



## Radar(DS-TMG035)

HVIN: DS-TMG035/60G(Trigger Radar)  
HVIN: DS-TMG035/60G(Anti-fall Radar)

User Manual

## Legal Information

©2022 Hangzhou Hikvision Digital Technology Co., Ltd. All rights reserved.

### About this Manual

The Manual includes instructions for using and managing the Product. Pictures, charts, images and all other information hereinafter are for description and explanation only. The information contained in the Manual is subject to change, without notice, due to firmware updates or other reasons. Please find the latest version of this Manual at the Hikvision website

(<https://www.hikvision.com/>).

Please use this Manual with the guidance and assistance of professionals trained in supporting the Product.

### Trademarks

**HIKVISION** and other Hikvision's trademarks and logos are the properties of Hikvision in various jurisdictions.

Other trademarks and logos mentioned are the properties of their respective owners.

### Disclaimer

TO THE MAXIMUM EXTENT PERMITTED BY APPLICABLE LAW, THIS MANUAL AND THE PRODUCT DESCRIBED, WITH ITS HARDWARE, SOFTWARE AND FIRMWARE, ARE PROVIDED "AS IS" AND "WITH ALL FAULTS AND ERRORS". HIKVISION MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY, SATISFACTORY QUALITY, OR FITNESS FOR A PARTICULAR PURPOSE. THE USE OF THE PRODUCT BY YOU IS AT YOUR OWN RISK. IN NO EVENT WILL HIKVISION BE LIABLE TO YOU FOR ANY SPECIAL, CONSEQUENTIAL, INCIDENTAL, OR INDIRECT DAMAGES, INCLUDING, AMONG OTHERS, DAMAGES FOR LOSS OF BUSINESS PROFITS, BUSINESS INTERRUPTION, OR LOSS OF DATA, CORRUPTION OF SYSTEMS, OR LOSS OF DOCUMENTATION, WHETHER BASED ON BREACH OF CONTRACT, TORT (INCLUDING NEGLIGENCE), PRODUCT LIABILITY, OR OTHERWISE, IN CONNECTION WITH THE USE OF THE PRODUCT, EVEN IF HIKVISION HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES OR LOSS.

YOU ACKNOWLEDGE THAT THE NATURE OF THE INTERNET PROVIDES FOR INHERENT SECURITY RISKS, AND HIKVISION SHALL NOT TAKE ANY RESPONSIBILITIES FOR ABNORMAL OPERATION, PRIVACY LEAKAGE OR OTHER DAMAGES RESULTING FROM CYBER-ATTACK, HACKER ATTACK, VIRUS INFECTION, OR OTHER INTERNET SECURITY RISKS; HOWEVER, HIKVISION WILL PROVIDE TIMELY TECHNICAL SUPPORT IF REQUIRED.

YOU AGREE TO USE THIS PRODUCT IN COMPLIANCE WITH ALL APPLICABLE LAWS, AND YOU ARE SOLELY RESPONSIBLE FOR ENSURING THAT YOUR USE CONFORMS TO THE APPLICABLE LAW.

ESPECIALLY, YOU ARE RESPONSIBLE, FOR USING THIS PRODUCT IN A MANNER THAT DOES NOT INFRINGE ON THE RIGHTS OF THIRD PARTIES, INCLUDING WITHOUT LIMITATION, RIGHTS OF PUBLICITY, INTELLECTUAL PROPERTY RIGHTS, OR DATA PROTECTION AND OTHER PRIVACY RIGHTS.

~~YOU SHALL NOT USE THIS PRODUCT FOR ANY PROHIBITED END-USES, INCLUDING THE~~




DEVELOPMENT OR PRODUCTION OF WEAPONS OF MASS DESTRUCTION, THE DEVELOPMENT OR



PRODUCTION OF CHEMICAL OR BIOLOGICAL WEAPONS, ANY ACTIVITIES IN THE  
CONTEXT RELATED TO ANY NUCLEAR EXPLOSIVE OR UNSAFE NUCLEAR FUEL-  
CYCLE, OR IN SUPPORT OF HUMAN RIGHTS ABUSES.  
IN THE EVENT OF ANY CONFLICTS BETWEEN THIS MANUAL AND THE  
APPLICABLE LAW, THE LATTER PREVAILS.

