooth is made easy with the below pairing barcodes.

If using an Android device, pairing via NFC is even easier: just approaching the KDC to the back of the host device's NFC area is enough for pairing. For more details, see section 2.3

2.1 Bluetooth Profiles Explained

a. HID Profile: Allows one-way Bluetooth communication with an Android or iOS host device. The KDC only transmits data to the host device.
b. SPP Profile: Allows two-way Bluetooth communication. The KDC transmits data to the host device and the host device can transmit data back to the KDC.
c. HID Windows Profile: Allows one-way Bluetooth communication with Windows host device. The KDC only transmits data to the host device.

Note: HID inputs data directly into an application. SPP requires the KOAMTAC SDK to input data into an application. To gain access to the SDK, please complete the form here: https://www.koamtac.com/sdk/

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2.2 Bluetooth Pairing a KDC180 to your smart device with special barcodes

Bluetooth Profile & Pairing
#1. HID-BLE & Pairing (Android, iOS, Mac)
#2. HID-Windows & Pairing (Windows)
#3. SPP-BLE & Pairing (Android, iOS, Mac, Windows)

a. Navigate to the Bluetooth setting on the host device and ensure that Bluetooth is both enabled and searching for devices.
b. Using the KDC, scan the pairing barcode above that corresponds to your desired Bluetooth profile. If you are unsure which Bluetooth profile is right for you, please refer to Chapter section 2.1.
   - If you use an Android, iOS, or Mac device and desire an HID connection, then scan barcode #1 above.
   - If you use a Windows device and desire an HID connection, then scan barcode #2 above.
   - If you desire an SPP connection for any device, then scan barcode #3 above.
c. In HID or HID Windows Profile, check the list of available Bluetooth devices on your host device. 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. KDC180 will beep upon connection and display "Bluetooth Connected" on its screen. Now it is ready to use.
d. In SPP Profile for non-iOS, check the list of available Bluetooth devices on your host device. 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. KDC180 will beep upon connection and display "Bluetooth Connected" on its screen, but you should launch KTSync or your application and select KDC180 within the application to complete the connection. Now it is ready to use.

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e. In SPP Profile for iOS, the KDC is NOT listed on your host device, so you should launch KTSync or your application and select the KDC180 listed by serial number in brackets that matches the serial number found on the back side of the KDC180. KDC180 will beep upon connection and display "Bluetooth Connected" on its screen. Now it is ready to use.

2.3   Bluetooth Pairing a KDC180 to your smart device with NFC (Android Only)

This feature applies only to Android. KDC may be paired in either HID or SPP only.

a. Navigate to the NFC setting on the host device and ensure that Bluetooth is both enabled and searching for devices.
b. On the KDC, make sure NFC pairing is enabled by navigating to KDC MENU → BLE Config → NFC Pairing → Enabled → Save & Exit.
c. On the KDC, select the pairing profile by navigating to KDC MENU → BT Config → Connect Device → Select HID or SPP → Save & Exit.
Or, select the profile using the special barcodes below:

Select Bluetooth Profile
#1. HID Profile (Android Only)
#2. SPP Profile (Android Only)

d. Approach the NFC area on the back of the host device with the KDC to complete pairing.

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3. UHF Model: KDC180U or KDC180HU

3.1 Pairing (KDC180U: UHF Only. No Barcode Scanner)

The KDC180U is not equipped with for barcode scanning, so there are barcodes can no be used to change settings. You must change settings through the menu.

➢ Menu mode can be entered by pressing <UP> key and <DOWN> key at the same time.
➢ For pairing, follow these steps:
1) Navigate to "BT Config" and select
2) Navigate to "ConnectDevice" and select
3) Navigate to the desired profile option and select
4) Navigate to "Save & Exit" and select
5) Navigate to "Top Menu" and select
6) Navigate to "Top Menu" and select
7) Navigate to "BT Service" and select
8) Navigate to "Pairing" and select

➢ For NFC pairing, refer to chapter 2.3 above. To select a profile, follow these steps:
1) Navigate to "BT Config" and select
2) Navigate to "ConnectDevice" and select
3) Navigate to any profile option to be used and select
4) Navigate to "Save & Exit" and select
5) Navigate to "Top Menu" and select

3.2 Toggling the Read Mode: Barcode Mode vs. UHF Mode

The SCAN button or the trigger on the ring/glove can be used to read barcodes (Barcode mode) or UHF tags (UHF mode) depending on the read mode and you can change the mode alternatively.

a) In "Barcode mode", a barcode can be read by a SCAN button or trigger button.
b) In "UHF mode", UHF tags can be read by a SCAN button or trigger button.
c) The KDC180U, by default, is set to "UHF mode." After factory default, the device will still be in "UHF mode."
d) The KDC180HU, by default, is set to "Barcode mode." After factory default, the device will be set to "Barcode mode."
e) There are two ways to change the read mode:
1) Press and hold the UP button for 3 seconds
2) Change from within the application using SDK
f) When the mode is changed, the KDC will give a series of beeps to confirm the mode change:
1. When you enter UHF Mode: 1 long and 2 short beeps
2. When you enter Barcode Mode: 1 long and 1 short beep

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3.3 Changing the UHF Read Tag Modes: Single, Multiple, or Active

This mode only works when the device is in UHF Mode. Refer to 3.2 to see how to toggle read modes.

