WID330 User Manual

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General Notes

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Contents

0. Revision history

Revision	Date	Author	Description of change
1.00	2025-03-12	Melody.Liao	Initial

1. Introduction

1.1. WID330 Introduction

The WID330 is a Standard BLE 5.2 beacon. It is designed for tool tracking, as well as asset tracking and management in logistics and warehouses.

When worked with Queclink's tracking devices, it enables real - time asset monitoring.

Equipped with a robust waterproof rating, WID330 is specifically engineered to operate seamlessly within severe and challenging environmental conditions.

Installing the BLE beacon is easy and low-cost. You can use double-sided tape for quick and convenient attachment to tracked items. For those who need long-term stability, a screw-mounting option is available.

1.2. APP Download

QuecTag Application is a tool APP developed by Queclink, with the Application you will be able to scan for visible Queclink WID series devices, check their statuses or connect for configuration.

The APP picture, link information will add after it is published in Google play store.

2. Sleep Mode/Activate device

2.1. Sleep mode

Our WID330 is shipped in sleep mode, which means it is in standby mode and it will not broadcast any BLE data when shipping from the factory, in order to preserve the battery life.

2.2. How to activate WID330

Magnetic switch: Put any magnet whose magnetic should greater than 2500Gs close to the hall sensor area of WID330 and wait for 3s. After the LED blinks 5 times, and it means WID330 is activated successfully.

2.3. Send the device to sleep mode

To return the beacon device to sleep mode after accidental activation or to pause its use temporarily, you can choose to confirm "Send device to sleep" in the QuecTag APP after connecting the beacon device in the APP.
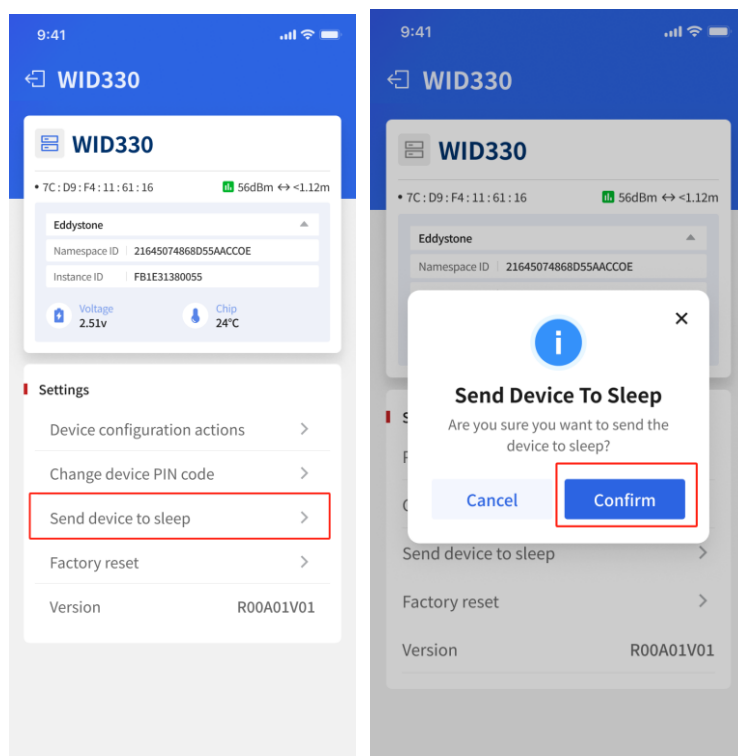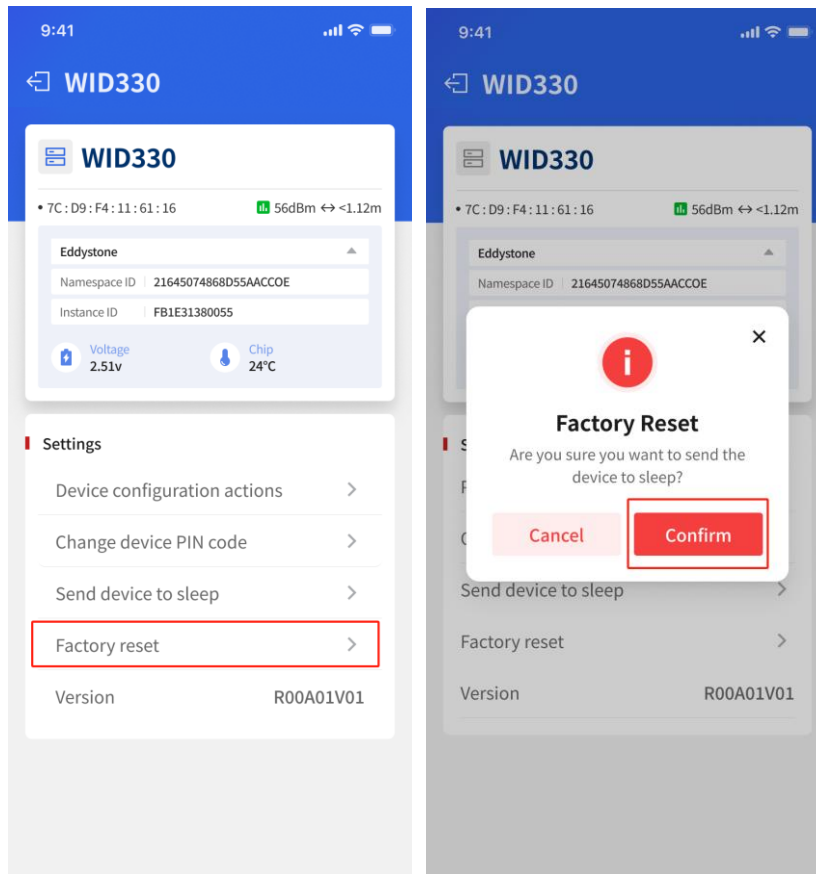
2.4. LED Indicator

