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KOAMTAC

# Quick Guide

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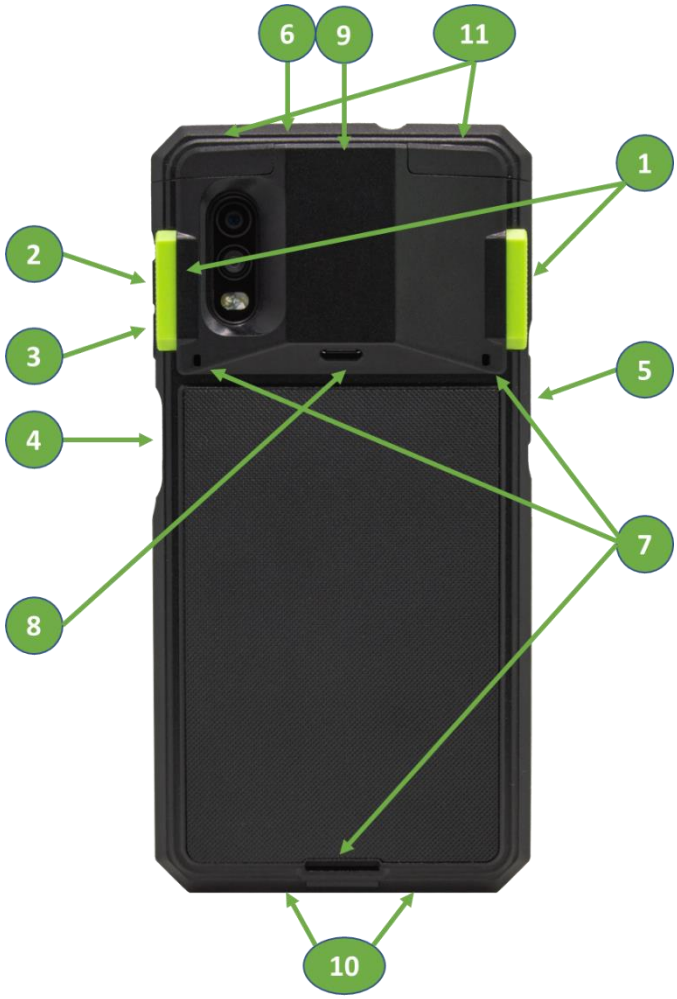
See Reference Manual for more detailed information
Visit store.koamtac.com to purchase additional SKXPro and accessories.

# 1. Product Introduction

The SKXPro is a 2D Imager Barcode Data Scanning Sled for the Samsung Galaxy XCover Pro. It is connected to the XCover Pro via the USB Type C port at the bottom of the SKXPro. Data between the SKXPro and XCover Pro is transferred through this physical connection, not by Bluetooth.

## 1.1 SKXPro Diagram

① Left & Right Scanning Keys (for SKXPro)
② VOLUME UP Key (for XCover Pro)
③ VOLUME DOWN Key (for XCover Pro)
④ SIDE Key (for XCover Pro)
⑤ XCover Key (for XCover Pro)
⑥ Top Key (for XCover Pro)
⑦ Hand strap Holes (for SKXPro)
⑧ USB Port to access XCover Pro from PC
⑨ Barcode Scan Window (for SKXPro)
⑩ Charging Pogo Pins (to charge XCover Pro)
⑪ Screw Holes (for SKXPro)




## 1.2 How to Turn On and Off

Refer to the figure in section 1.1 to locate the keys.

SKXPro does not have its own battery but rather uses power from the XCover Pro's battery. The SKXPro works only when the XCover Pro is mounted into SKXPro Scanning Sled.