When in UHF Mode, you have the option of scanning in 3 different modes. The modes change in the following order: Active (default) read -> Single read -> Multiple read. The mode can be changed by pressing the DOWN button for 2 seconds.

- **Single mode**: Only one tag is read every time the scan button is pressed.
  - o 1 short beep will occur when changing mode with Down key.
- **Multiple mode**: When the Scan button is pressed, reads multiple tags simultaneously for the set time (default 10 seconds).
  - o 2 short beeps will occur when changing mode with Down key.
  - o Time setting can be changed in Settings ->Reading Timeout.
- **Active mode**: Basic operation status. Simultaneous reading of multiple tags while pressing the scan button (max. 10 minutes)
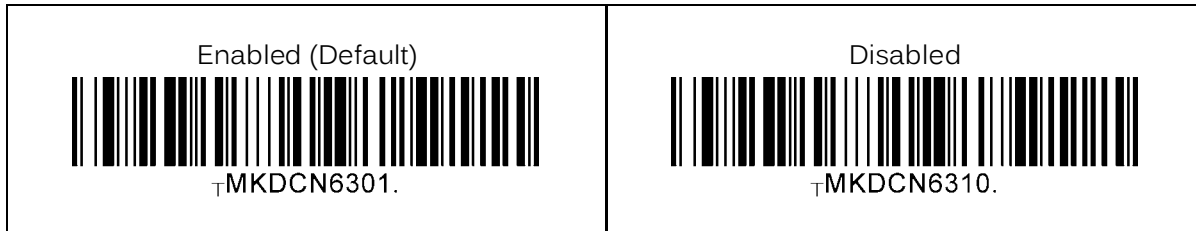 - o 3 short beeps will occur when changing mode with Down key.

Alternatively, you can scan the special barcodes to change the mode if KDC has a barcode scanner (KDC180HU). To change from active mode to another mode, you should disable Active Mode first.

Active Mode (Enable)	Active Mode (Disable)
⊤MKDCN6201.	⊤MKDCN6210.

Single Mode	Multiple Mode
⊤MKDCN6010.	⊤MKDCN6001.

In Active Mode, if the SCAN button or Trigger button is pressed more than 10 minutes, the read mode automatically changes from UHF Mode to Barcode Mode to save battery life in the case of the trigger being stuck in the scan position. This option is enabled by default and may be disabled.

If you need to scan with the trigger depressed for more than 10 minutes, you need to disable the Active Read 10 Minute Timeout.
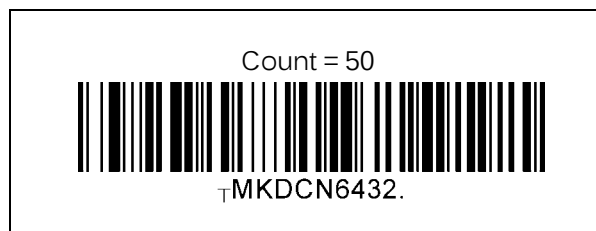
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Active Read 10 Minute Timeout

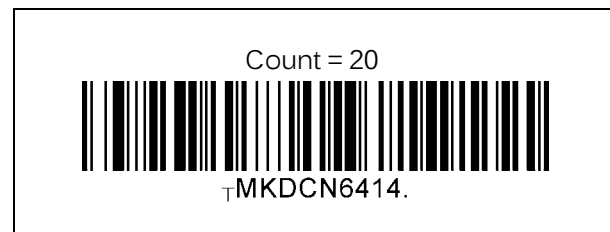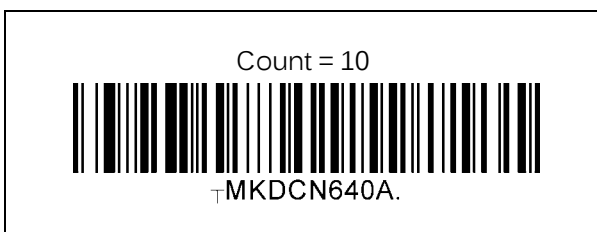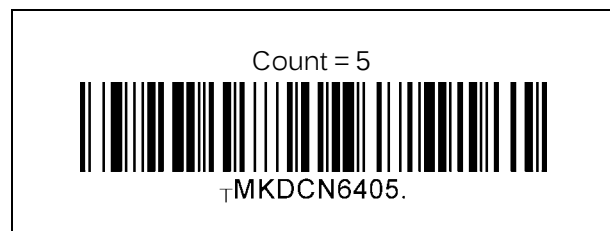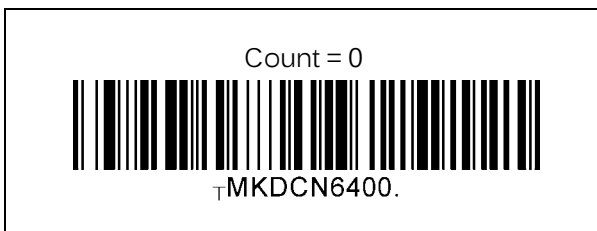| Enabled (Default)	Disabled
ₜMKDCN6301.	ₜMKDCN6310.