When the device is activated successfully by magnet, the LED will blink 5 times.

3. How to Factory Set

3.1. Software reset

Remote factory reset through QuecTag APP if WID330 connected with the APP.
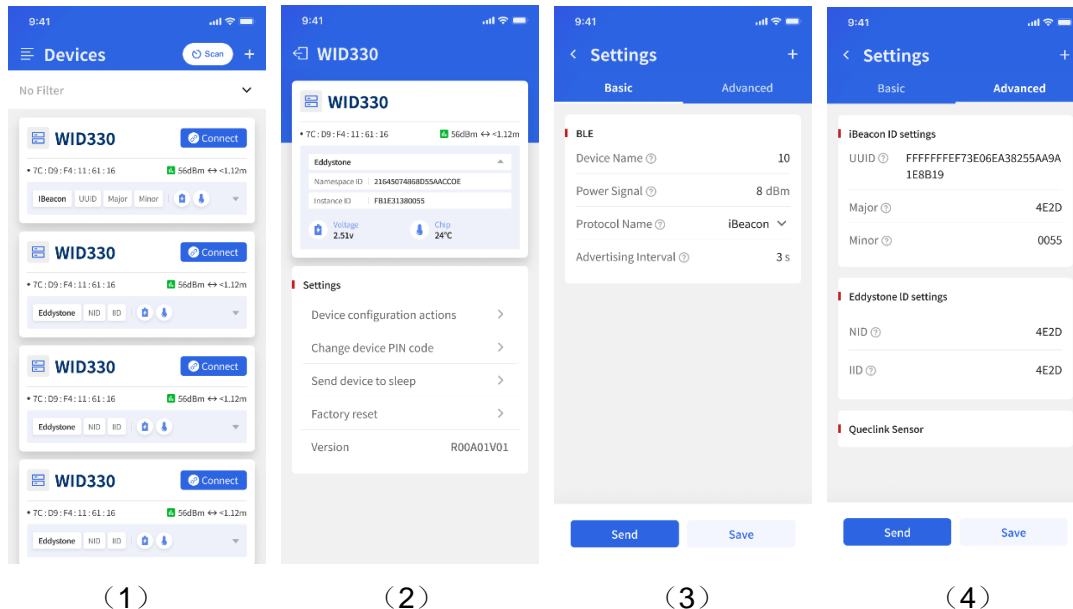

*Note: If the device confirms to enter factory setting, the device will be in sleep mode, and the configuration will restore factory settings including device name, power signal, protocol, advertising interval and the PIN code according to the customer's factory setting.
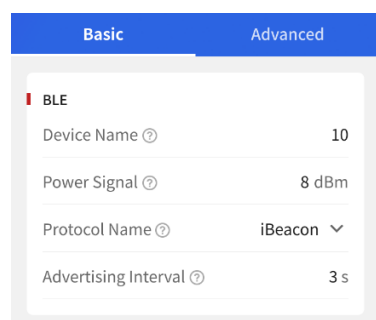
4. QuecTag APP

4.1. QuecTag APP Overview

（1）　　　　　　（2）　　　　　　（3）　　　　　　（4）

(1) **Device List:** In this interface, you will be able to see all the visible Queclink beacon devices nearby. You can view the basic transmitted information in the status bar. Also you can search some specific devices in the Filter bar, where you can filter the devices through MAC address, name, RSSI, and favorites. If you want to check the detailed information or modify the configuration parameters of one device, you can select it to connect through entering the pin code or preset pin code (default pin code is 123456).