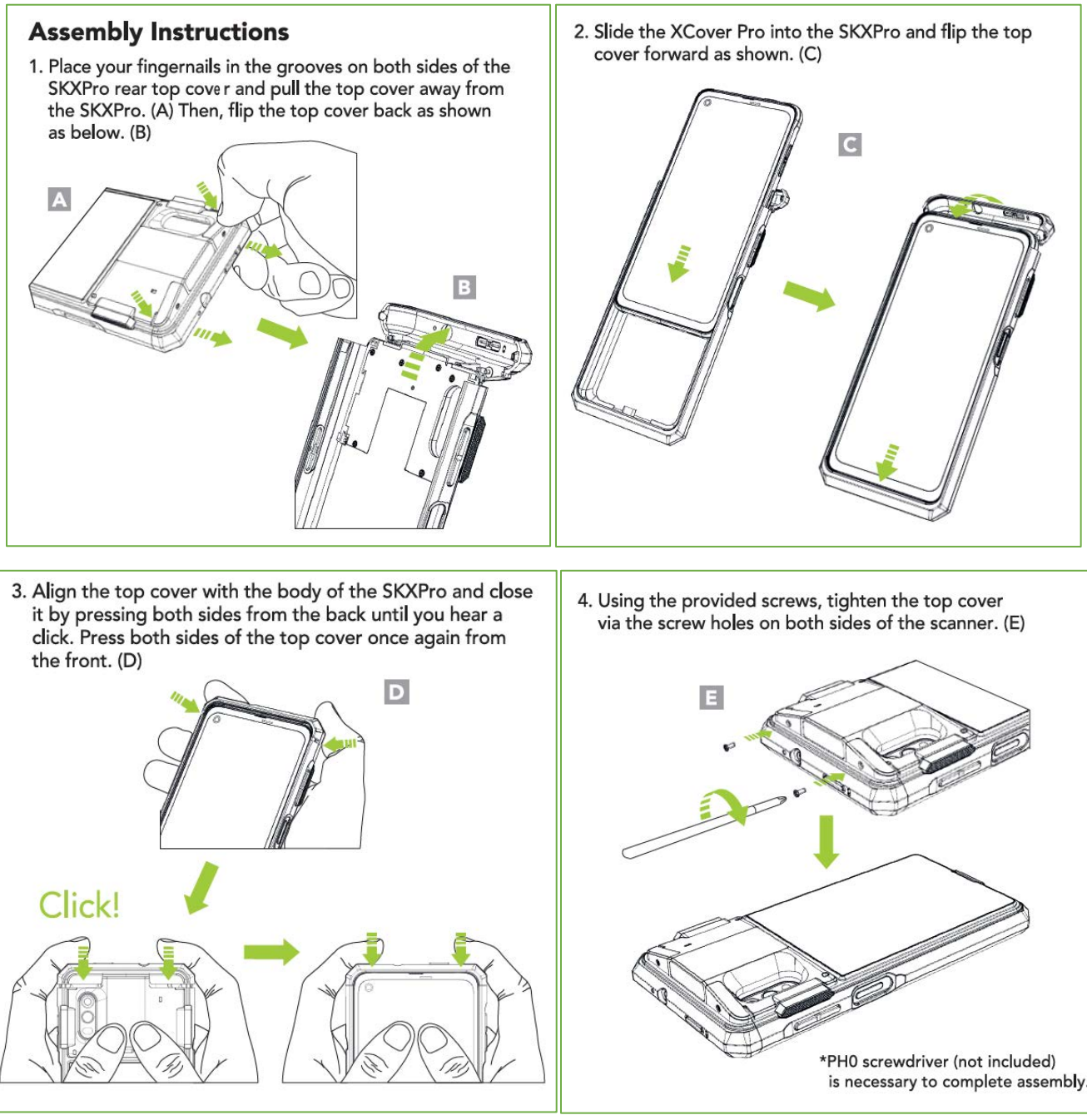
To turn on XCover Pro, press and hold the SIDE key for 3 seconds.

To turn off XCover Pro, press and hold the VOLUME DOWN key and SIDE key at the same time for 3 seconds.

# 2. Assembly Manual

## 2.1 How to Assemble (Mount) the XCover Pro into SKXPro

Make sure that the phone is off before assembly.

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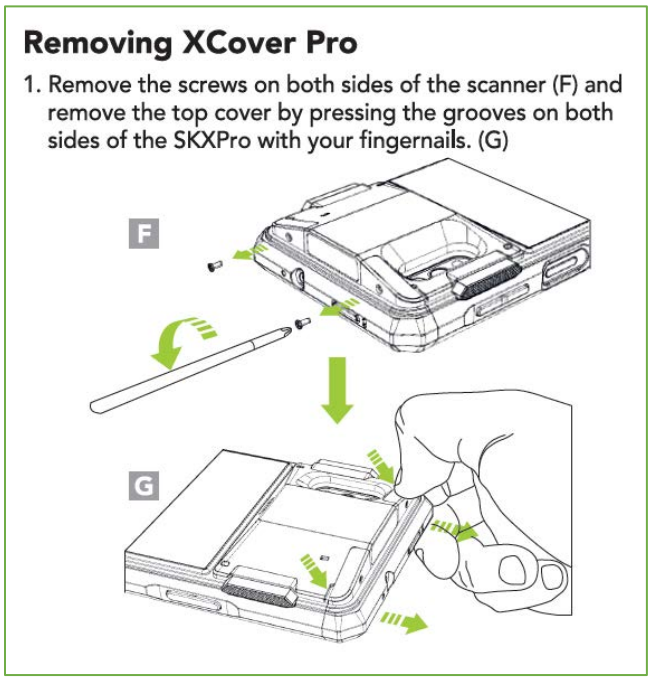
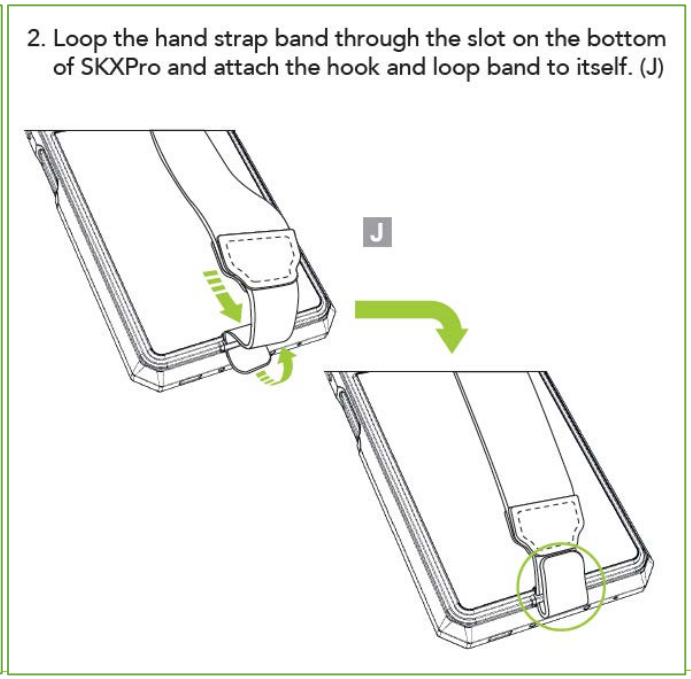
## 2.2 How to Remove the XCover Pro from SKXPro

Make sure that the phone is off before removal.