3.4   UHF Tag Counting (Beep Count)

By setting the Count attribute, you can get an estimate of how many tags are read per beep.

- Count = 0: The device only beeps once when you start reading
- Count = 5: Beeps once every 5 tags read.   Example: 2 beeps means you read 10 to 14 tags.
- Count = 10: Beeps once every 10 tags read.   Example: 2 beeps means you read 20 to 29 tags.
- Count = 20: Beeps once every 20 tags read.   Example: 2 beeps means you read 40 to 59 tags.
- Count = 50: Beeps once every 50 tags read   Example: 2 beeps means you read 100 to149 tags.

Scan the barcode on below that corresponds with your preference for Tag Counting.

Count = 0	Count = 5
ₜMKDCN6400.	ₜMKDCN6405.

Count = 10	Count = 20
ₜMKDCN640A.	ₜMKDCN6414.

Count = 50
ₜMKDCN6432.

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4. Usage

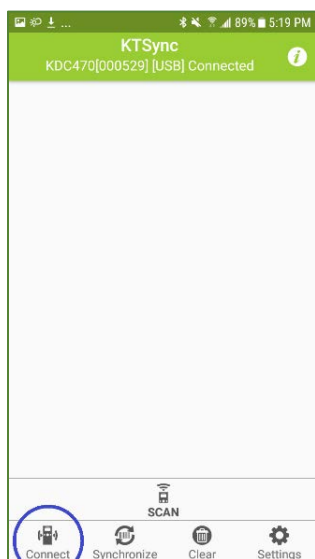### 4.1 Using Keyboard Wedge (HID Keyboard)

This option is only available using Bluetooth connection with HID profile.

Once the KDC is paired with the host, open any application with a text field and tap on the text field. Scan any barcode and it will populate in the text field.
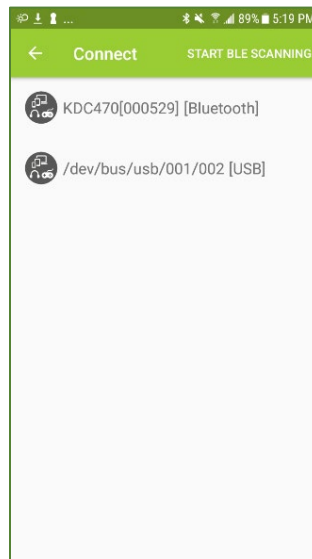
4.2 Using KTSync – Android/iOS

You can use KTSync to utilize your KDC alone or with a native application. This is only available using a Bluetooth connection with SPP or MFi.
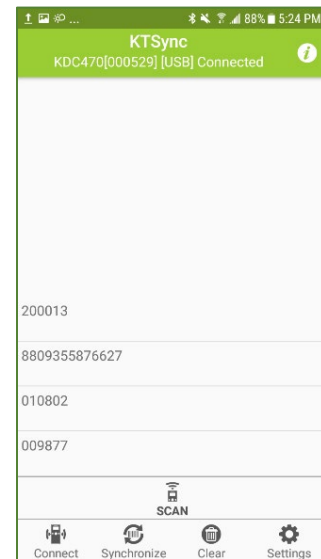
a) Download and install KTSync from the Google Play Store or the Apple App Store.
b) Open KTSync and tap on the "Connect" option on the bottom left to view a list of available devices. (Fig. 1)
c) From the device list, select your KDC – ensuring that the serial number displayed in brackets matches the serial number on the back of your KDC. (Fig. 2)
d) Upon successful connection, KTSync will display "Connected" next to the name of your KDC at the top of the application. (Fig. 3)
e) To test your connection, scan any barcode. If the connection is successful, the barcode data will display on the screen. (Fig. 3)

< Fig. 1 >   < Fig. 2 >   < Fig. 3 >

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In Always-pairing mode, an application can connect to a KDC without reading a pairing barcode, so the connection procedure is a little different.

