Bluetooth Barcode Scanner

Last Barcode

ABC-1234

1234 5670

Connected to:

DESKTOP

Bluetooth HID
Barcode Scanner

Bluetooth Barcode Scanner   Manual

Table of Content

Bluetooth Barcode Scanner　　　Manual

Thank you for choosing our Bluetooth Barcode Scanner. This manual provides comprehensive instructions on using the app's features to their fullest potential.

Our app boasts a state-of-the-art scan engine with low-light support, allowing you to scan barcodes with ease even in sub-optimal lighting conditions. Additionally, you can use the offline mode to scan barcodes without active Bluetooth connection and transfer the stored data to your PC at a later time. You can also annotate Barcodes with prefix and suffix. Barcodes are transmitted to the host system as virtual keyboard HID events.

We are proud to offer an app that can replace even some of the most expensive dedicated Bluetooth barcode scanners on the market. However, please note that due to vendor specific implementations, some devices may not support all Bluetooth capabilities offered by the Android API.

Features:

- No additional software required

- Support for Windows and Mac OS

- State of the art scan engine

- Zoom in for scanning over distance

- Low-light support

- Offline Mode: Scan now – transfer to PC later

- Custom prefix/suffix annotations

- Keyboard wedge mode via Bluetooth HID

- Advanced features even absent on some dedicated products.

Bluetooth Barcode Scanner   Manual

Quick Start: Pairing PC requirements

Prerequisite: Enable the Bluetooth visibility of your PC.
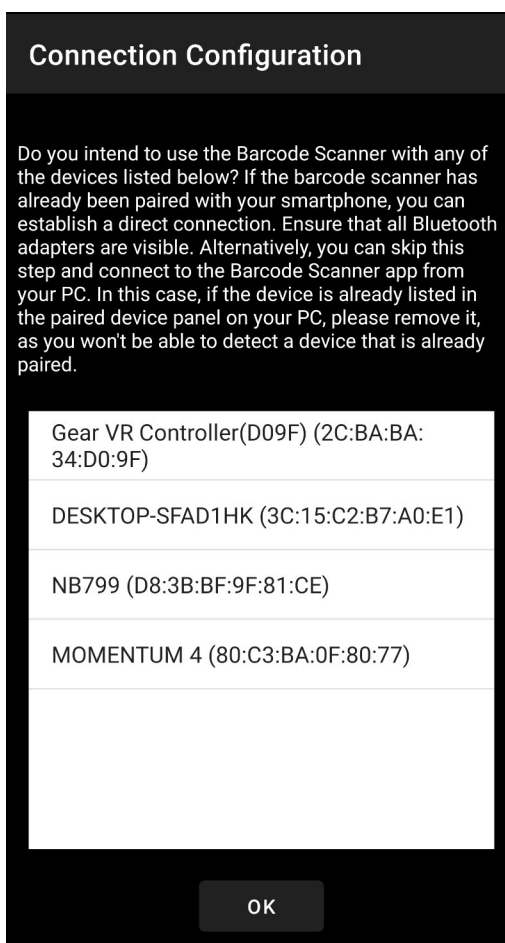The app must be capable to read the remote Bluetooth device's name. **Windows 10** requires the following checkbox to be enabled. Otherwise another Bluetooth connection attempt will be rejected even after a successful initial pairing process. It can be unchecked after a successful consecutive connection.
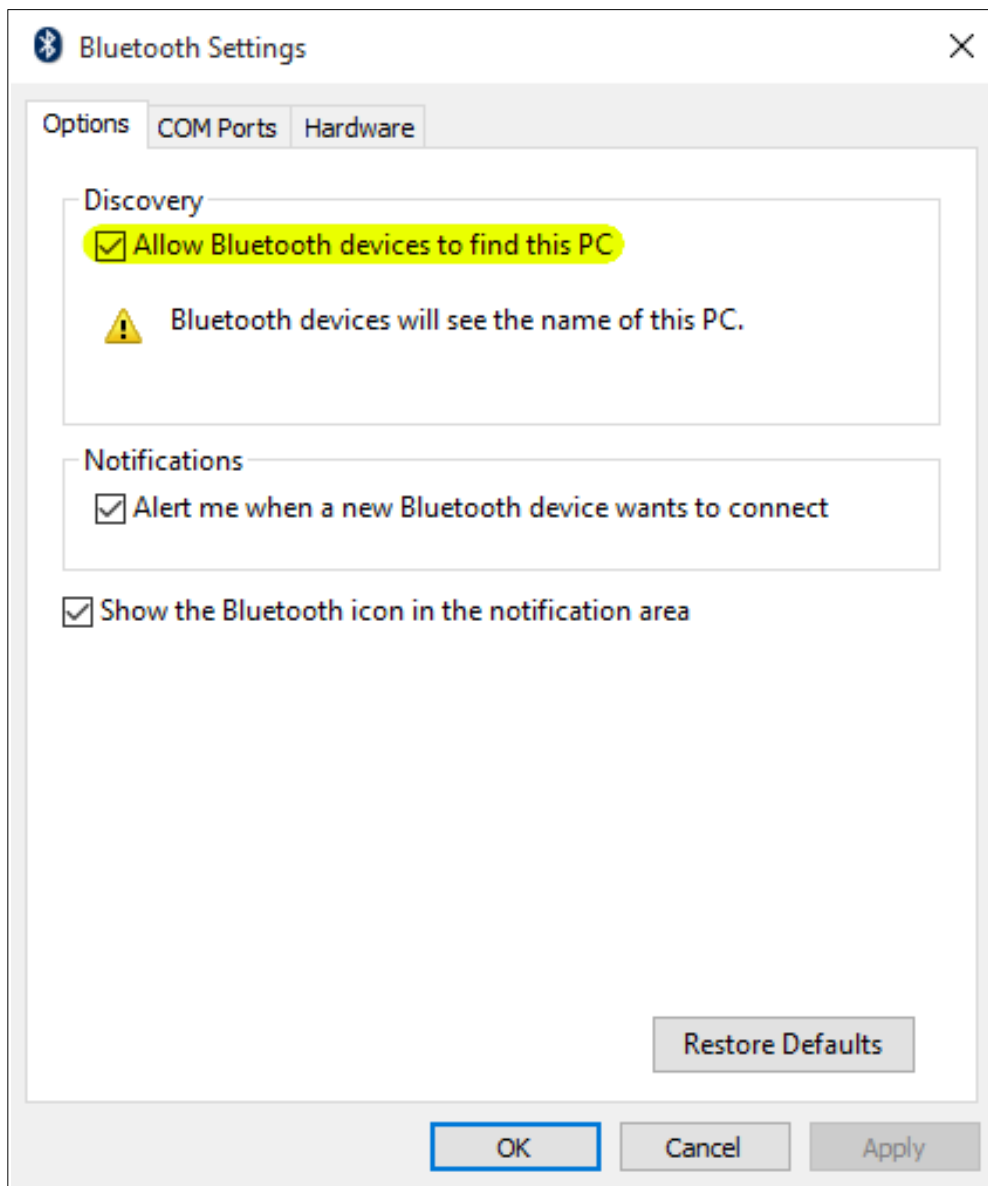
Please remove any previous BT device entries of the phone/tablet running the Barcode Scanner app on your PC in case the device has been paired before.