## 2.3 How to Assemble the Hand Strap into SKXPro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# 3. Connectivity

## 3.1 Connection Between XCover Pro and SKXPro

Once the XCover Pro is assembled with the SKXPro, the two will be connected via USB and the connectivity will be HID connectivity by default. This allows the SKXPro to function as a keyboard.

The SKXPro is also able to utilize Serial connectivity. Please see the section below for a brief explanation of the difference between each connectivity mode.

a. HID **Connectivity**: Allows one-way USB communication. The SKXPro only transmits data to the host device, XCover Pro.
b. SERIAL **Connectivity**: Allows two-way USB communication. The SKXPro transmits data to the XCover Pro application and the XCover Pro application can transmit data/control back to the SKXPro.

**Note:** HID inputs data directly into an application, while SERIAL requires KTSync or custom application developed using 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/

## 3.2 Connection Between XCover Pro and PC

If you want to access the XCover Pro while attached to the SKXPro, you can use USB port at the back of SKXPro. (see item ⑧ from the diagram at the chapter 1.1)

In order the XCover Pro phone to connect to the PC, use this barcode:

Phone to PC Connection

┬MKDCkDc@PcToPhone.

In order the XCover Pro phone to connect to the SKXPro (Going back to the default), use this barcode:

Phone to SKXPro Connection

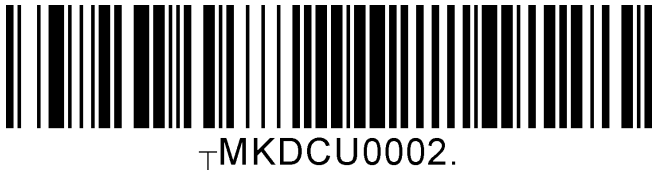
TMKDCkDc@PhoneToSam.

# 4. Usage

## 4.1 Using Keyboard Wedge (HID Keyboard): HID Mode (DEFAULT)

This option is only available when SKXPro is set to HID connectivity. HID mode is the default mode of the SKXPro. Once XCover Pro phone is mounted into SKXPro, SKXPro automatically works as a keyboard without any further setup. If you open any application with a text field and tap on the text field, then you can scan any barcode into the text field. By default, it is HID mode, but to change to HID mode from SERIAL mode, scan this barcode:

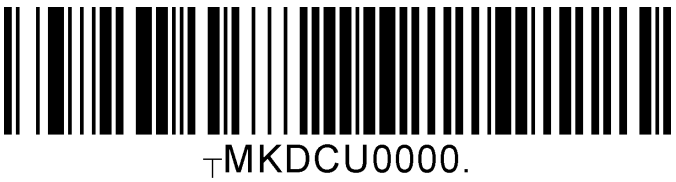
HID Mode (Keyboard Mode)



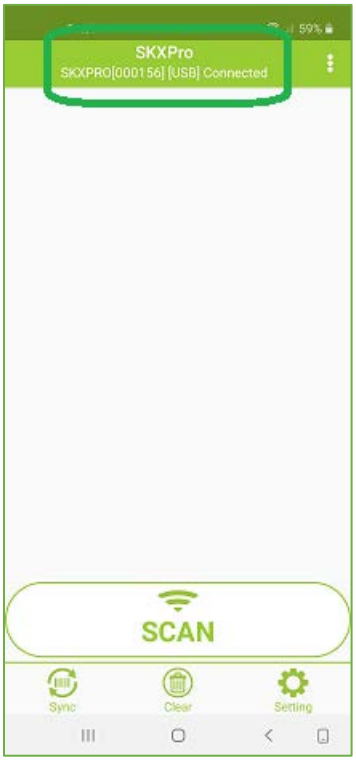

## 4.2 Using KTSync SKXPro: SERIAL Mode

The KTSync SKXPro app is a program which communicates with the SKXPro via Serial connection. It enables users to read and store data, supports keyboard wedging, and also contains configuration options for the SKXPro. Download KTSync SKXPro app from the Google Play Store. You can use KTSync SKXPro app to utilize your SKXPro alone or with a native application. This is only available using a USB connection with SERIAL. To change to SERIAL mode, scan this barcode:

SERIAL Mode (SKX Application Mode)



a) Download and install KTSync SKXPro app from the Google Play Store.
b) Open KTSync SKXPro app then it will automatically connect to SKXPro. SKXPro will display "Connected" next to the name of your SKXPro at the top of the application. (Fig. 1)
c) To test your connection, scan any barcode. If the connection is successful, the barcode data will display on the screen. (Fig. 2)