a) In the KTSync app, tap the Connect icon at the bottom left of the app.
b) In KTSync, tap "Start BLE Scanning" in the top right.
c) In KTSync, check the list of found devices.
d) In KTSync, tap the KDC180 listed by serial number in brackets followed by [BLE] that matches the serial number found on the back side of the KDC180. The format will look like this, KDC180[xxxxxx] [BLE], where xxxxxx is the serial number.
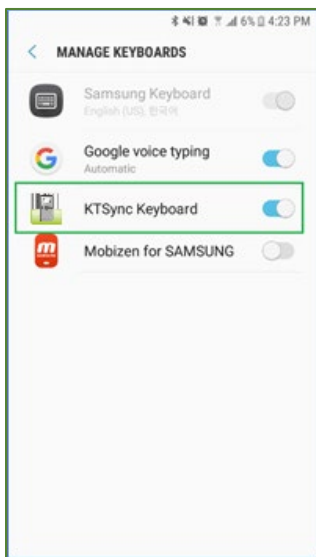e) The KDC180 will beep upon connection and display "Bluetooth Connected" on its screen. Now it is ready to use.

< Fig. 4>

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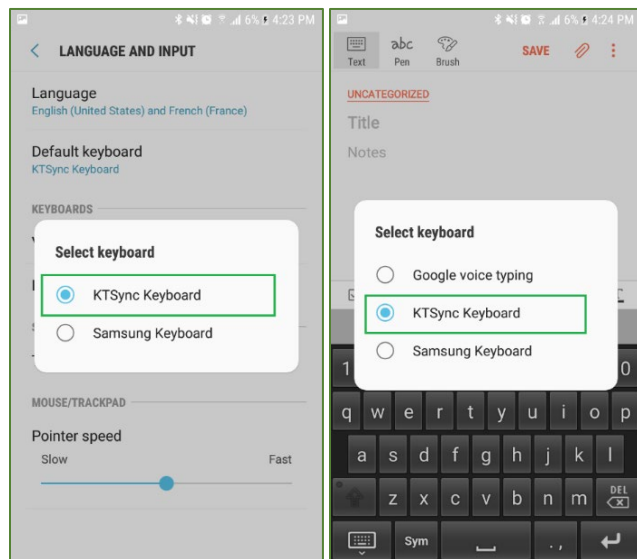## 4.3 Using KTSync Keyboard – Android

Once your KDC is connected to KTSync, you can use your KDC as a keyboard.

a) While KTSync is running in the background, navigate to Settings > Language & Input > Virtual Keyboard > Manage keyboards
b) Tap on "KTSync Keyboard" to enable it.
c) Change "KTSync Keyboard" to the default keyboard. (Fig. 5)

To switch back to the previous keyboard, simply change the default keyboard again. Or, when a text field is selected swipe down from the top of the screen to bring up the notification panel. Select 'choose input method' and you can select the default keyboard from here. (Fig. 6)
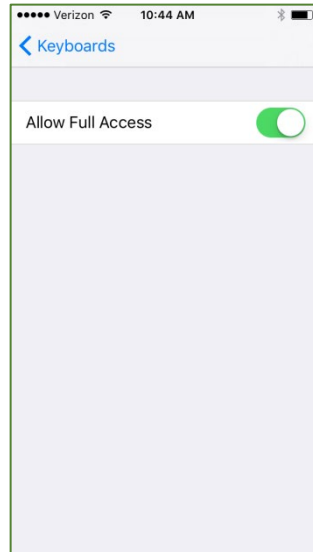
< Fig. 5 >   < Fig. 6 >

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4.4 Using KTSync Keyboard – iOS

Once your KDC is connected to KTSync, you can use your KDC as a keyboard.

a) Navigate to the iPhone/iPad/iPod Settings > General > Keyboard > Keyboards > Add New Keyboard…
   > Select the KTSync keyboard to be added. (Fig. 7)
b) Select the KTSync Keyboard and toggle the switch to Allow Full Access. (Fig. 8)
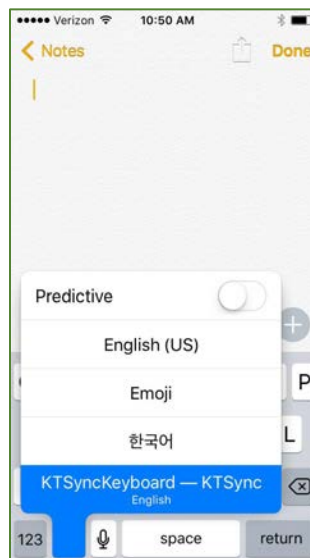
< Fig. 7 >   < Fig. 8 >

c) Open the application you want to scan into and tap on the screen, so the on-screen keyboard appears.
d) Press and hold the globe icon located to the left of the spacebar.
e) Select the KTSync Keyboard and begin scanning. (Fig. 9)