# Symbol Conventions

The symbols that may be found in this document are defined as follows.

Symbol	Description
 <b>Danger</b>	Indicates a hazardous situation which, if not avoided, will or could result in death or serious injury.
 <b>Caution</b>	Indicates a potentially hazardous situation which, if not avoided, could result in equipment damage, data loss, performance degradation, or unexpected results.
 <b>Note</b>	Provides additional information to emphasize or supplement important points of the main text.

# Contents

**Chapter 1 Introduction ..... 1**

**1.1 Product Introduction ..... 1**

**1.2 Radar logic ..... 1**

**Chapter 2 Installation ..... 3**

**2.1 Accessories ..... 3**

        2.1.1 Trigger radar ..... 3

        2.1.2 anti-fall radar ..... 3

**2.2 Installation ..... 4**

        2.2.1 Trigger radar ..... 4

        2.2.2 anti-fall radar ..... 5

**Chapter 3 configuration..... 7**

**3.1 Software Installation ..... 7**

**3.2 Connecting Radar ..... 7**

**3.3 language switch ..... 8**

**3.4 Radar Parameters ..... 9**

**3.5 Radar Parameters Setting ..... 10**

**3.6 WiFi Setting ..... 12**

**3.7 Radar Detection ..... 13**

**3.8 Firmware Upgrade..... 14**

# Chapter 1 Introduction

## 1.1 Product Introduction

This document is a guide for radar installation and debugging. When the radar is used as the trigger device or anti-fall device in the E&E system, you can refer to the following debugging steps. The advantages of radar are convenient installation, low construction cost and stable triggering of passing objects, while the disadvantages are easy to cause false triggering.

This equipment used on satellites, and aircraft are prohibited.

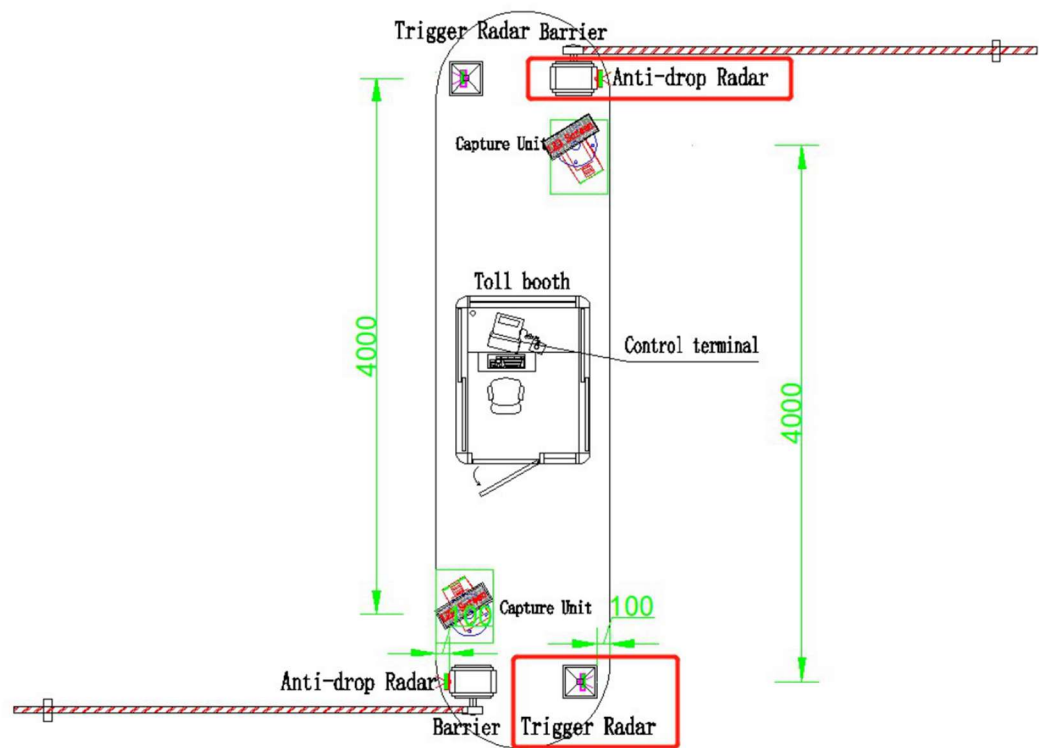
## 1.2 Radar logic

### Trigger Radar

The trigger radar is connected to the camera and is usually installed 4 meters away from the camera. When the vehicle passes the radar trigger signal, the radar sends the signal to the camera, and the camera completes the capture