< Fig. 1 >

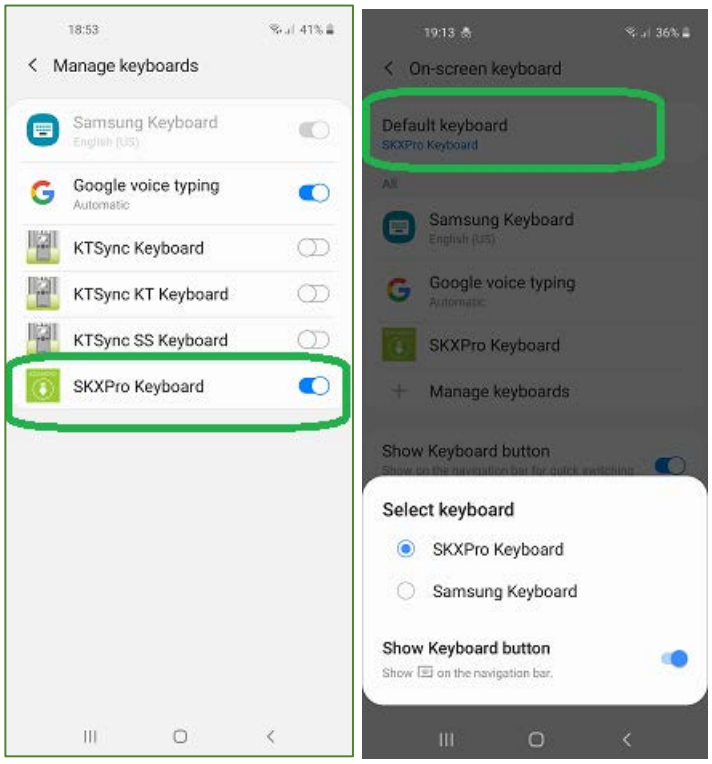

< Fig. 2 >

## 4.3 Using SKXPro Keyboard – Android

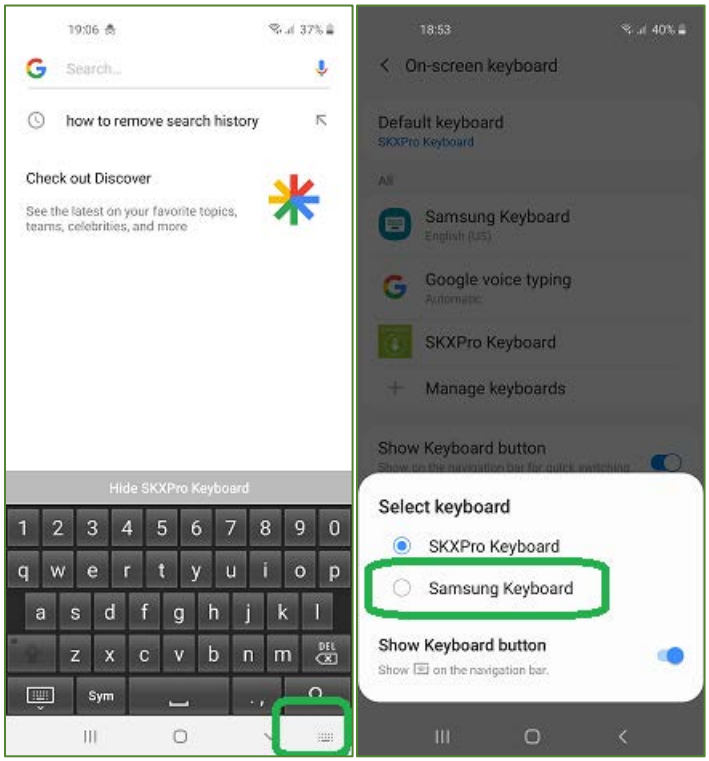
You can set up SKXPro as a keyboard.

a) While KTSync SKXPro app is running in the background, navigate to Settings → General management → Language and input → On-screen keyboard → Manage keyboards.
b) Tap on "KTSync SKXPro Keyboard" to enable it.
c) Change "KTSync SKXPro 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, tap on the keyboard button from the keyboard and select the default keyboard. (Fig. 6)




< Fig. 5 >




< Fig. 6 >

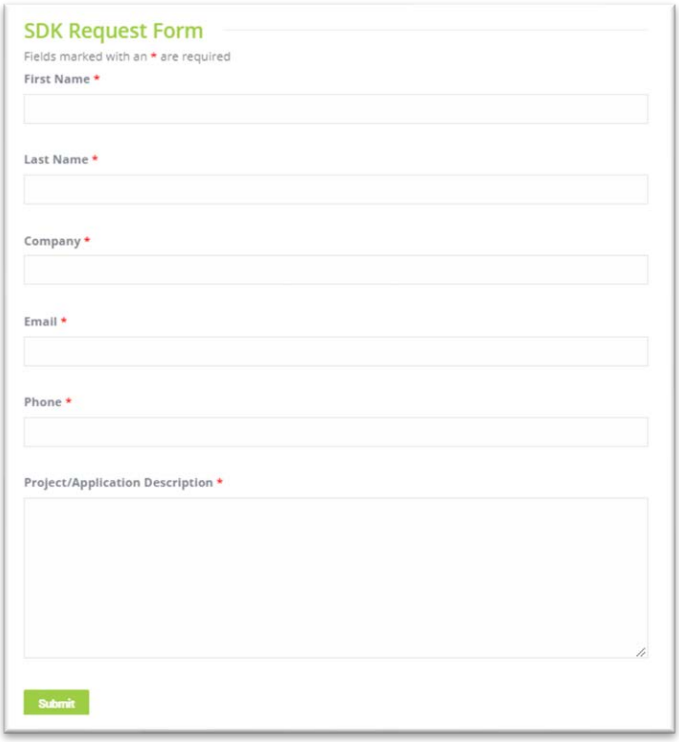
Note: The SKXPro must be connected to KTSync SKXPro app and the KTSync SKXPro keyboard must be selected for this to work.

## 4.4 Using Other Developed Applications with SDK – Android

A Software Development Kit (SDK) for Android is available to all KOAMTAC customers to ensure smooth development of applications that work seamlessly with a SKXPro 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.

# 5. SKXPro Demo: Scan & Search

## 5.1 Purpose

When you scan any barcode of any product or any logistics tracking, the selected retail/logistics website pops up and shows the searched result or the tracking information.