< Fig. 9 >

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

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4.5 Using other Developed Applications with 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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5. Product Specifications

Physical	Design	Companion Bluetooth Barcode Scanner
	Size	Wireless/Keypad: 1.57" x 2.72" x 0.8" (40 mm x 69 mm x 20.3 mm) UHF: 1.57" x 2.72" x 1.1" (40 mm x 69 mm x 27.1 mm)
	Weight	Scanner Only: 2.23 oz (63.2 g) Wireless: 2.30 oz (65.3 g) Keypad: 2.30 oz (65.3 g) UHF: 2.87 oz (81.5 g) UHF Only (Non-scanner): 2.66 oz (75.4 g) Ring Trigger Only: 0.73 oz (20.6 g) Glove Only: 1.76 oz (50 g) Battery Only: 0.76 oz (21.5 g)
Functionality	Supporting OS	Android / iOS / Tizen / Windows / Mac OS X
	Keys	Default: Scan Key, Up Key, Down Key Keypad Module: Scan Key, Up Key, Down Key, Numeric Keys (1, 2,3,4,5,6,7,.8,9,0)
	Buzzer	Yes
	LED Indicator	2 Tri-color Status LED's and 5 Programmable LED's (Red / Amber / Green)
	USB Port	1 Micro USB Port
Memory	RAM	SDRAM 64KB
	ROM	Internal Flash ROM 512KB (256KB for Program, 256KB for User Data)
	Barcode Storage	13,000 Barcodes (EAN-13)
Power	Battery (Standard)	1,010 mAh Lithium-ion
	Charging Solution	USB Connector / Charging Cradle
	Charging Time	4 Hours
Communication	Bluetooth	Bluetooth Low Energy V5.0, HID/SPP
	Micro USB	USB HID USB Serial (Android with OTG cable / Windows)
Barcode Reader	1D/2D Symbology	Yes
	# of scans per charge (1 sec interval)	> 20,000
	# of scans per charge (10 sec interval)	> 10,000
	Scan Range (20mil Code39)	1.73 to 31.5 in (44 to 800 mm)

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	Screen Reading	Yes
	Postal Codes / OCR Passport	Yes / No
RFID Details (Optional)	Supported Standards	IEPC Class1 Gen2, EPC Gen2 V2
	Nominal Read Range	1.5'+ (0.5m+) dependent on tag type and operating environment
	Frequency	US, EU, JP, KR
	Output Power Range	Up to +27dBm
	Read Rate	100 tags per second
	Tag Storage	> 21,000 RFID tags (in case of 12 bytes of EPC Data)
Environment	Drop Spec	5 ft (1.5 m) 6 ft (1.8 m) with a protective boot
	IP Rating	IP65
	Operating Temp.	-44 ˚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	IEC60825-1 (Class II)
	LED Safety	IEC62471:2006
	Regulatory	RED, FCC, KC, TELEC, VCCI, SRRC, RoHS Compliant
Accessories	2-Slot Charging Cradle	Yes
	10-Slot Charging Cradle	Yes
	Finger Trigger Glove	Yes
	Ring Scanner	Yes
	Protective Boot	Yes

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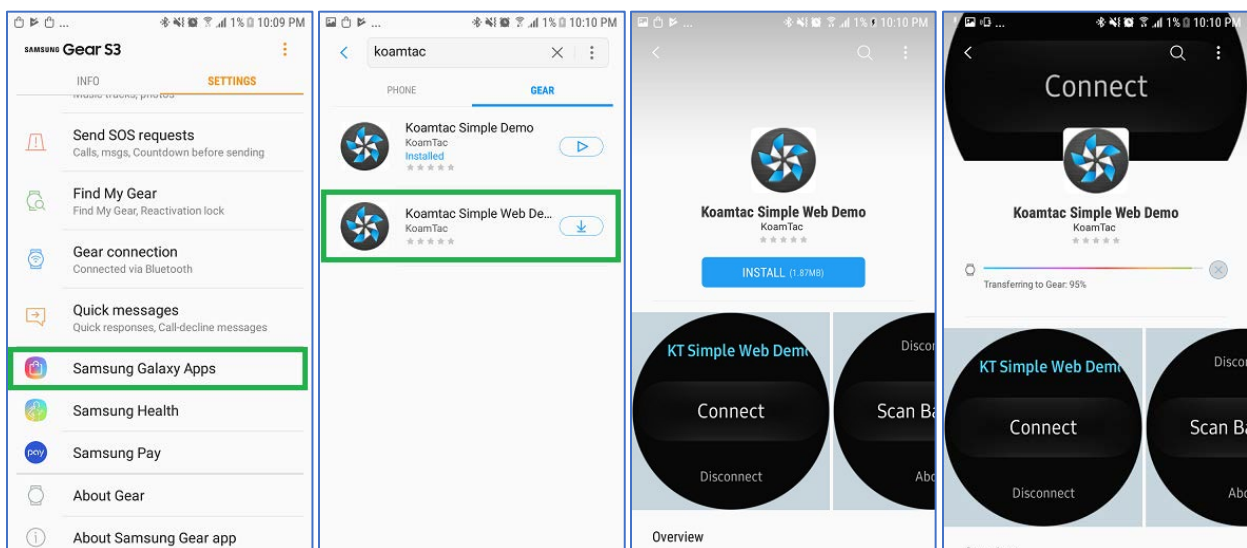## 6. How to Use Tizen WebApp Demo Application (Only for KDC180/280)