Bluetooth Barcode Scanner   Manual

Quick Start: Pairing

On the first start of the app - there are basically two separate ways how to connect the Barcode Scanner to a PC. If you have already paired smartphone and PC you can simply select the PC name in the initial Connection Configuration dialog screen.

Connection Configuration

Do you intend to use the Barcode Scanner with any of the devices listed below? If the barcode scanner has already been paired with your smartphone, you can establish a direct connection. Ensure that all Bluetooth adapters are visible. Alternatively, you can skip this step and connect to the Barcode Scanner app from your PC. In this case, if the device is already listed in the paired device panel on your PC, please remove it, as you won't be able to detect a device that is already paired.

> Gear VR Controller(D09F) (2C:BA:BA:34:D0:9F)
>
> DESKTOP-SFAD1HK (3C:15:C2:B7:A0:E1)
>
> NB799 (D8:3B:BF:9F:81:CE)
>
> MOMENTUM 4 (80:C3:BA:0F:80:77)

OK

The second method is connecting from your PC by scanning the available bluetooth devices.

The phone will usually demand to enable visibility in the Bluetooth network before. You can only discover the phone if it is not already paired. In this case you have to delete the entry in the paired bluetooth device list of windows. You should see either a "Barcode Scanner" or the bluetooth device name of your phone/tablet.

Selecting the device should bring up the pairing dialog. Here you need to confirm the pin on PC and on the phone.