## 5.2 How to Test

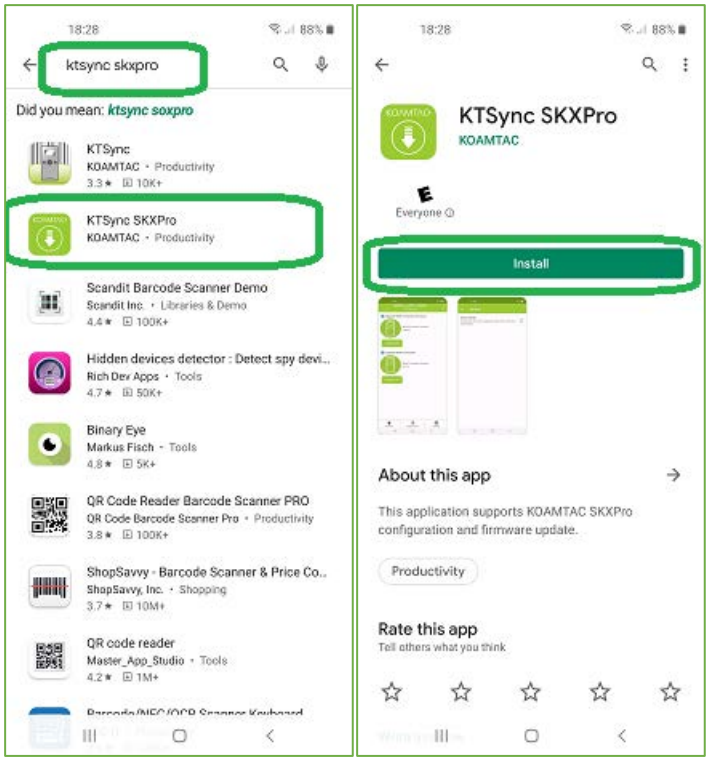
**Before Demo Instructions**

1. By default, the SKXPro is in HID keyboard mode. In this mode, you can scan a barcode into any text field of any application.
2. To use this demo, change the mode to Serial Node, (a.k.a. KTSync/Download Mode) by scanning the special barcode below first and wait for 3 seconds.

USB Serial Mode (KTSync Mode/Download Mode)

┬MKDCU0000.

3. Now, go to Google Play Store and search for "KTSync SKXPro". (Fig7)
4. Download and install KTSync SKXPro app from Play Store. (Fig. 8)




< Fig. 7 >

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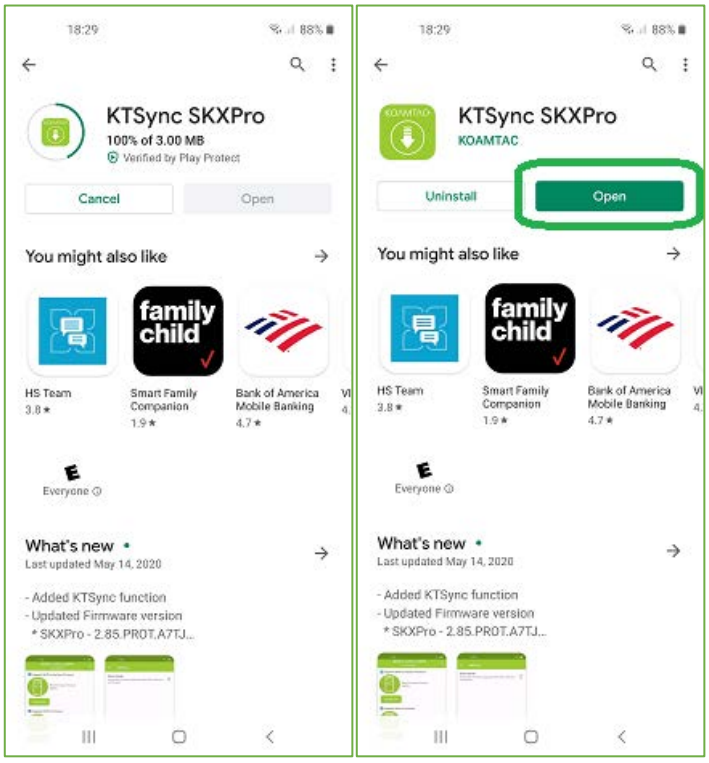
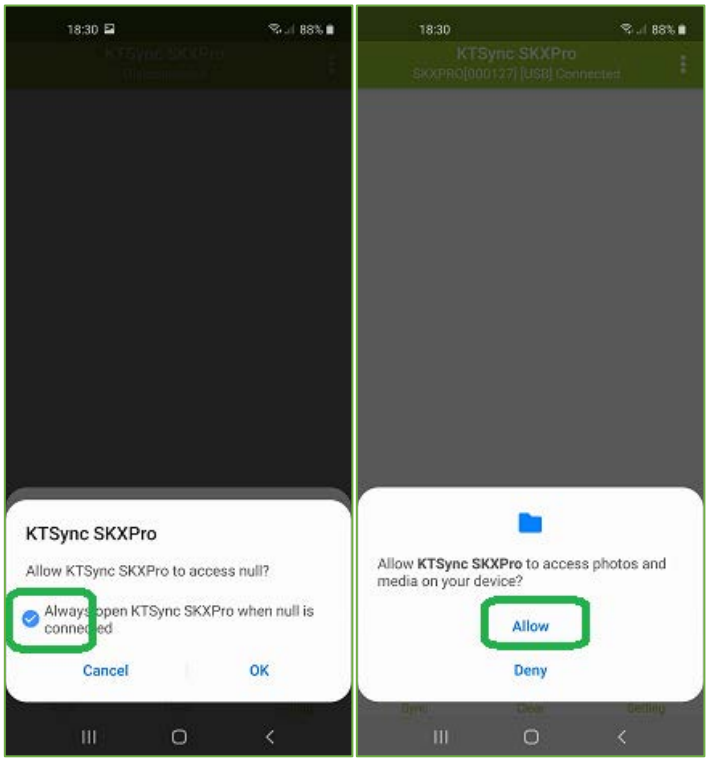