KDC180 and KDC280 have BLE (Bluetooth® Low Energy) V5.0 and V4.1 each instead of Bluetooth V2.1 and support the below two profiles:

➢ SPP – It is a KOAMTAC-specific custom profile which provides bi-directional communication in the paired mode.
➢ HID – It is a Bluetooth Low Energy standard profile which supports Human Interface Device like a keyboard or mouse. It is required to be paired first.

To connect with Gear S3 for the current demo application from KOAMTAC, you should use SPP profile because Gear S3 does not support HID:

6.1 Connect the phone to Gear S3 and Install the demo application

➢ Download Galaxy Wearable (Samsung Gear) application from Play Store. (Please make sure your phone supports Galaxy Gear S3.)
➢ Connect the Samsung Gear to your smartphone. (You can refer to the link to learn how to connect: http://www.samsung.com/ca/support/skp/faq/1119975)
➢ On the Gear press the home button and scroll to settings. Scroll down and select Connect to a New Phone. On the phone, open the Samsung Gear application and search for nearby Gear devices. Select your Gear from the list and confirm the passcode on both devices.
➢ From Galaxy Store, search Koamtac apps, which is "**Koamtac Simple Web Demo**" App and install it on Gear S3.

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6.2 Pair/Connect KDC with Gear S3

➢ Put KDC180/KDC280 into SPP mode and start pairing (you can also see Chapter 2 in this document)

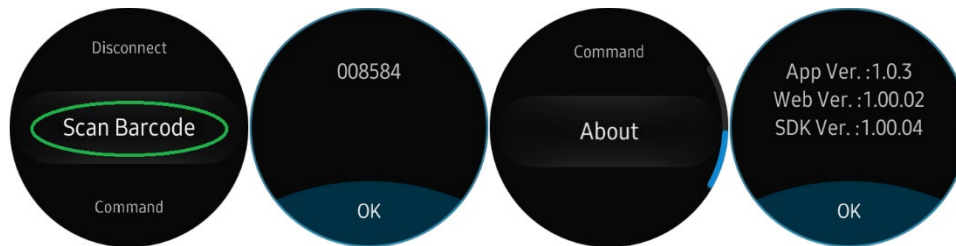| Bluetooth Profile & Pairing |
| --- |
| #3. SPP & Pairing |

➢ Run KTSimpleWebDemo on your Gear S3.

➢ Tap "Connect" and the available devices will be listed on your Gear S3. Tap the KDC from the list of available devices to connect. The number between the brackets refers to the serial number located on the back of the KDC.

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➢ Now you can trigger the KDC scanner via the demo application or the KDC itself. Any scanned bar code will be displayed on the Gear S3. There are also many commands that can be used to view or set the configuration of the KDC.

Disconnect	008584	Command	App Ver. :1.0.3
Scan Barcode		**About**	Web Ver. :1.00.02
			SDK Ver. :1.00.04
Command	OK		OK

➢ If the KDC becomes disconnected or if you disconnect the current KDC, you can reconnect it later by selecting Connect from the Gear S3.

Connect	KT Simple Web Demo
Disconnect	**Connect**
Scan Barcode	Disconnect
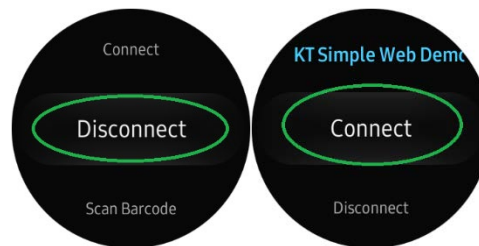
7. Social Distancing Feature

The COVID-19 pandemic has added a new challenge to every workplace - warehouses, manufacturing lines, and even retail store floors - the need to maintain distance between people for their health and safety. Reopening your business is already an undertaking but ensuring social distance among your workers is made easy with the KOAMTAC social distancing feature.

Whether you're a small or enterprise business, the KOAMTAC social distancing feature works with the technology and systems you already have in place so you, and your workers, can have peace-of-mind as you adjust to the new normal.