If everything went fine you should see a connection symbol and the name of your PC on the apps main screen.

Bluetooth Barcode Scanner   Manual
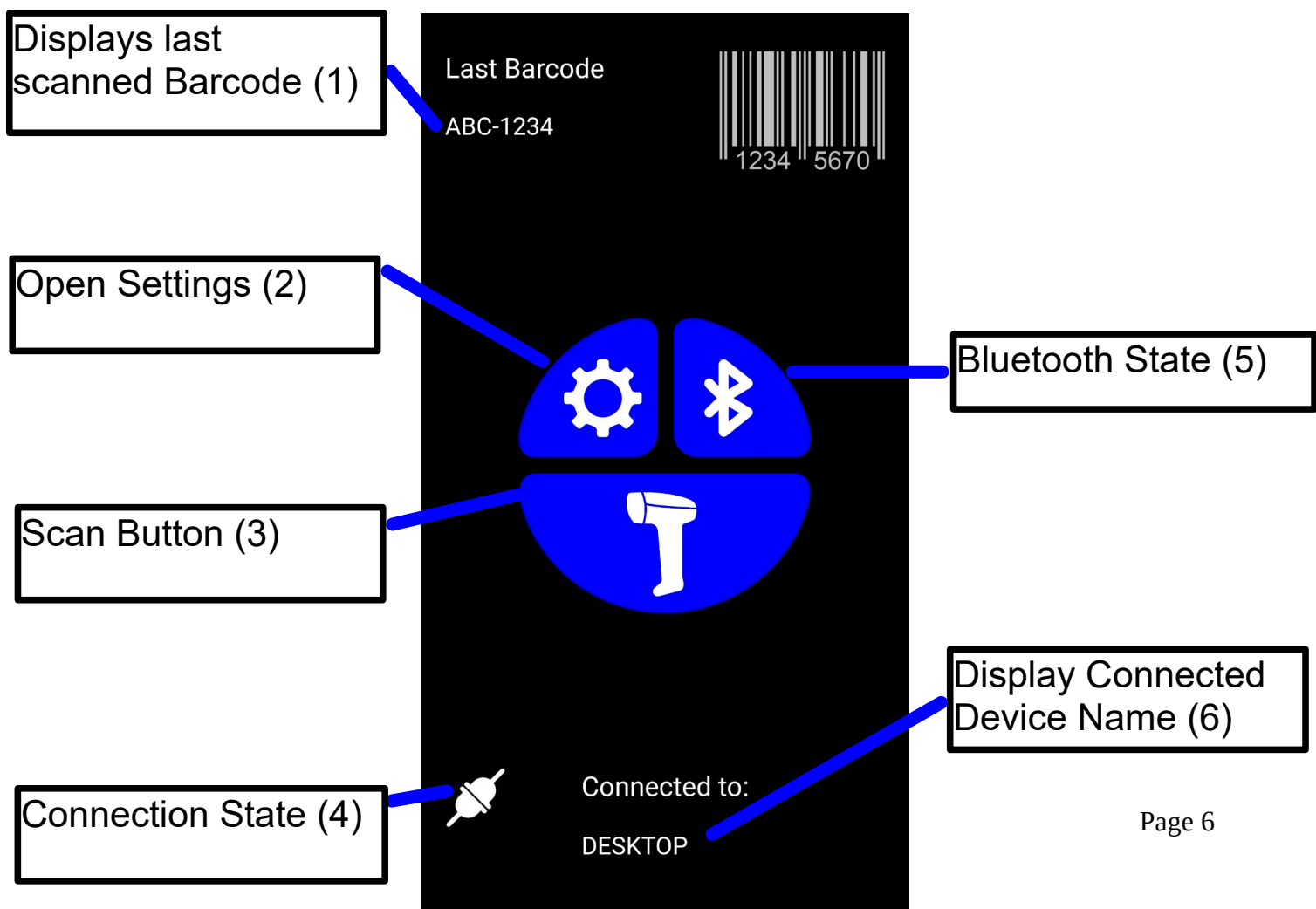
Offline Mode

To enable offline mode disable Bluetooth. Hold the Bluetooth state button pressed will depending on the Android version either disable bluetooth or activate the settings screen where you can immediately disable bluetooth.

Using the offline mode you can scan large amounts of barcodes, or barcodes far away from the computer – the barcodes are stored in the barcode history including a prefix and suffix if desired.

