



Portable Radar Speed Detector

Quick Start Guide

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Symbol Conventions

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

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

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Chapter 1 Introduction

1.1 Product Introduction

Portable radar speed detector (hereinafter referred to as the "device") integrates speed detection, image processing, smart analysis, license plate recognition, and target capture. The device supports radar-based speed detection with a removable lithium battery, which is unaffected by lighting conditions and is easy to carry.

It can be installed on the roadside to capture traffic incidents (such as speeding and low-speed driving) of passing vehicles.

1.2 Key Features

- High quality imaging with high resolution.
- All-in-one design, integrating camera, radar, and supplement light.
- Convenient debugging with a touch screen.
- Wide range of speed detection.
- Large storage capacity.
- Supports speed detection with built-in radar.
- Supports license plate recognition (LPR).
- Removable built-in lithium battery for power supply.

1.3 Overview

The device appearance is shown as below.



The device appearance may vary with device model. The actual device shall prevail.

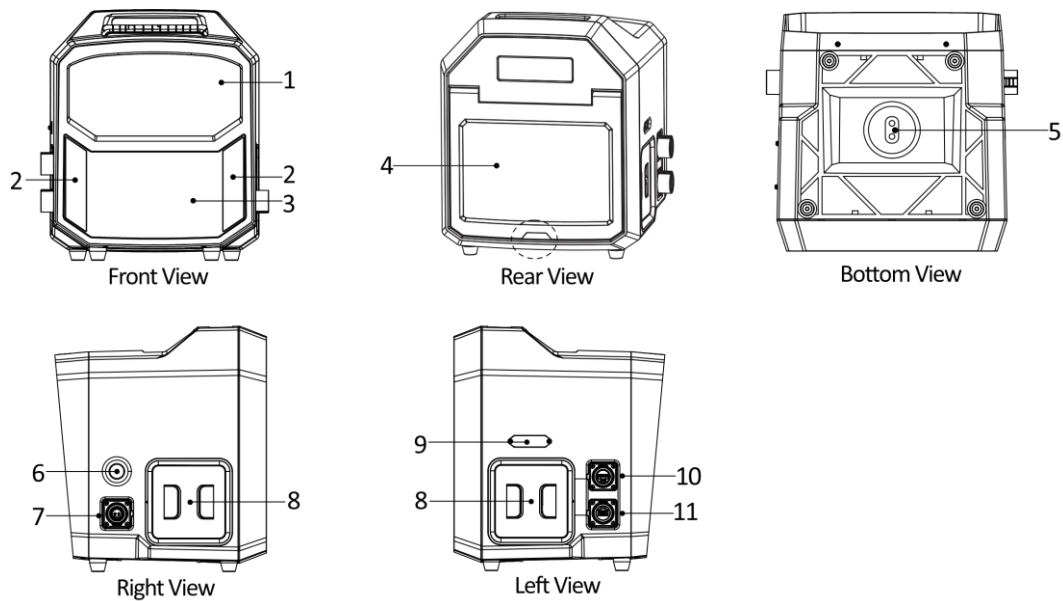


Figure 1-1 Device Appearance

Table 1-1 Appearance Description

No.	Description	No.	Description
1	Built-in camera.	2	Built-in supplement lights.
3	Radar.	4	Built-in touch screen that automatically lights up after activation. Open the cover for operation and configuration.
5	Two 1/4 UNC for tripod installation.	6	Power button. Hold it to turn on or off. For indicator status, refer to Table 3-1 Power Indicator Status Description .
7	Multi-function port (supports 12 VDC charging, RS-485, and supplement light interface)	8	Two 13.2 Ah, 7.27 V lithium batteries.
9	Built-in SIM card slot for SIM card installation.	10	USB 3.0 port for data export.
11	Network interface.	/	/

Note

Avoid looking directly at the supplement light when it is on, as it may cause eye injury. When installing or maintaining the device without appropriate protection (such as wearing sunglasses), you must be outside the safe distance or in an area not directly illuminated by the light source.

Chapter 2 Preparation

2.1 Packing List

Open the package and check whether all the accessories are included. If something loses, contact us or our supplier.



Note

Please purchase optional accessories as needed. The following figure is for illustration only. Please refer to the actual device.