### Anti-fall Radar

The anti-fall radar is connected with the barrier gate, and the radar installation hole is reserved on the side of the barrier. When the vehicle passes through the barrier gate and triggers the signal, the radar sends the signal to the lane gate to keep the barrier gate open. When the vehicle passes the radar, the signal disappears and the gate falls





## Chapter 2 Installation

### 2.1 Accessories

#### 2.1.1 Trigger radar



① Radar ② User Manual ③ Power Cable ④ Nut ⑤ Signal Line ⑥ Expansion Screw ⑦ Pole

#### 2.1.2 anti-fall radar

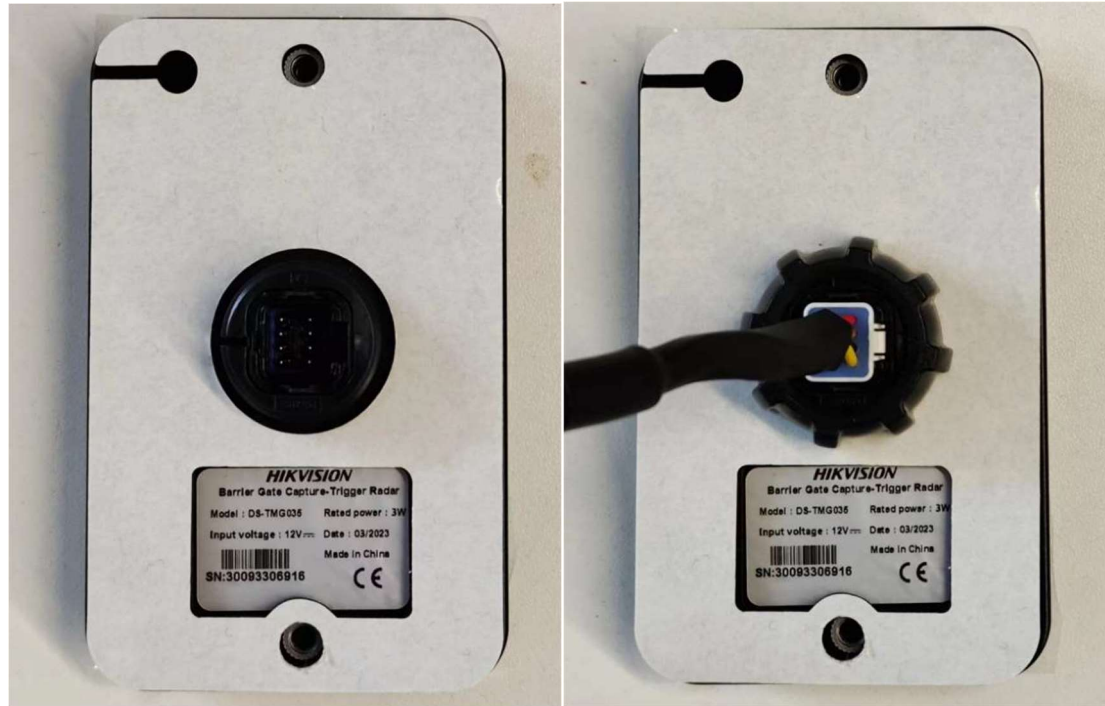


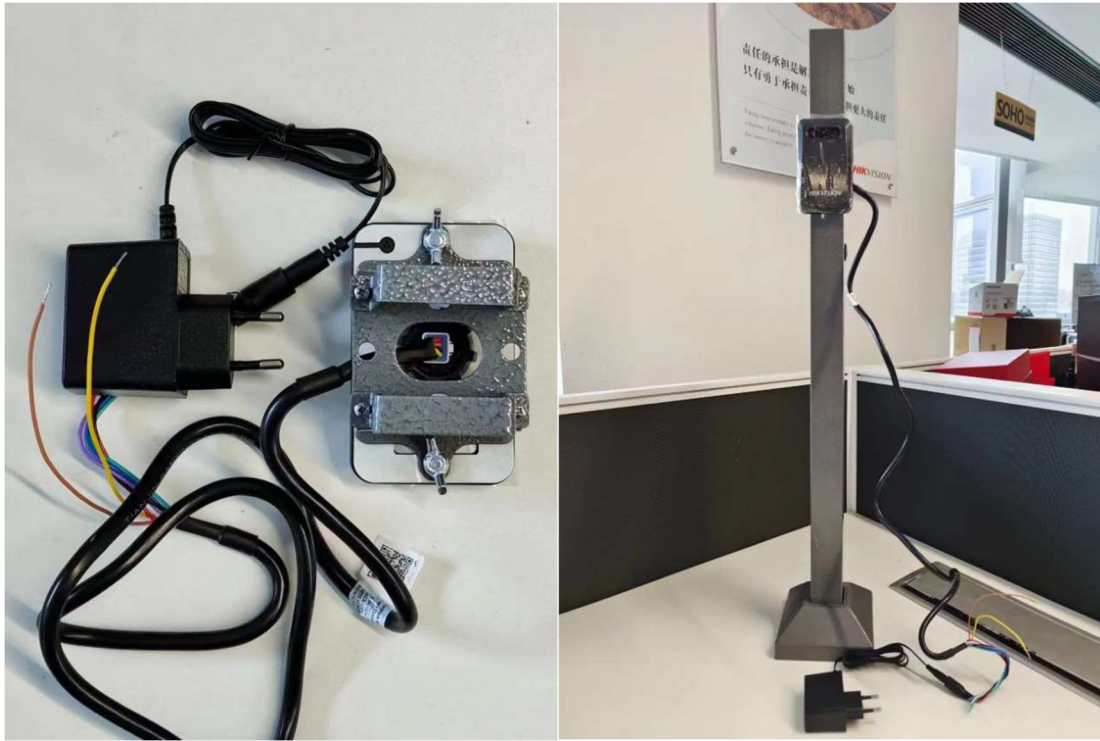
## 2.2 Installation

### 2.2.1 Trigger radar

The installation height of the radar is 60CM, and the installation position should be about 4 meters away from the camera. After determining the location, it should be fixed by expansion screws. The red and black wires of the radar are power cables, and the yellow and brown wires are signal cables, which are connected to the IO port of the camera.