The barcode history can then be transmitted to PC once you have a connection or if you are finished with your work.

The barcode history will remain on the device until it is deleted in the settings menu (→ see settings section) with the history reset button (12).
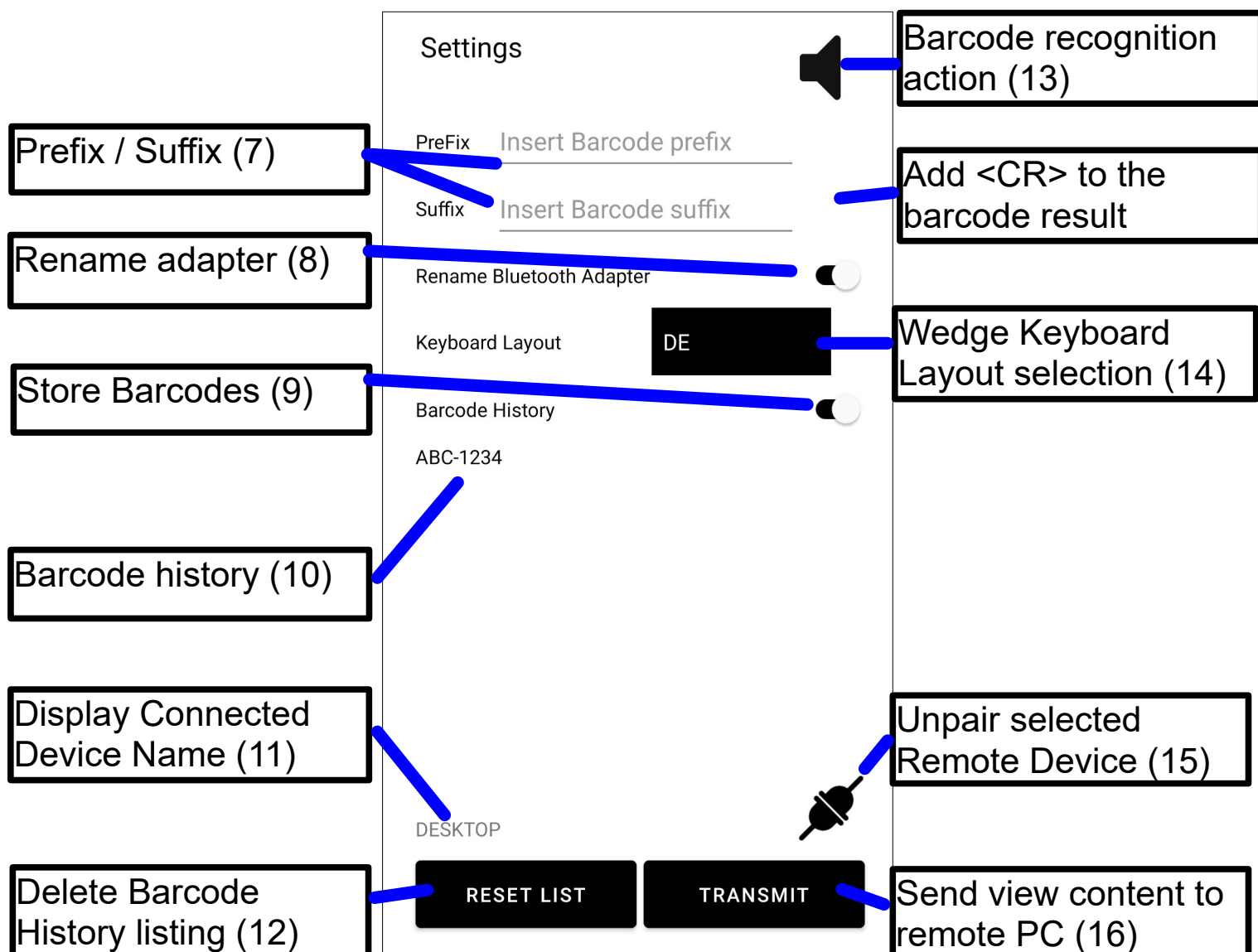
Main Screen

Displays last scanned Barcode (1)

Last Barcode

ABC-1234

1234 5670

Open Settings (2)

Bluetooth State (5)

Scan Button (3)

Display Connected Device Name (6)

Connected to:

Connection State (4)

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Bluetooth Barcode Scanner   Manual

<u>Available Functionality</u>

(1) View Last Barcode

(2) Open settings screen

(3) Start the scanner interface

(4) Connection state. Click temporarily disconnects the BT interface. (See troubleshooting section for more detail)

(5) Click tries to reconnect the Bluetooth Connection.