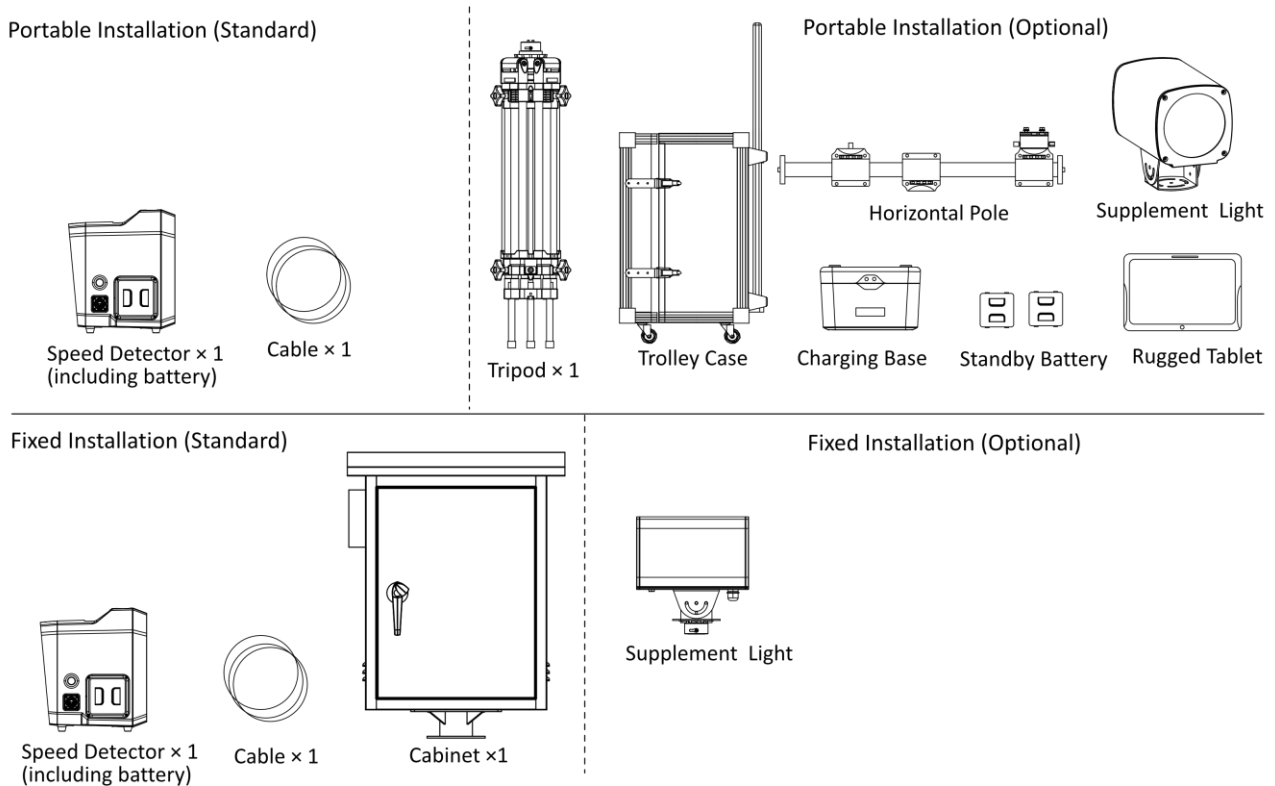


Figure 2-1 Packing List

2.2 Installation Requirements

2.2.1 Safety Precautions

- All electrical work must comply with the latest electrical regulations, fire safety regulations, and other relevant rules applicable in the location of use.
- Disconnect all relevant power supplies before installation.
- Sufficient safety warning barriers shall be placed around the construction area.

- Construction personnel must wear reflective vests and safety helmets as required. Entry to the construction site is strictly prohibited for individuals wearing sandals, slippers, or under the influence of alcohol.
- During rainy or snowy weather, water, ice, frost, and snow should be promptly cleared. Reliable anti-slip, cold-proof, and anti-freezing measures must be implemented. Work should be suspended in the event of strong winds exceeding level 6 or other severe weather conditions.
- Place warning signs and reflective cones in the construction area to ensure safety. Reflective cones should be arranged in a gradual diagonal line starting from the farthest point of the construction site, giving drivers sufficient time to gradually redirect their vehicles along the cones to other lanes.

2.2.2 Recommended Installation Position

The device should be installed on the roadside where speed detection is required. The recommended installation height is 1.5 m, approximately 1 m away from the first lane, with the radar module at a 20° angle to the lane.

