# Radar(DS-TMG034)

User Manual

# Legal Information

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## 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.

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# Symbol Conventions

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

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

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# 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

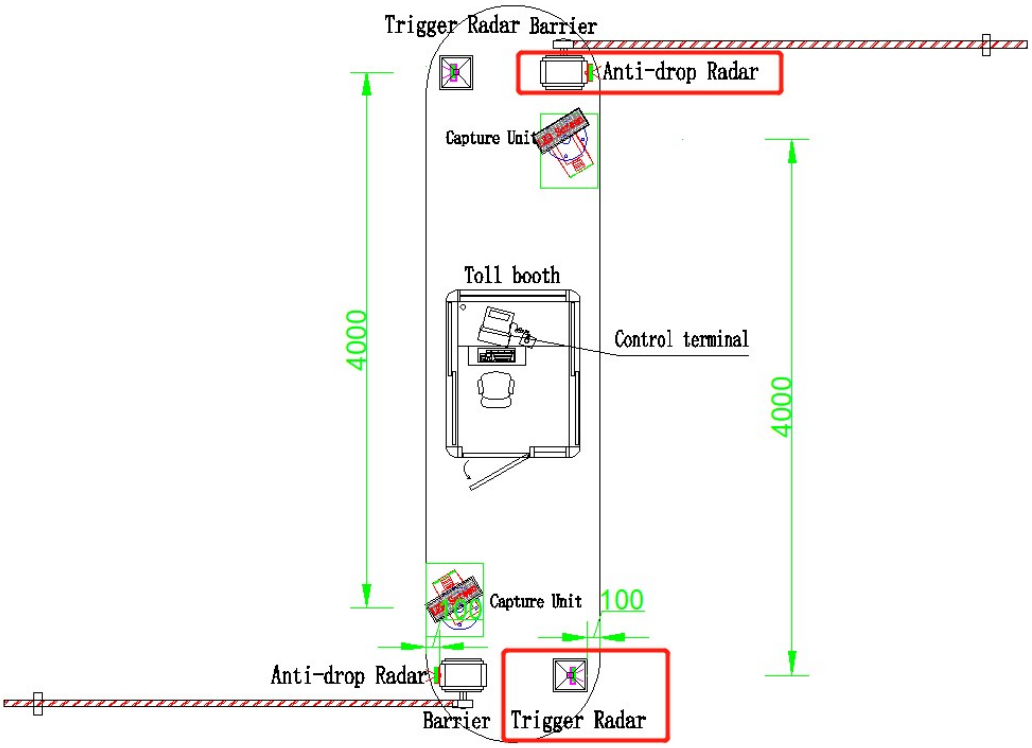
## 1.2 Radar logic

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

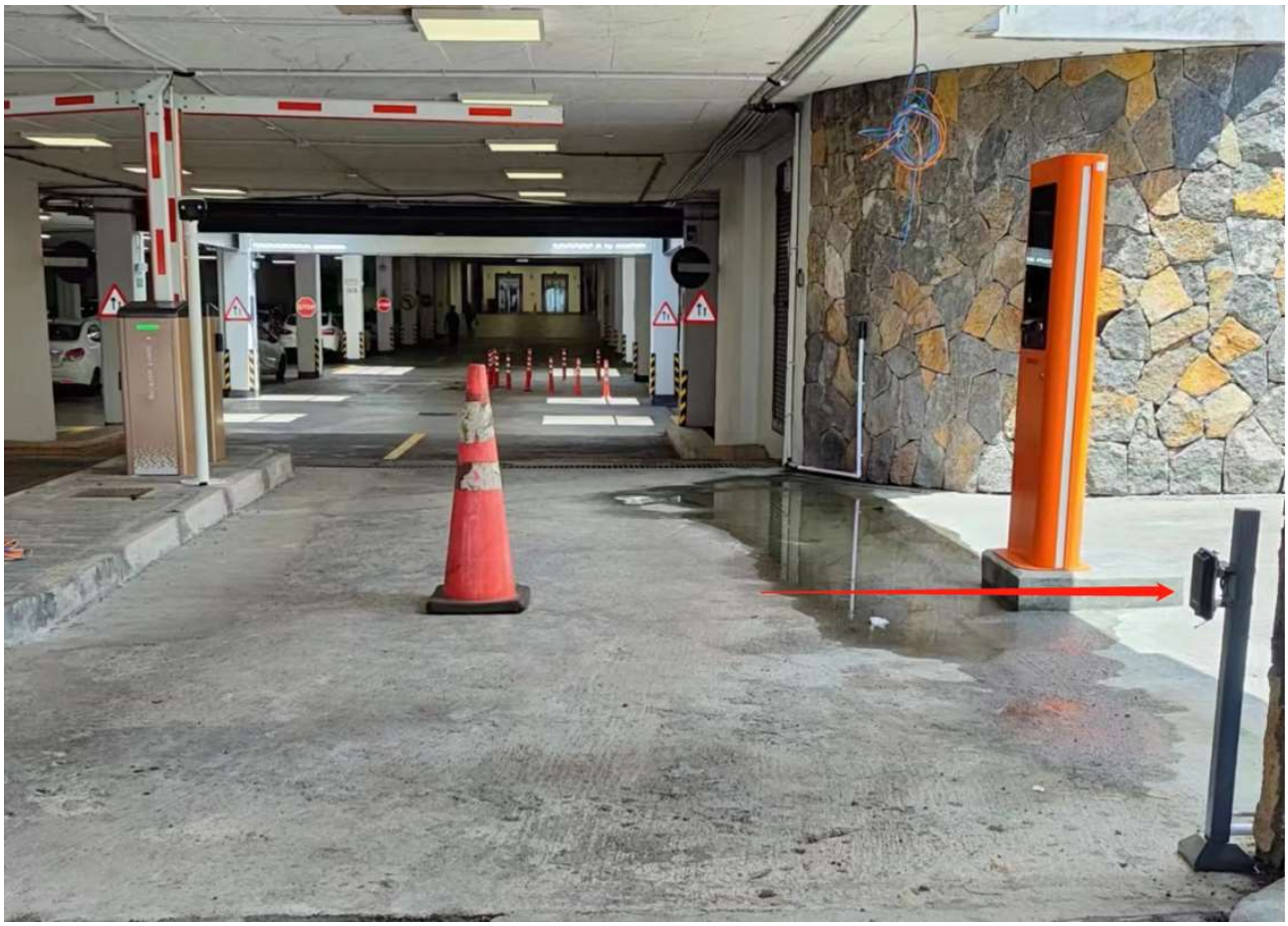

Trigger Radar Barrier
Anti-drop Radar
Capture Unit
Toll booth
Control terminal
4000