< Fig. 8 >

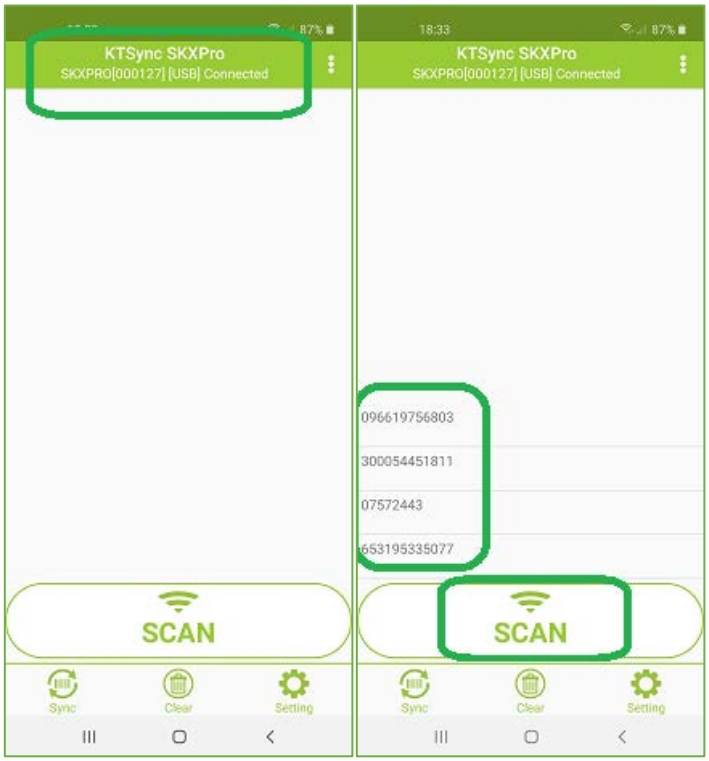
5. When you open or run KTSync SKXPro app for the first time on your phone, there are several permission popups, which require you to allow them all. This is a one-time setting from the first launch. (Fig. 9)




< Fig. 9 >

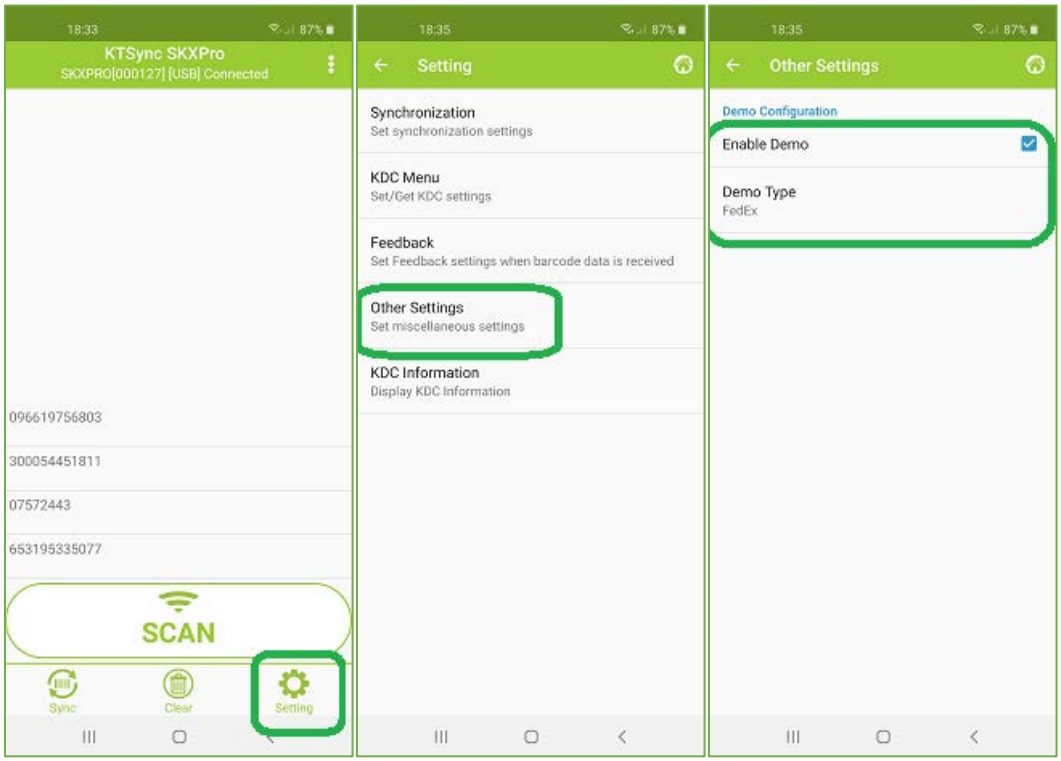
### Demo Instructions

6. The KTSync SKXPro app on XCover Pro will automatically connect to the SKXPro SmartSled when you launch it. You will see the connected message on the top, you are able to scan it. (Fig. 10)
7. For testing purpose, scan any barcode with the SCAN button on the app or with the SCAN button on the left/right side of the SKXPro and see if it is displayed on the KTSync SKXPro display screen. (Fig. 11)