➢ Supported on all Bluetooth Low Energy (BLE) 5.0 KDC devices.
➢ For more on the social distancing feature, please watch: https://youtu.be/m4Manx9vK68
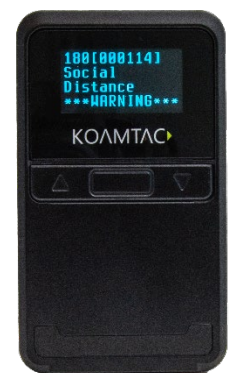
There are three ways to enable and control the settings for the social distancing feature:
1. Enable via the KDC menu
2. Scan the special Social Distance barcodes that correspond with the settings you wish to enable
3. Enable via the KTSync application

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7.1 Social Distancing Feature Parameters

The following parameters can be changed:

- ➢ **Distance**: Set the acceptable social distance range with values between 1 to 10 meters (Default: Disabled).
- ➢ **Host Alert**: This setting will forward distance alerts to the connected host device (Default: Disabled).
- ➢ **KDC Alert**: This setting allows the user to enable/disable an audible **beep** sound (Default: Enabled), **vibration** (Default: Disabled), and **data storage** (Default: Disabled) settings for distance violations on the KDC.
- ➢ **Security Key**: Choose between fixed key or a custom key. Only KDC devices using the same key will be able to detect and report the distance between devices. If fixed key is selected, the KDC will use a predefined key. If you prefer to set your own custom key, this action can only be performed though using KTSync (Default: Fixed Key).

7.2 Enabling the Social Distancing Feature via the KDC Menu

If you prefer to enable the social distancing feature by navigating through the KDC menu, then follow the instructions below:

a) From **KDC BLE Config** menu, select **Social Dist.** to configure
b) Set the **Distance** from 1m to 10m
c) Set the **Host Alert** to enable/disable
d) Set the **KDC Alert**: Beep, Vibrator, and Data Store to desired settings
e) Set the **Security Key**: Fixed Key or Custom Key

7.3 Enabling the Social Distancing Feature via Social Distance Barcodes

If you prefer to enable the social distancing feature via special barcodes, scan the special social distance barcodes that correspond with the settings you wish to enable:

Social Distance Range	
Disable	1.0M
₮MKDC6z100.	₮MKDC6z10A.
2.0M	3.0M
₮MKDC6z114.	₮MKDC6z11E.

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4.0M	5.0M
₸MKDC6z128.	₸MKDC6z132.
7.0M	10.0M
₸MKDC6z146.	₸MKDC6z164.

Host Alert	
Enable	Disable
₸MKDC6z201.	₸MKDC6z200.

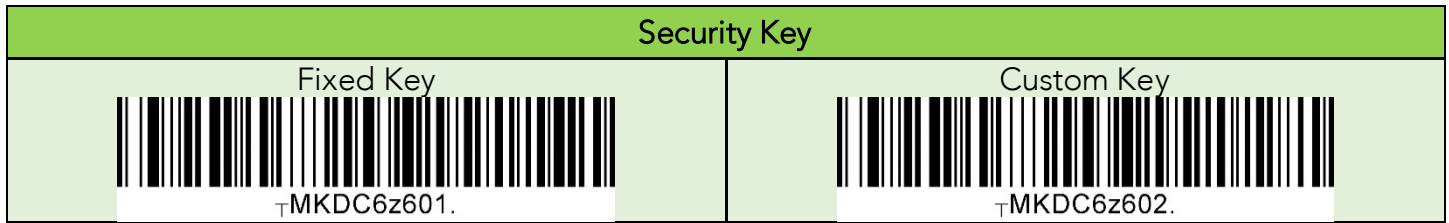| KDC Alert	
Beep Enable	Beep Disable
₸MKDC6z301.	₸MKDC6z300.
Vibrate Enable	Vibrate Disable
₸MKDC6z401.	₸MKDC6z400.
Store Data Enable	Store Data Disable
₸MKDC6z501.	₸MKDC6z500.

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Security Key	
Fixed Key	**Custom Key**
 ᴛMKDC6z601.	 ᴛMKDC6z602.

Disable All
 ᴛMKDC6z600.