(2) **Device Homepage:** In this page, you can see the protocol, voltage and temperature information. You can choose to modify device configuration, change device PIN code, send device to sleep and factory resetting here. The current software version of the device is also displayed. If you stay on this page for three minutes without performing any action, the device is automatically disconnected.

(3) **Basic Settings:** In this page, you can configure parameters related to BLE.

<Device Name>: Self-defined advertising name. It will be displayed in the advertisement packet of Bluetooth scanner. It supports maximum 10 characters.

<Power Signal>: Tx power.

Range value: -4dBm ~ 8dBm

<Protocol Name>: Eddystone or iBeacon protocol supported.

<Advertising Interval>: The interval of BLE broadcast packet advertising.

Range value: 0.5s ~ 10s

*Note: Modifying these parameters may affect the standby time and consumption.

(4) **Advanced Settings:** In this page, you can modify the UUID/Major/Minor of iBeacon protocol and NID/IID of Eddystone protocol.

*Note: All new settings will take effect after the BLE connection between the device and APP is disconnected.

4.2. Default Setting and customization support

Items	Queclink Default value
Device Name	WID330
Power Signal	0dBm
Protocol	iBeacon
Advertising Interval	1s
PIN code	123456

Customers can define the default values according to their own needs. If you need to modify the default values, you can contact our FAE team: fae@queclink.com
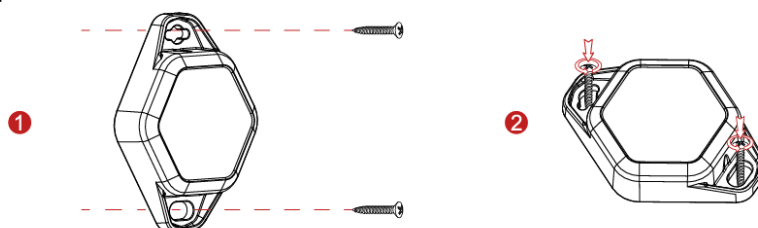
5. Configuration of Trackers

Here by using the Manage Tool,

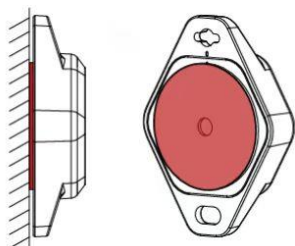Step 1: Enable the Bluetooth function in AT+GTBTS.

Step 2: Properly set the parameters such as Accessory Type, Accessory model, Accessory MAC. Read Interval in AT+GTBAS. Please select corresponding append mask for report in +RESP:GTERI.
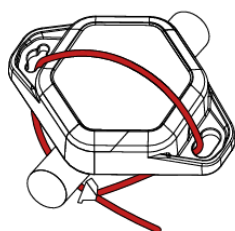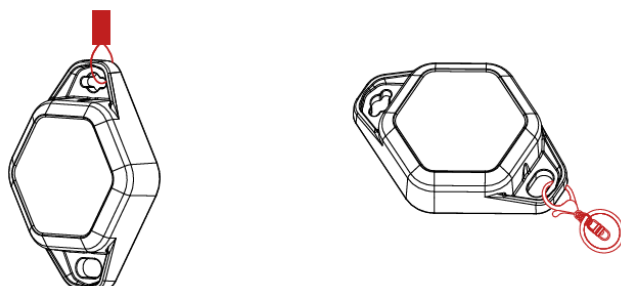
6. Installation