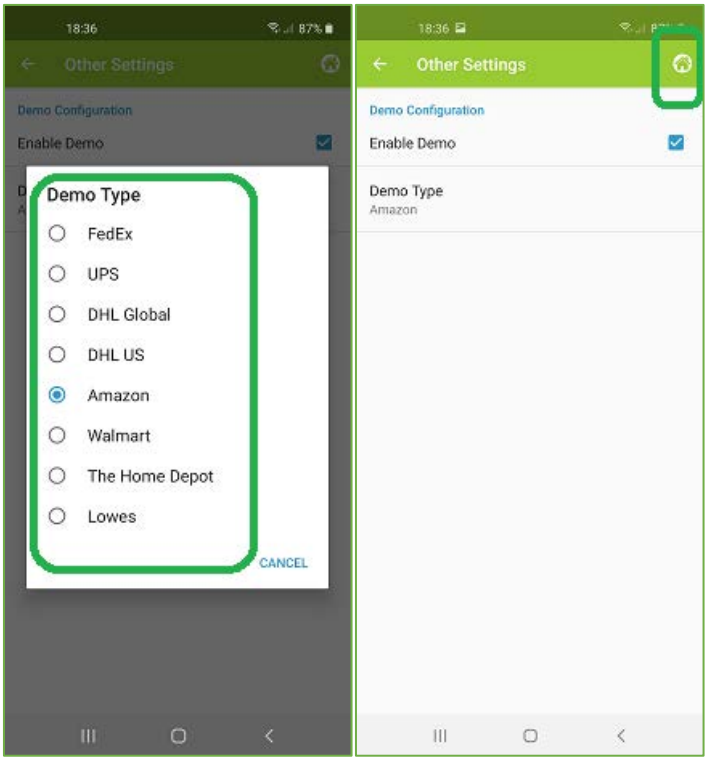



< Fig. 10 > < Fig. 11>

8. Enable the demo mode first by enabling demo (Setting → Other Settings → Check "Enable Demo") (Fig.12)
9. And then select the demo type (demo store): FedEx, UPS, DHL Global, DHL US, Amazon, Walmart, The Home Depot, Lowes. (Settings Other Settings Demo Type) And tap "Home" icon at the right upper corner. (Fig. 13)




< Fig. 12>




< Fig. 13>

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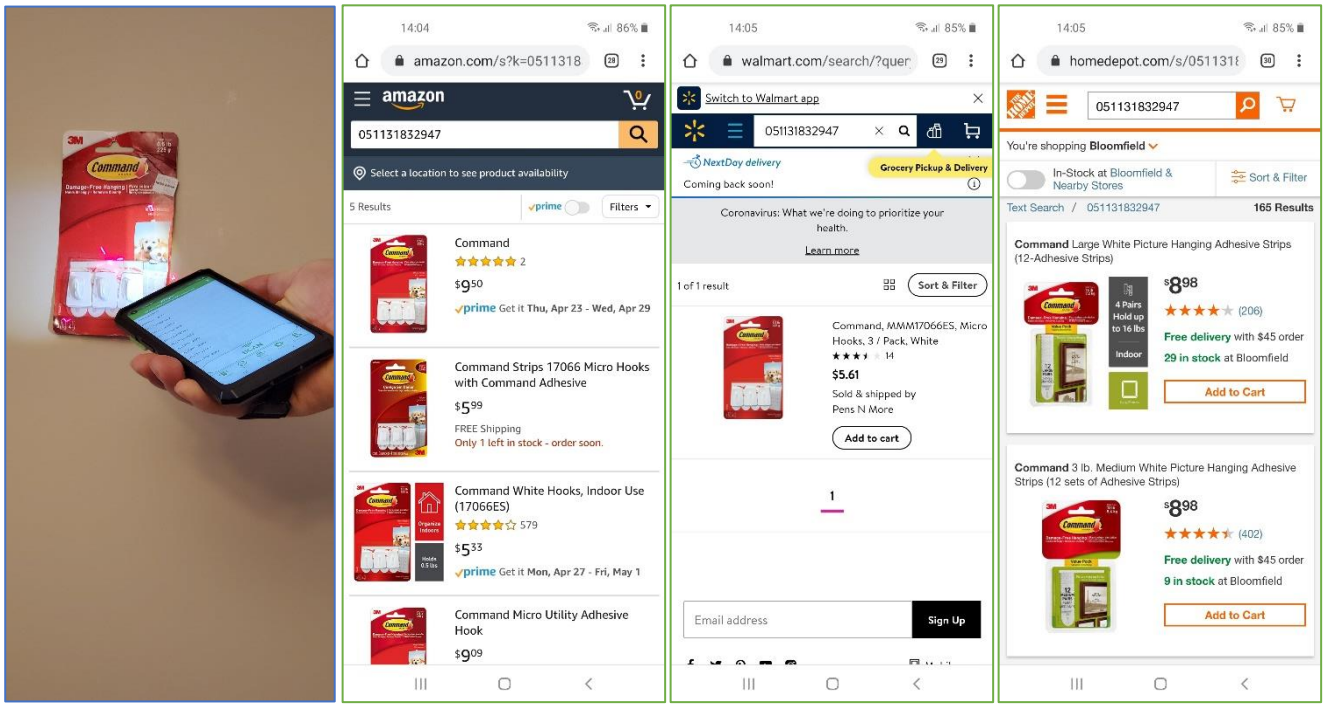
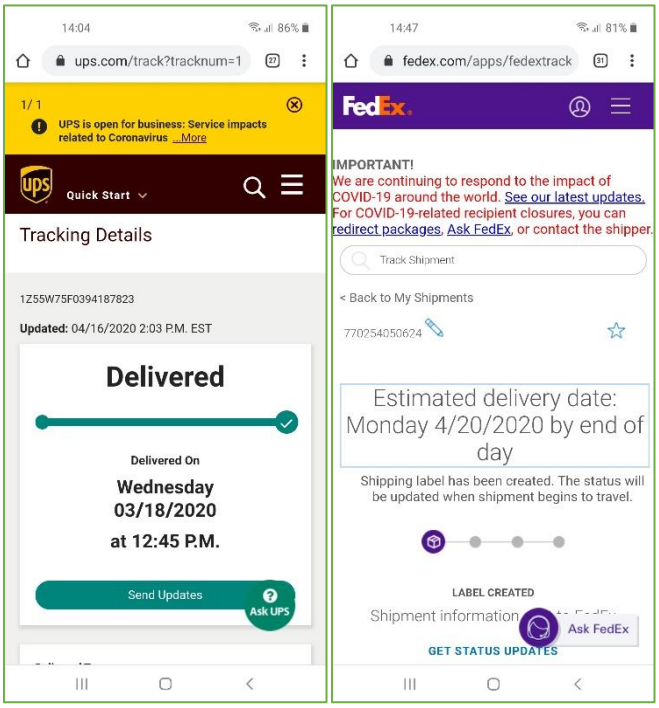
10. Now scan any barcode then the selected store website will pop up with the searched result for the barcode you just scanned, as shown below: (Fig. 14)