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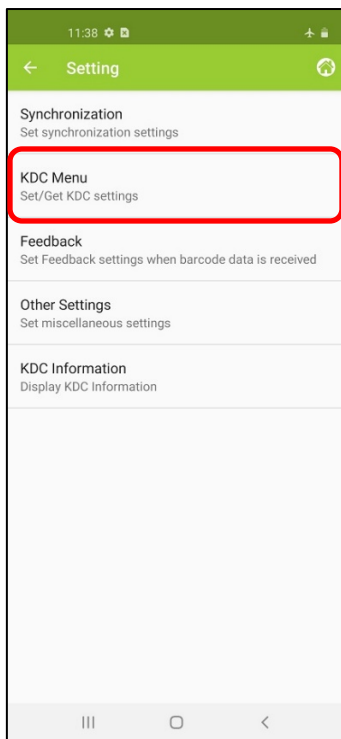
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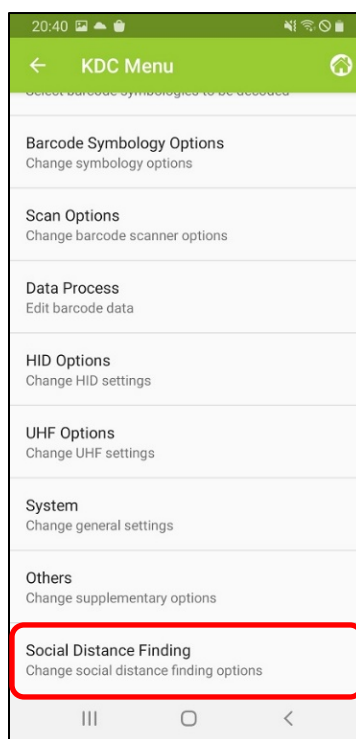## 7.4 Enabling the Social Distancing Feature via the KTSync application

The social distancing feature can also be configured in the KTSync application.

* Note: This menu is only shown when KTSync is connected to a KDC BLE device running firmware version 050025 or higher.
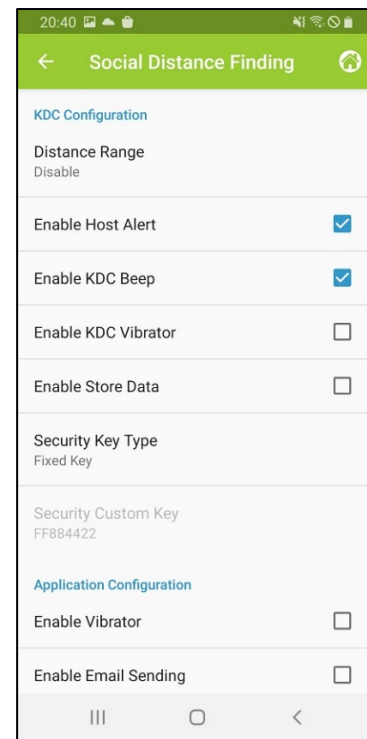
a) Open KTSync and tap the **Setting** icon
b) Select **KDC Menu** (Fig. 10)
c) Select **Social Distance Finding** (Fig. 11)
d) Choose your Social Distance settings. Settings listed in the KDC Configuration section are the same settings available to you as if you were setting parameters on the KDC itself. These settings will be saved when you exit this screen. (Fig. 12)
e) Additional Application Configuration settings can be set on this screen as well. (Fig. 12)
   - *Enable Vibrator*: If enabled, the host device vibrates when receiving social distance alert data.
   - *Enable Email Sending*: If enabled, email application is launched instead of a social distance data pop up when receiving social distance alert data.
   - *Email Address:* Register and email address to send social alert events.

| < Fig. 10 > | < Fig. 11 > | < Fig. 12 > |

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7.5   Examples of Social Distance Alerts & Social Distance Alert Data

Whenever the KDC is connected, the KDC is sending social distance alert data to host device if **host alert** is enabled and another KDC is found within the selected **distance range**.

When a social distance violation occurs, you may receive these alerts, depending on settings:
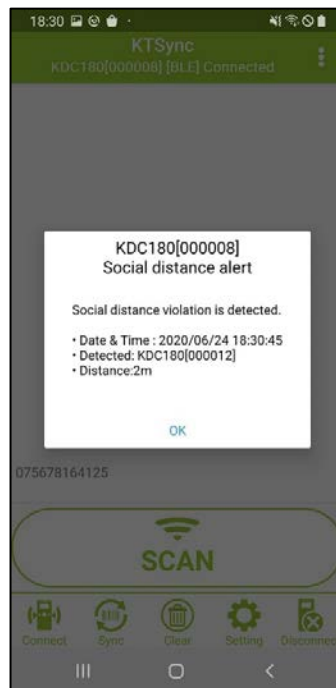
1. Social distance warning on KDC, showing your KDC serial number accompanied by **beep/vibrate** if selected. (Fig. 13)
2. Social distance pop-up in KTSync showing your KDC serial number, the date & time of the violation, the serial number of the other detected KDC, and the distance if using the **host alert** setting. (Fig. 14)
3. Social distance email showing your KDC serial number, the date & time of the violation, the serial number of the other detected KDC, and the distance if using the **enable email sending** setting. (Fig. 15)

*Note: When reconnected, the KDC will send social distance data to the host device even if the same KDC is found within distance.

*Note: Only one social distance data alert is sent to the host device when multiple KDC devices are detected if social alert is already being displayed as a pop-up or email application is already launched.

| < Fig. 13 > | < Fig. 14 > | < Fig. 15 > |

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