4000
Capture Unit
100
100
Anti-drop Radar
Barrier
Trigger Radar

# Chapter 2 Installation

## 2.1 Installation

### 2.1.1 Trigger radar

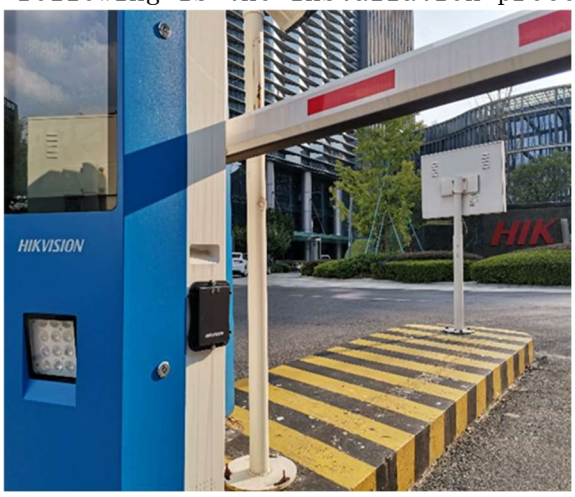
The installation height of the radar is 60CM, and the installation position should be about 4 meters away from the camera. After determining the location, it should be fixed by expansion screws. The red and black wires of the radar are power cables, and the yellow and brown wires are signal cables, which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



## 2.1.2 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

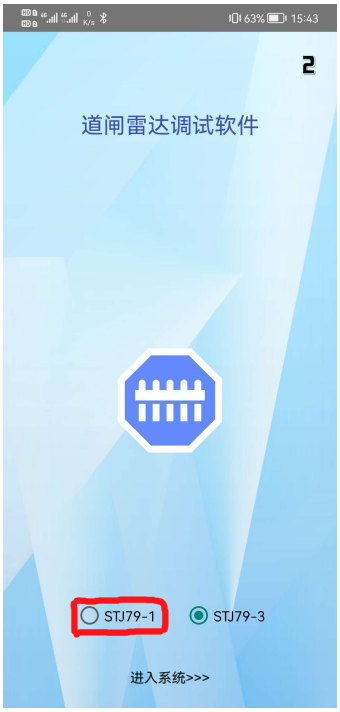
Click the QR code below to download and install software