Option 1: Screw fixation
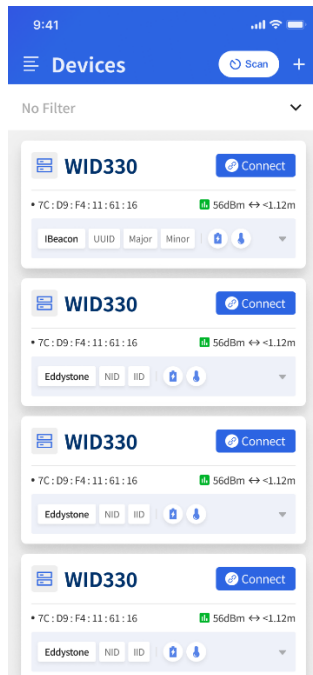

Option 2: 3M sticker

Option 3: Ziptie
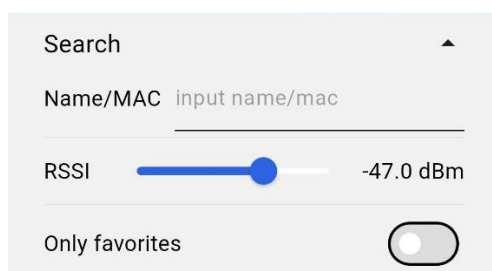

Option 4: Hanging

7. APP Detailed Features

7.1. Devices

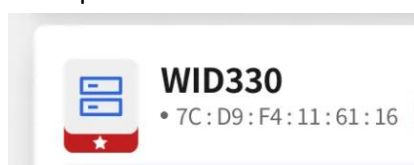With the application, you will be able to scan for visible Queclink WID series devices.

7.2. Filter Search

Tap the top view to expand the filter area, you may filter your device list by name, MAC address, RSSI strength, or only display the devices that are marked as favorites.
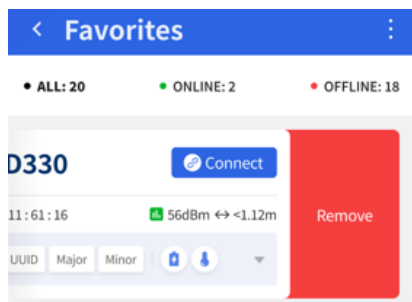

7.3. Favorite

● Tap the icon to mark it as a favorite, and tap again to cancel it;

- Favorite devices can be displayed in the Favorites menu.
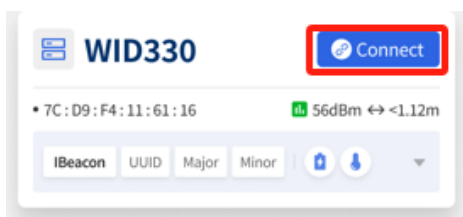

- You can also slide left to delete in the Favorites menu.
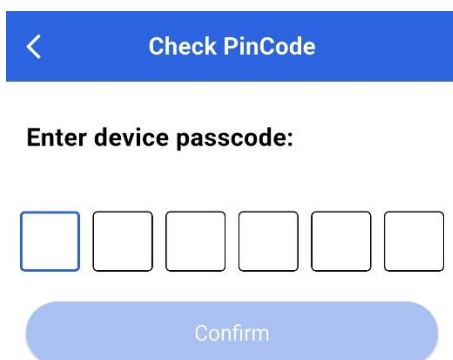

7.4. Connect

1. Click the Connect button to connect the device.

2. After the Pin code is verified, enter the view of device configuration.
   Default Pin code is 123456

3. If you stay in the device setting homepage for 3 minutes and without any operations, the BLE connection will be disconnected.
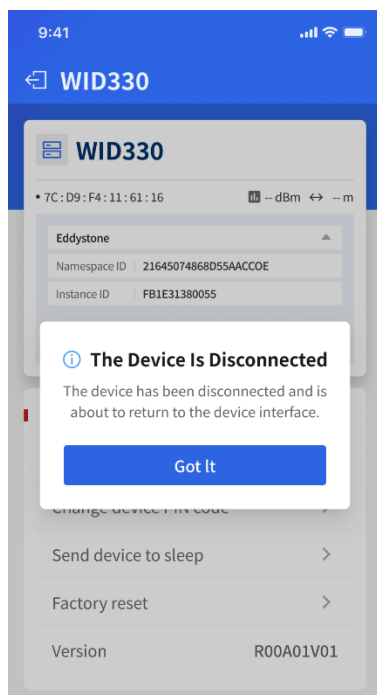
7.5. Change PIN code

The PIN code is stored in the device for verification when connecting the device; it can be modified individually;
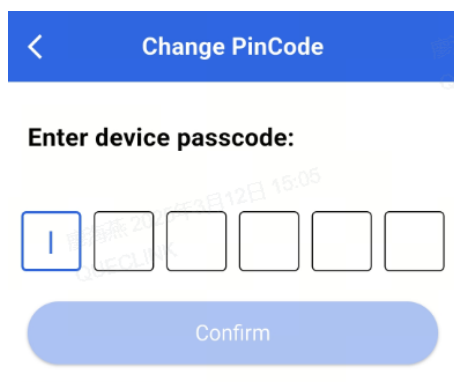
7.6. Send device to sleep