The following is the radar installation process





### 2.2.2 anti-fall radar

The anti-collision radar is installed at the side of the lane gate and installed through the reserved hole of the lane gate. The red and black wires of the radar are power cables, and the yellow and brown wires are signal cables, which are connected to the induction port of the barrier.

The following is the installation process of anti-fall radar



## Chapter 3 configuration

After the installation completes, power on the radar, starting to debug the radar

### 3.1 Software Installation

Click the QR code below to download and install software

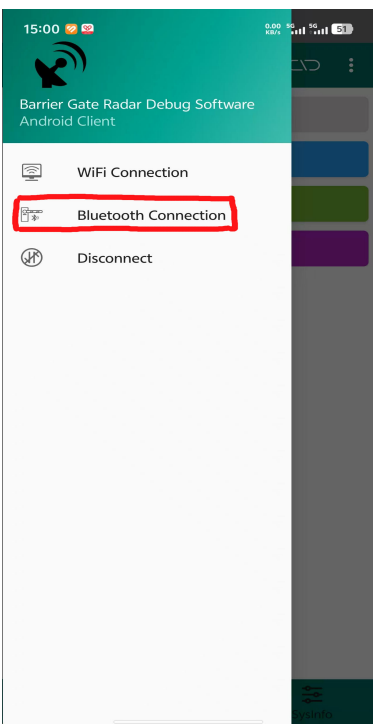
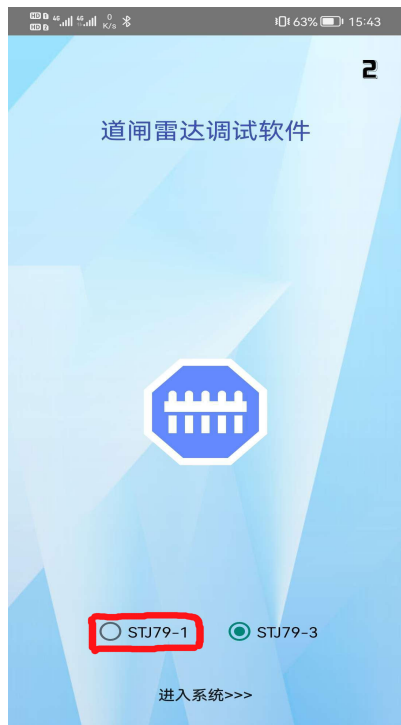


### 3.2 Connecting Radar

Select STJ79-1 to enter the software, click the upper left corner, and select "Bluetooth connection" to enter the Bluetooth setting interface of the phone.