(6) Once connected the remote device name should appear here

Settings Screen

Prefix / Suffix (7)	**Barcode recognition action (13)**
Rename adapter (8)	Add <CR> to the barcode result
Store Barcodes (9)	Wedge Keyboard Layout selection (14)
Barcode history (10)	
Display Connected Device Name (11)	Unpair selected Remote Device (15)
Delete Barcode History listing (12)	Send view content to remote PC (16)

Settings

PreFix   Insert Barcode prefix

Suffix   Insert Barcode suffix

Rename Bluetooth Adapter

Keyboard Layout   DE

Barcode History

ABC-1234

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RESET LIST   TRANSMIT

Bluetooth Barcode Scanner   Manual

<u>Available Functionality</u>

(7) Add Prefix/Suffix to every barcode scanned. This is useful if you are parsing the barcode with a software or adding a delimiter when pasting it into excel, or adding tags such as <barcode></barcode>to use the input as xml tag.

(8) The software tries to rename the adapter to "Barcode Scanner". So upon pairing your PC will see a device called "Barcode Scanner" instead of your usual Bluetooth device name.

(9) Enable or disable the Barcode history with the push button.

(10) Barcode history view. Here you can scroll down the barcode history. This view has additional functionality. If you click long on this field it will paste text content from the clipboard to the barcode which can be sent to the remote PC. With a single click an existing barcode history is reloaded.

(12) Delete the complete barcode history. Make sure you transmitted the barcodes if they are still needed.

(13) You can select different barcode recognition actions by clicking the speaker symbols. Either a beep, vibration or a combination of both.

(14) Here you can select a keyboard language layout for the keyboard wedge mode. You need to select the language of your PC. If your language is not available you can temporarily enabled a supported language layout until you have finished scanning.

(15) Unpair current remote device. If you want to pair the "Barcode Scanner" to another device you need to click on the connection icon which will open a confirmation dialog. If there is currently no device paired it will show a related message.

(16) Transmit the current content of the barcode history view to the remote PC.

Bluetooth Barcode Scanner   Manual

Supported Barcode Formats

Industry leading 1D and 2D barcodes are supported

AZTEC

CODE_39

CODE_93

CODE_128

CODABAR

DATA_MATRIX

EAN_8

EAN_13

ITF

PDF417

QR_CODE

UPC_A

UPC_E

Bluetooth Barcode Scanner   Manual

Troubleshooting: Device cannot connect

Possible solutions:

1. Download HID Device Test from Playstore and verify support.
   https://play.google.com/store/apps/details?id=com.rdapps.bluetoothhidtester

2. End the App. Disable Bluetooth, enable Bluetooth. Restart.

3. Unpair the device, check that the Bluetooth visibility is enabled on the PC (and the phone) then try to pair again.

4. Before pairing delete any previous connection to the device persisting on the PC, in case the device has been connected before.

5. Uninstall the App turn Bluetooth Off, turn Bluetooth On, Restart phone. Install the App.

6. A bluetooth device entry for the PC must also be present in the list of known devices on the smartphone/tablet. You can also try to manually pair the PC to the smartphone from within the smartphone's bluetooth Interface. Within the PC Bluetooth settings a paired device entry has to be deleted prior to pairing the Bluetooth Scanner.

7. Don`t forget to turn on Bluetooth visibility on the remote PC Bluetooth adapter. Otherwise the device might have issues reconnecting after a successful initial pairing.

8. As the Bluetooth API implementation are in parts vendor specific there might be devices which might not work. For development we have been using Samsung devices on several different Android versions for testing.

9. Bluetooth classic can only handle 1-4 active devices in parallel. If multiple Bluetooth devices are in use these might interfere with the barcode scanner functionality.

Location Permission

The Bluetooth permission request may ask for location permission on Android13+. There are Bluetooth devices which can be accessed which evaluate the current or a relative location, therefore Android 13 is showing a default warning which was not present in prior versions. No location is requested by the Barcode Scanner app from the phone.

Warranty disclaimer:

The services and content are provided "as is" without warranty of any kind whether express or implied. In case of errors or improvements you may use the following email contact support@smarterdevices.org please use Bluetooth Barcode Scanner as subject.