In sleep mode, the configurations are preserved, including device name, protocol broadcast, PIN code, etc.
(Please view Chapter 2.3 for details)

7.7. Restore Factory Setting

After Restore factory, the modified configurations will not be preserved.
(Please view Chapter 3 for details)

7.8. Firmware version

Display firmware version of the device.
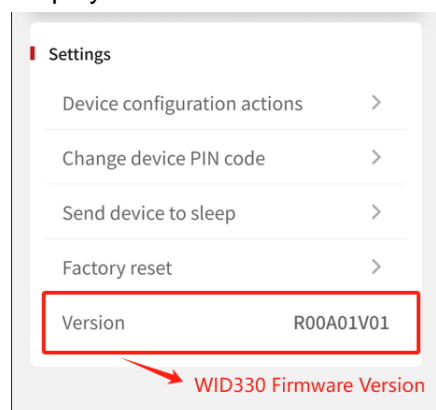
7.9. Scan QR code

The device can be connected by scanning the QR code of the device through the camera;
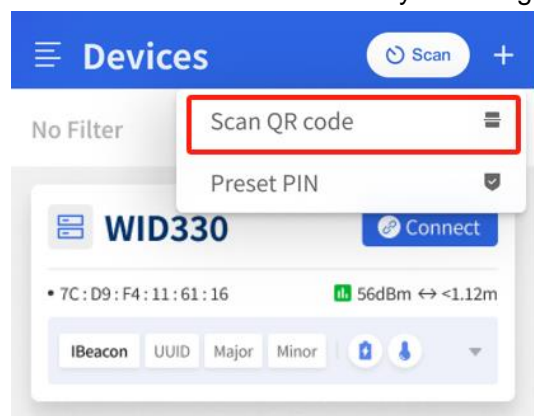
7.10. Preset PIN code

It is used to use the preset PIN code for password input by default when connecting the device. If the preset PIN code is wrong, you need to re-enter the connected PIN code; The Preset PIN code is saved in the APP only, not in the BLE device;
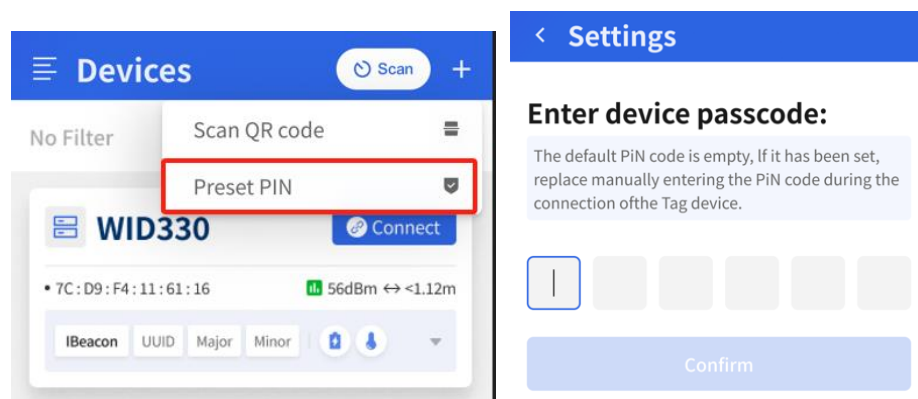
7.11. Configure Files

When the file is saved during Configure actions, it will be displayed here; the file can be opened, modified, deleted, shared, etc. In file management, up to 50 files can be saved. If the number exceeds this, the file needs to be deleted first.
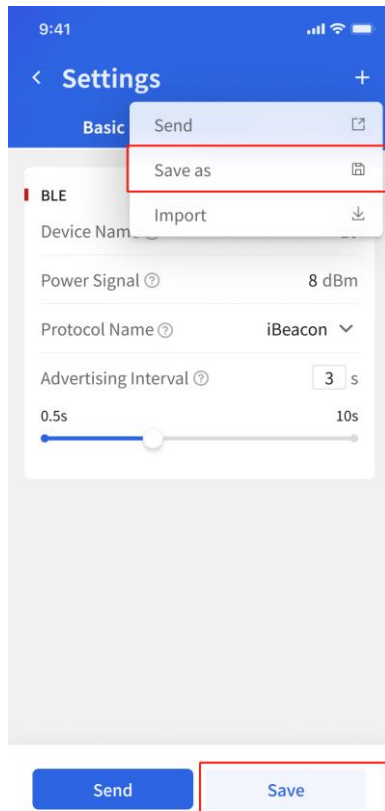
- **Save configuration:** After you edit your configuration of the device, you can choose to save the configuration as a file.
- **Import:** You can import a new configuration file to modify your device.