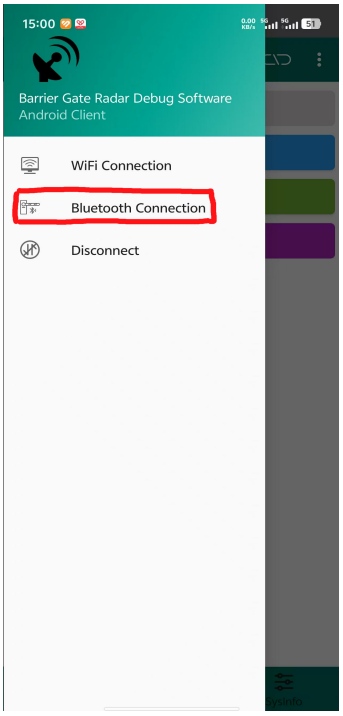




## 3.2 Connecting Radar

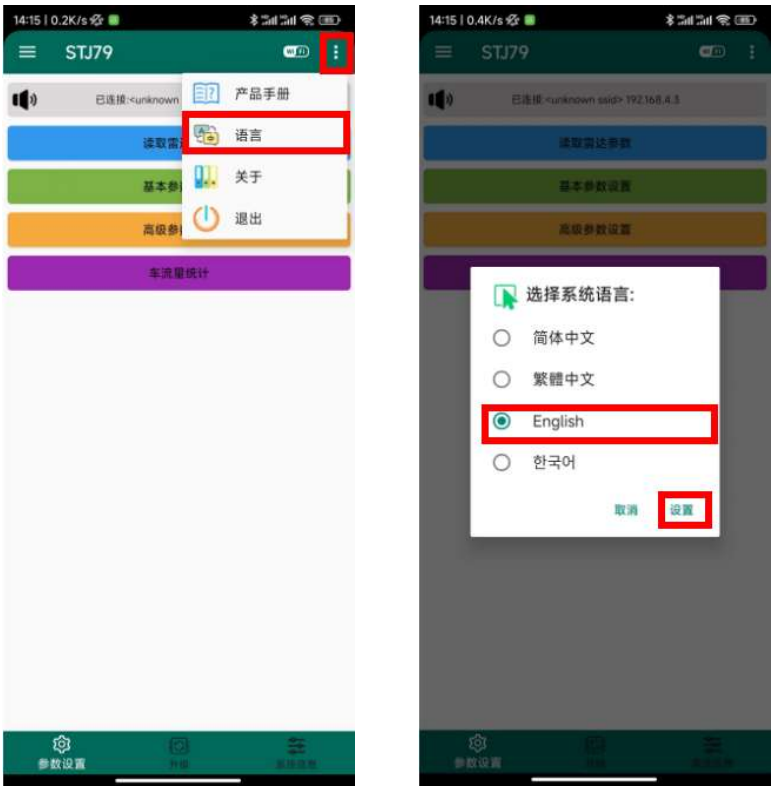
Select STJ79-1 to enter the software, click the upper left corner, and select "Bluetooth connection" to enter the Bluetooth setting interface of the phone. Find the Bluetooth of the RADAR to connect.
Then return to the debugging software and click "Bluetooth connection" again to connect the device.



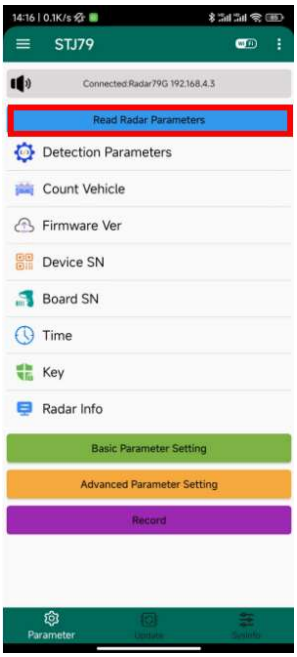

## 3.3 language switch

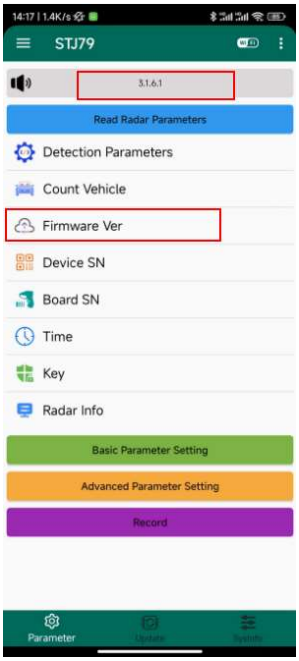
Click on the right side of the software and then click on language to select English. If the phone is an Apple OS, the software language is the same as the system language. There is no need to switch

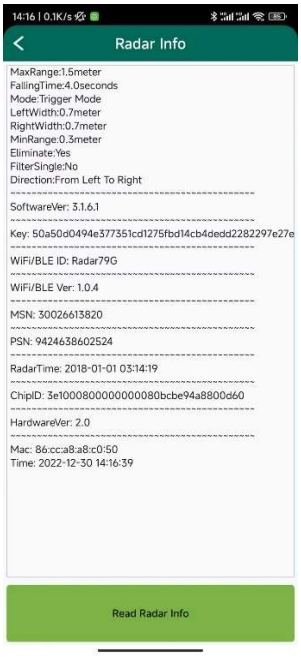



## 3.4 Radar Parameters

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.