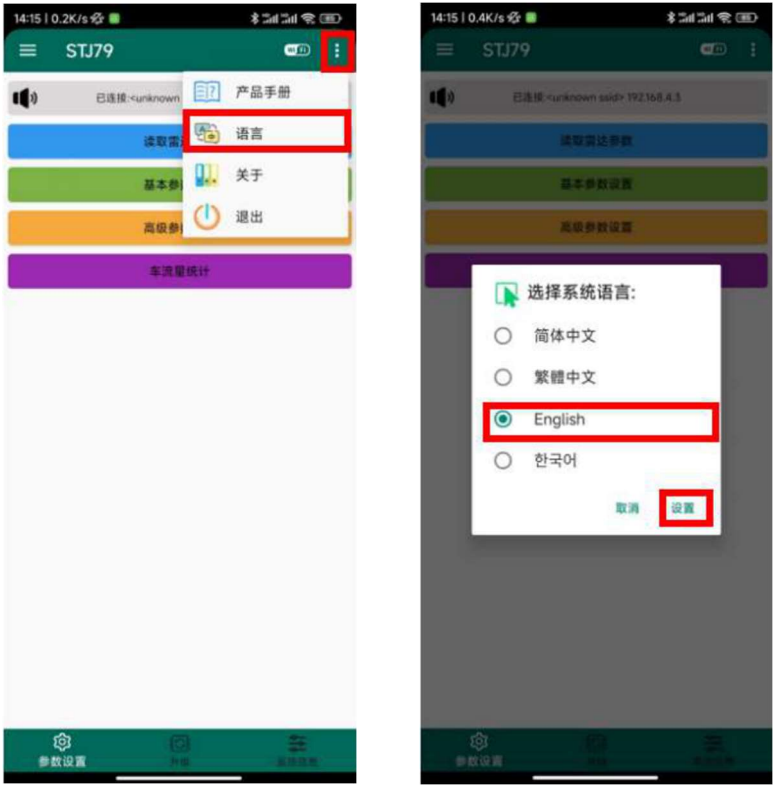
Find the Bluetooth of the RADAR to connect. Then return to the debugging software and click "Bluetooth connection" again to connect the device.