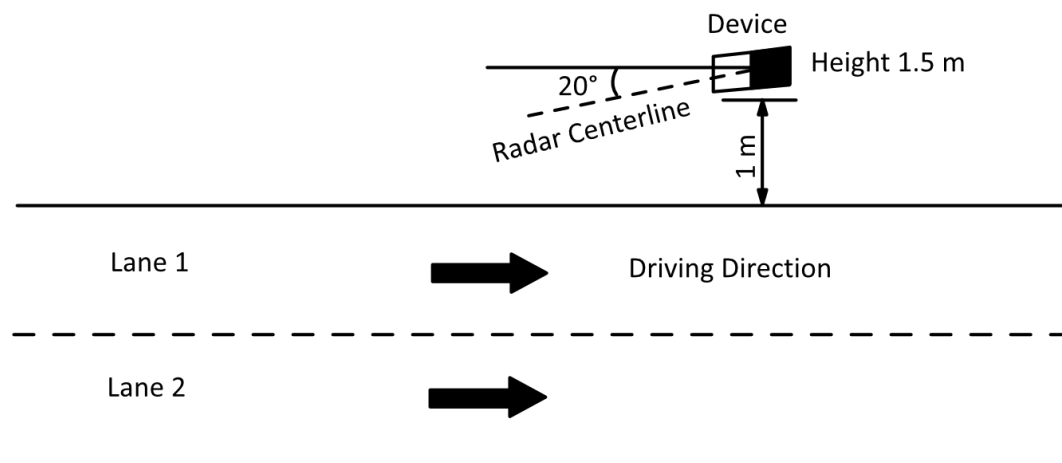


Figure 2-2 Recommended Installation Position

Note

Adjust the installation position and angle of the device according to on-site requirements.

Chapter 3 Installation

3.1 Install Battery



Caution

- Place the device on a flat surface. Keep the device horizontal when inserting or removing the batteries from the side.
- The device requires two batteries to function properly.

Insert the two batteries horizontally into the battery slots on each side of the device until you hear a clicking sound, and then tighten the 4 screws.

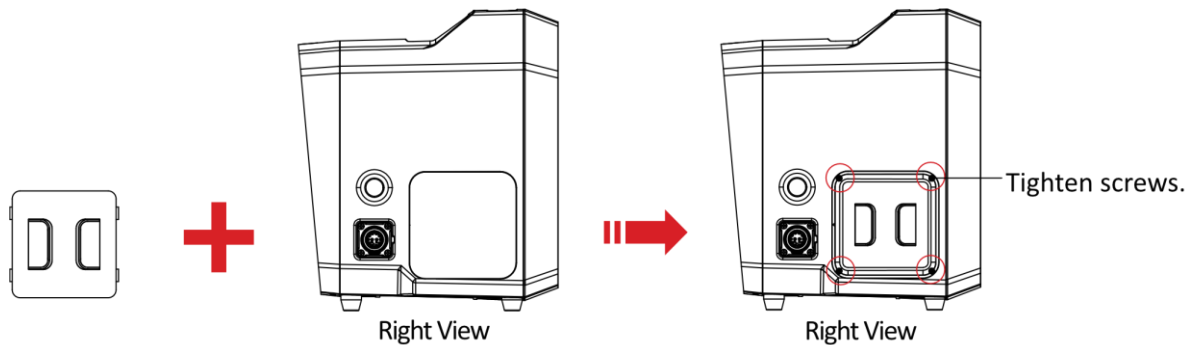


Figure 3-1 Install Battery

To remove the batteries, remove the 4 screws, place your fingers in the battery grooves as shown below, press firmly to release the batteries, and then pull them out horizontally.

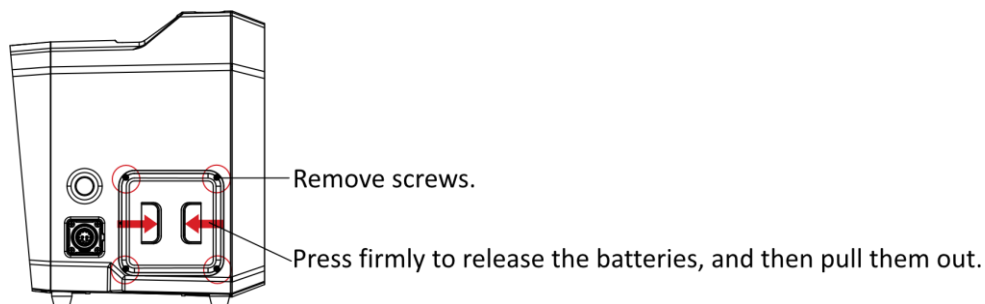


Figure 3-2 Remove Battery

3.2 Charge Battery

Fully charge the batteries before using the device for the first time.

Before You Start

Ensure the batteries are installed correctly.

 Caution

The charging ambient temperature is 0 °C to 35 °C. Charging at high temperatures may affect battery performance and lifespan.

Step 1 Insert the aviation connector into the device's multi-function port.