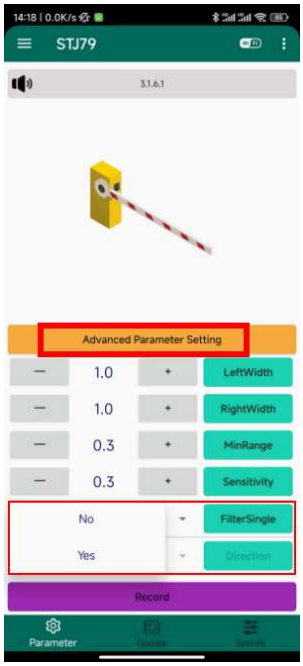




## 3.5 Radar Parameters Setting

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.

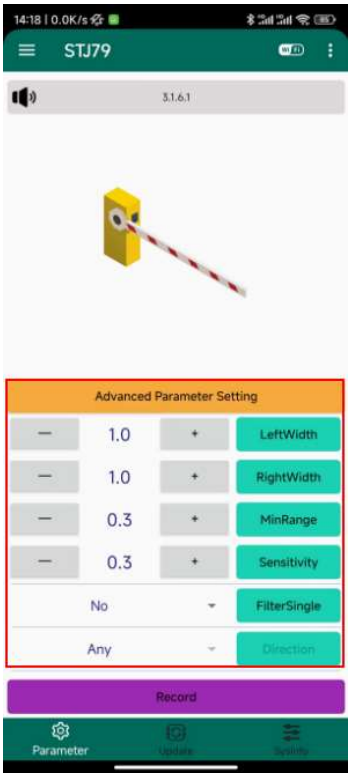



Other parameters are set as follows
①The maximum detection distance is set to the actual pole length (can be set in the range of 0.1-6m)

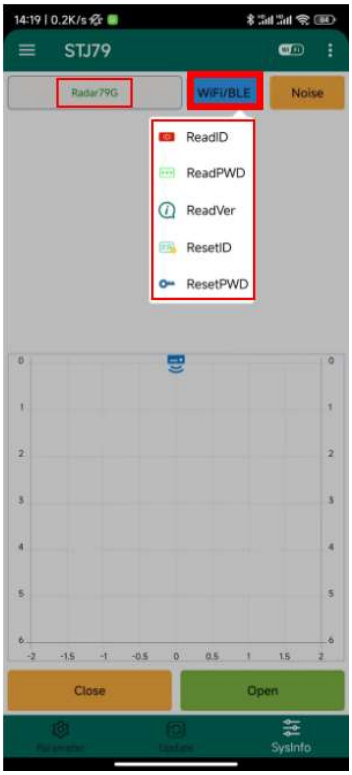
②The Minimum detection distance set by default 0.3m (can be set in the range of 0.1-6m)
③The left and right side width Detection range setting both default 1m.
④Pole falling time should be set the default is 6s.
⑤Detection direction setting: Do not setting, keep the defult Any.
⑥Sensitivity is generally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



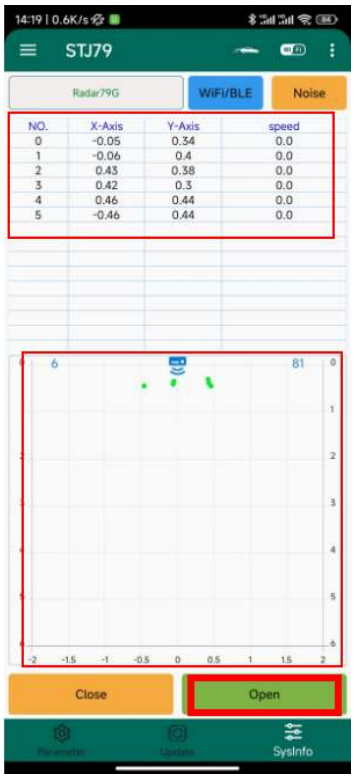
## 3.6 WiFi Setting

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.



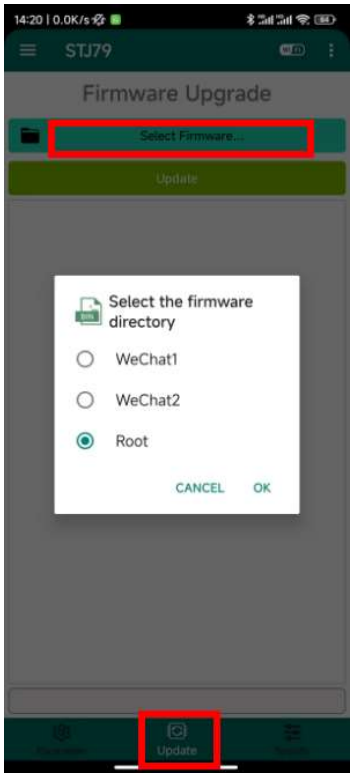
## 3.7 Radar Detection

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