7.12. APP Settings

This menu is used for APP settings, which can be set for language and scanning period.
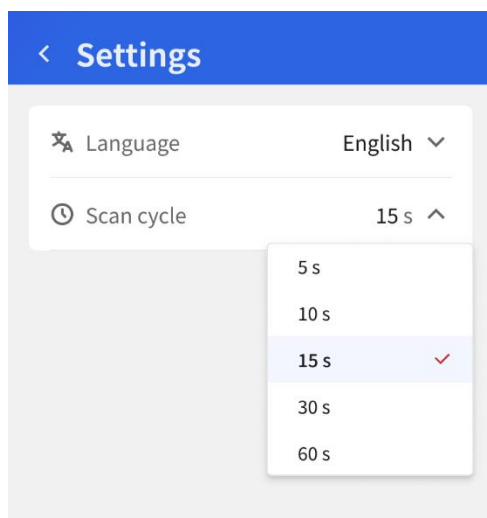
- Default language: English.

(Spanish will be supported in a later version)

- Scan cycle: Period for the APP to scan BLE devices. The maximum value is 60 seconds.

8. FAQ

8.1. General questions

1. Is the application free?

Yes. The application is available on Google Play free of charge.

2. What is the purpose of the application?

The application is used to connect, configure, and debug Queclink's BLE devices, such as: WID330 etc.

3. Who developed the application？

Queclink. If you have any questions, please contact your sales manager.

8.2. Device list questions

1. Why can't I see my device on the list?

The list only shows Queclink's BLE devices. Make sure the device is powered on and belongs to Queclink. If the device is powered on and belongs to Queclink, but still doesn't display on the device list, please check whether the QuecTag permission "nearby devices" is enabled.
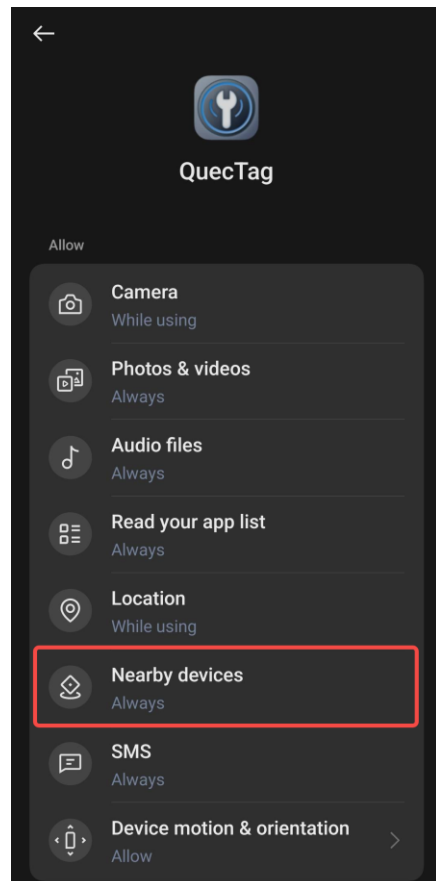
2.   Can I filter the list of devices?

Yes. Click the "No filter" on the Devices to expand a filter view. You may filter devices by the address, name, RSSI. You may also mark a device as favorite by pressing its icon on the left. A red star indicates that it's favorite and will be shown.

3.   What is the RSSI?

The RSSI(Received Signal Strength Indication) is a measurement of the power present in a received radio signal. It's usually displayed in dBm(Decibel-milliwatts). Low power devices, like Bluetooth Low Energy devices, are using very week power to transfer data, therefore the usual values of RSSI are between -100dBm(very week signal) to around -20 dBm(signal strength).

4.   Why the RSSI values are different on two Android devices?

RSSI value is a measurement of the power present in received radio signal. The signal strength depends on the antennas, device orientation, location, distance from the phone to the target device, humidity etc.

8.3. Connection questions

1.   How to use the Preset PIN code?

When the application is connected to the BLE device, you need to enter the PIN code for verification. With the preset PIN code, manually entering the password will be replaced first.

9. Cautions

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation

You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC RF Radiation Exposure Statement:
1.   This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2.   This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body.