Step 2 Connect the 12 VDC power adapter to the power interface, and plug the adapter into a power outlet for charging.

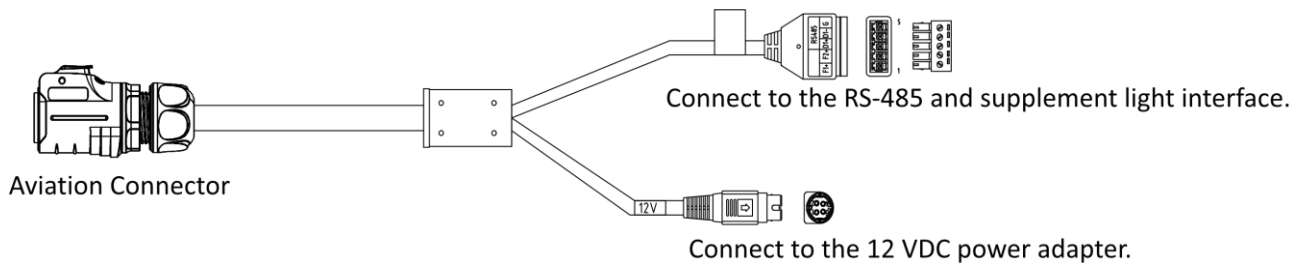


Figure 3-3 Charging Cables

What to do next

After the batteries are fully charged, hold the power button on the right side to turn on the device. You can check the device status via the power indicator below.

Table 3-1 Power Indicator Status Description

No.	Device Status	Operation	Indicator Status	Description
1	Power Off	Hold Power Button	Solid Red	Powering on...
2			Flashing Red	Battery too low to power on. Both batteries are below 5%. Please charge.
3			Flashing Green	Left battery is not connected.
4			Flashing Blue	Right battery is not connected.
5		Connect to Adapter	Flashing Blue	Charging battery...
6			Solid Blue	Battery fully charged.
7	Power On	/	Solid Green	Working normally...
8			Solid Red	Upgrading MCU...
9		Connect to Adapter	Solid Green with Flashing Yellow	Charging battery...
10			Solid Yellow	Battery fully charged.
11			Solid White	Charging battery... (device is in long-term charging strategy).
12		Hold Power Button	Solid Red	Powering off...

3.3 Install SIM Card

Insert a Nano-SIM card into the device for dial-up.



Caution

Turn off the device before installation.

Step 1 Remove the two screws on the SIM card cover with a screwdriver, and remove the cover.

Step 2 Insert the SIM card horizontally into the slot along the direction indicated by the printed markings.

Step 3 Replace the cover, and tighten the screws. Ensure the cover is flush with the device surface to guarantee sealing.

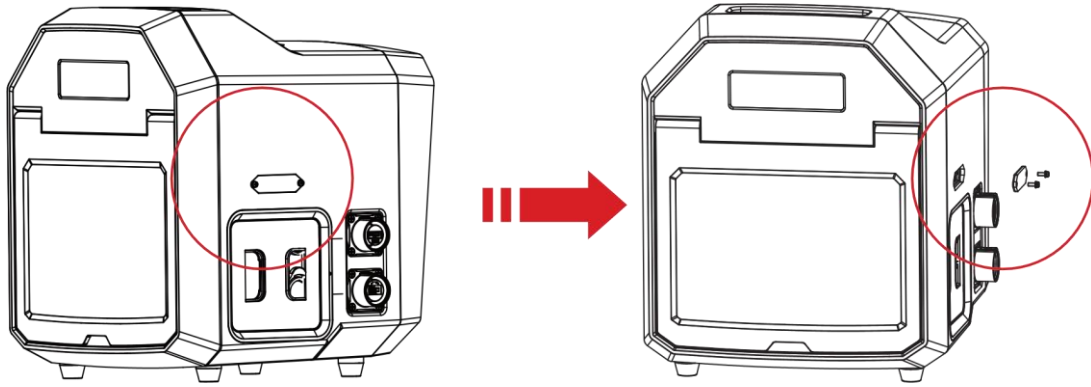


Figure 3-4 Install SIM Card

3.4 Install Device

3.4.1 Portable Installation

The device can be installed on a tripod for flexible deployment. You may choose to install the device separately or install it together with a supplement light on a horizontal pole.

Before You Start

- Ensure the device is fully charged and can start up normally.
- Log in to the device's web interface by referring to the User Manual. Check that the live view image and key control operations are normal after login.
- Please prepare the tripod and supplement light by yourself.