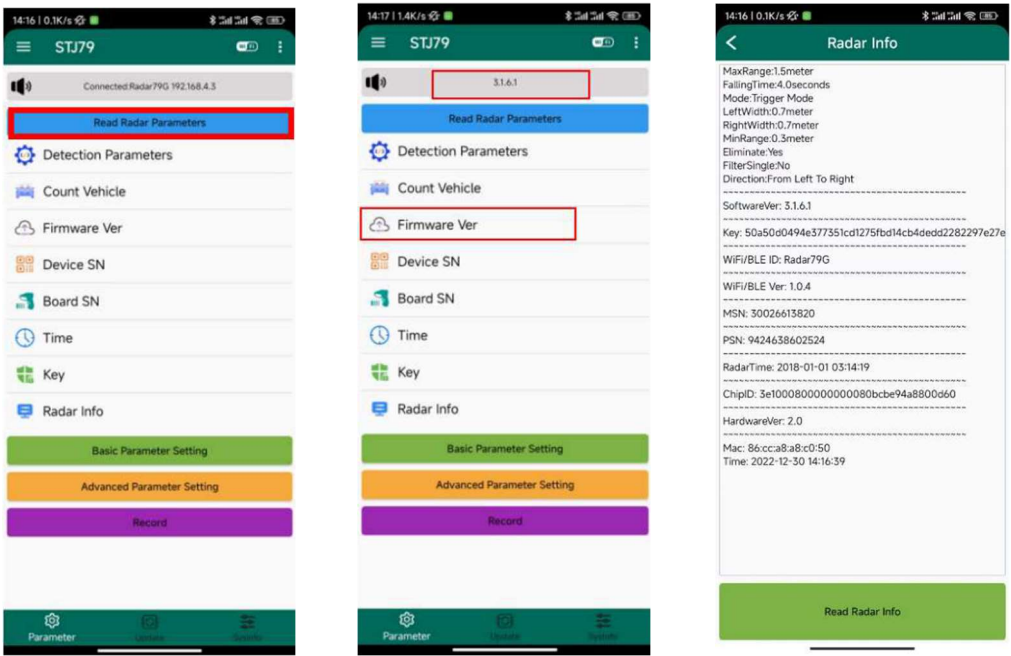
### 3.3 language switch

Click on the right side of the software and then click on language to select English. If the phone is IOS, the software language is the same as the system language. There is no need to switch



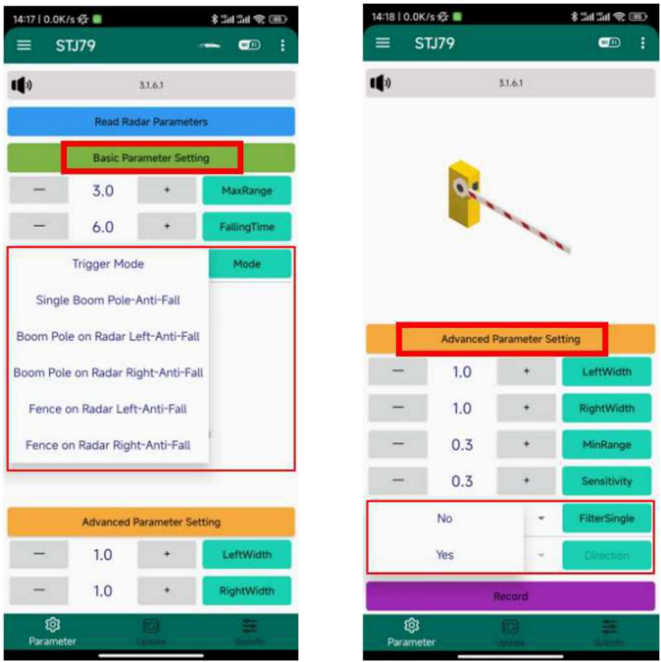
### 3.4 Radar Parameters

Radar related parameters acquisition: In the main interface of read radar parameters list you can choose to read back various information and parameters of the radar, the returned firmware version, SN, time is displayed at the upper small speaker, the detection parameters and radar information will generate a new page to display.



3.5 Radar Parameters Setting

Trigger Radar: Select Trigger mode and select "Yes" in FilterSingle. Anti-Fall Radar: Select Single Boom Pole-Anti-Fall mode and select "No" in FilterSingle.

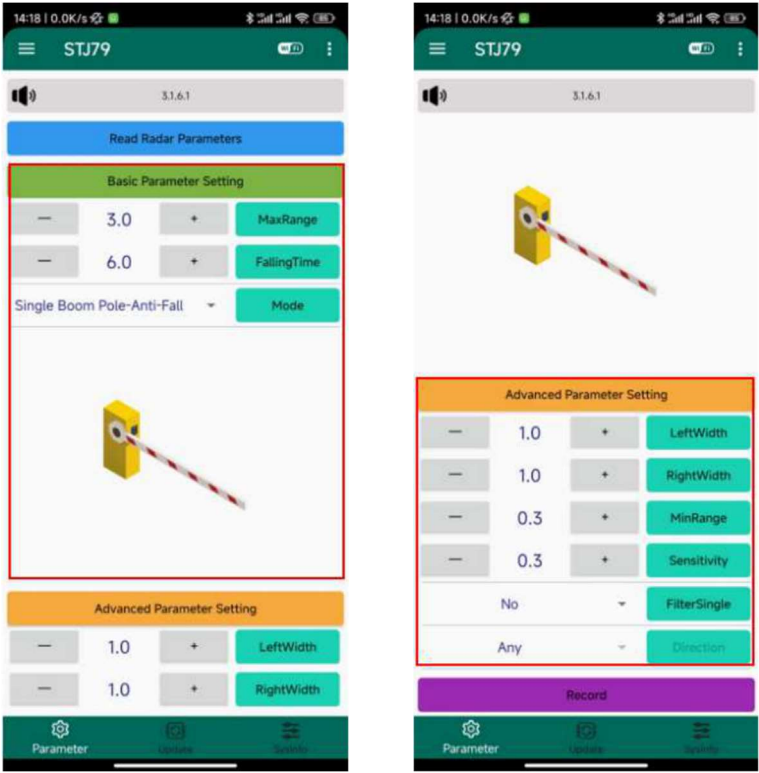


Other parameters are set as follows

- ① The maximum detection distance is set to the actual pole length (can be set in the range of 0.1-6m)