< Fig. 14>

## Demo Instructions

11. To finish the demo, close KTSync SKXPro app. And go back to the normal HID keyboard mode by scanning this special barcode.

USB HID Mode (HID Keyboard Mode)

┬MKDCU0002.

## 5.3 Sample Barcodes for Demo Testing

UPS



FedEx



Amazon/Walmart/Home Depot

## 6. Product Specifications

| | | |
|---|---|---|
| Physical | Design | Integrated Sled |
| | Size | 3.25" x 6.61" x 0.86"<br>(82.6 mm x 168 mm x 21.9 mm) |
| | Weight | 2.4 oz (67 g) without a hand strap<br>Hand strap only: 0.16 oz (4.5 g) |
| Functionality | Supporting OS | Android |
| | Keys | Scan Key (2 keys from SKXPro) + Volume UP Key, Volume DOWN Key, SIDE Key, TOP Key (from XCover Pro) |
| | Buzzer | Yes |
| | LED Indicator | No LED |
| | USB Port | 1 Type C USB Port (Access to XCover Pro) |
| Memory | RAM | SDRAM 64KB |
| | ROM | 512KB (for Program) |
| | Barcode Storage | N/A |
| Power | Battery (Standard) | No Internal Battery |
| | Battery (Extended) | 2,000 mAh (optional companion)<br>6,000 mAh with Pistol Grip (optional companion) |
| | Charging Solution | Pogo Pin Charging Cradle |
| | Charging Time | Quick Charging(9V) w/ KOAMTAC Adaptor: 2 Hours<br>Normal Charging(5V) w/ 3rd Party Adaptor: 3.5Hours<br>USB Type C (Phone/Cradle): TBD<br>Wireless Charging: TBD |
| Communication | Bluetooth | No Bluetooth |
| | USB | USB Serial / USB HID |
| Barcode Reader | 1D/2D Symbology | Yes (N6703 with 1280x800) |
| | Motion Tolerance | 6m/sec |
| | Aimer | Red Laser |
| | Illumination | White |
| | Scan Range | 1.57" to 20.3" (40 to 517 mm) for 10mil Code39<br>1.73' to 31.5" (44 to 800 mm) for 20mil Code39 |
| | Screen Reading | Yes |
| | Postal Codes / OCR Passport | Yes / No |
| UHF Reader (Optional) | Supported Standards | IEPC Class1 Gen2, EPC Gen2 V2 |
| | Nominal Read Range | 6'+ (1.8 m+) for 0.5W Reader<br>20'+ (6 m+) for 1.0W Reader<br>dependent on tag type and operating environment |

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| | | |
|---|---|---|
| | Frequency | US, EU, JP, KR |
| | Output Power Range | Up to +27dBm for 0.5W Reader<br>Up to +30dBm for 1.0W Reader |
| | Read Rate | 100 tags per second for 0.5W Reader<br>200 tags per second for 1.0W Reader |
| | Tag Storage | N/A |
| Environment | Drop Spec | 5 ft (1.5 m) |
| | IP Rating | IP67 (SKXPro)<br>IP65 (SKXPro + Companions)<br>IP64 (SKXPro + 1.0W Reader/Pistol Grip) |
| | Operating Temp. | -22˚F to 140˚F (-30˚C to 60˚C) |
| | Storage Temp. | -40˚F to 158˚F (-40˚C to 70˚C) |
| | Humidity Spec | 5% ~ 95% (non-condensing) |
| Regulatory Conformance | Laser Safety | IEC60825-1 (Class II) |
| | LED Safety | IEC62471:2006 |
| | Regulatory | R&TTE, FCC, KC, TELEC, VCCI, SRRC, RoHS Compliant |
| Accessories | 1-Slot Charging Cradle | Yes |
| | 5-Slot Charging Cradle | Yes |
| | Hand strap | Yes |

# 7. Charging Accessories and Companions

## 7.1 Charging Accessories

1-slot charging cradle and 5-slot charging cradle are available.

## 7.2 Companions

- 0.5W UHF Reader Companion
- 1.0W UHF Reader Companion
- Extended Battery Companion
- Pistol Grip Companion with or without spare 6,000mAh battery