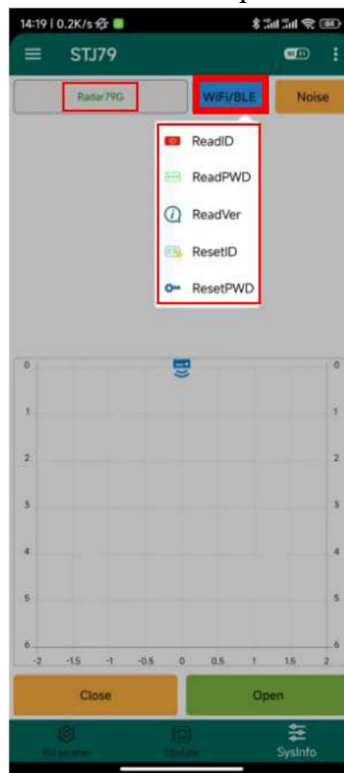
- ② The Minimum detection distance set by default 0.3m (can be set in the range of 0.1-6m)
- ③ The left and right side width Detection range setting both default 1m.
- ④ Pole falling time should be set the default is 6s.
- ⑤ Detection direction setting: Do not setting, keep the default Any.
- ⑥ Sensitivity is generally set to 0.3.



### 3.6 WiFi Setting

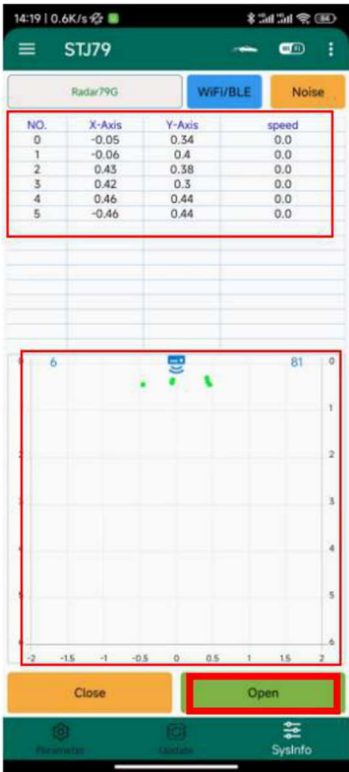
WiFi settings: In the system information menu, click WIFI/BLE to get the radar

WiFi name and password and version, and you can also modify the radar WiFi name and password to distinguish the current device in multiple radar scenarios.



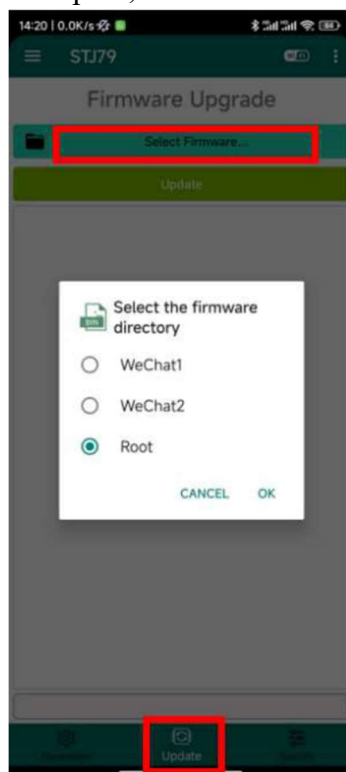
### 3.7 Radar Detection

Radar target detection: during installation and commissioning or later maintenance, if there is a false trigger or no fall of the pole, you can click "open" to display the target detected by the radar in real time in the form of points in the coordinate system in real time, easy to investigate.



### 3.8 Firmware Upgrade

In the upgrade menu, use the "Select Firmware" button to import the firmware upgrade package via WeChat file or local path, and then click "upgrade".





See Far, Go Further