Caution

- Turn off all the relevant power supplies.
 - The installation site must be horizontal with no slope to ensure tripod stability.
 - Make sure the device is firmly in place.
-

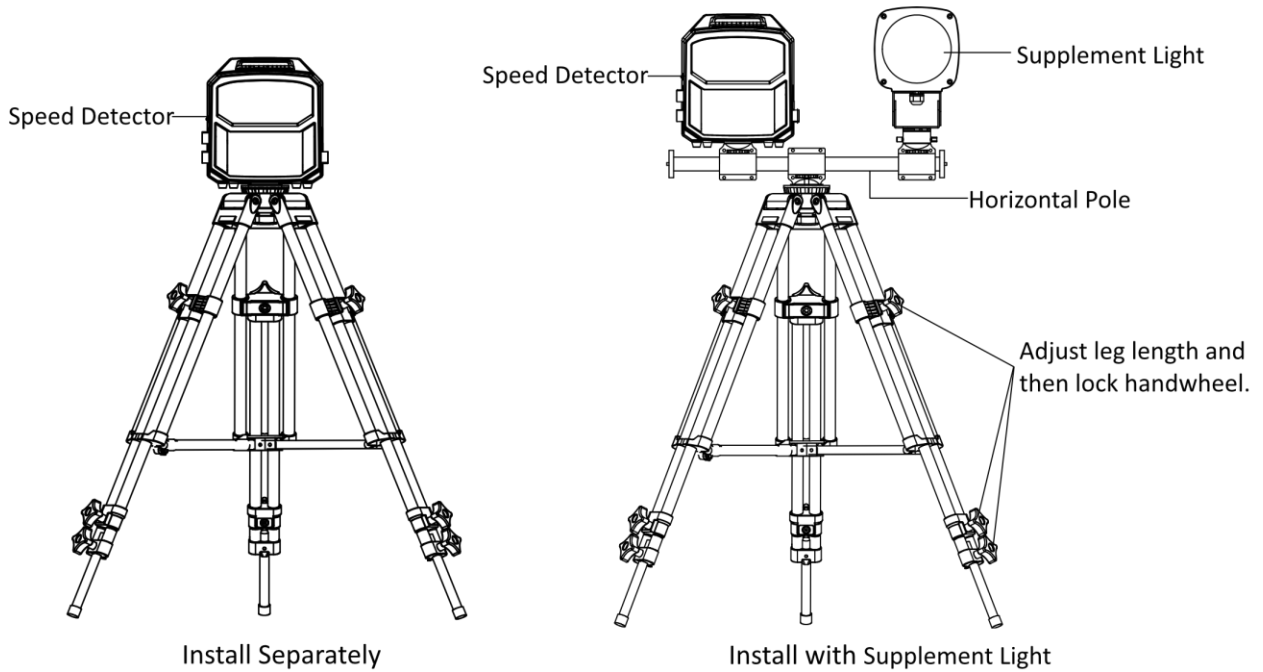
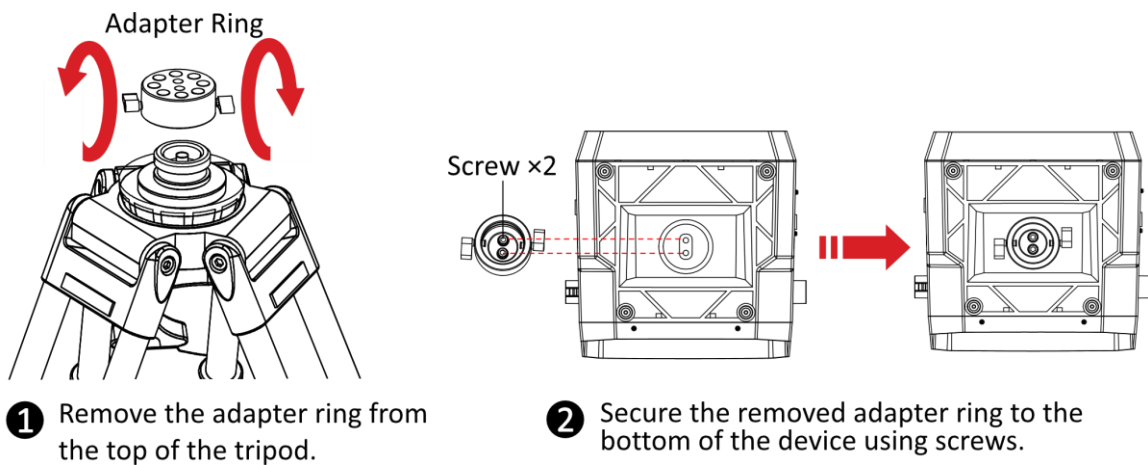
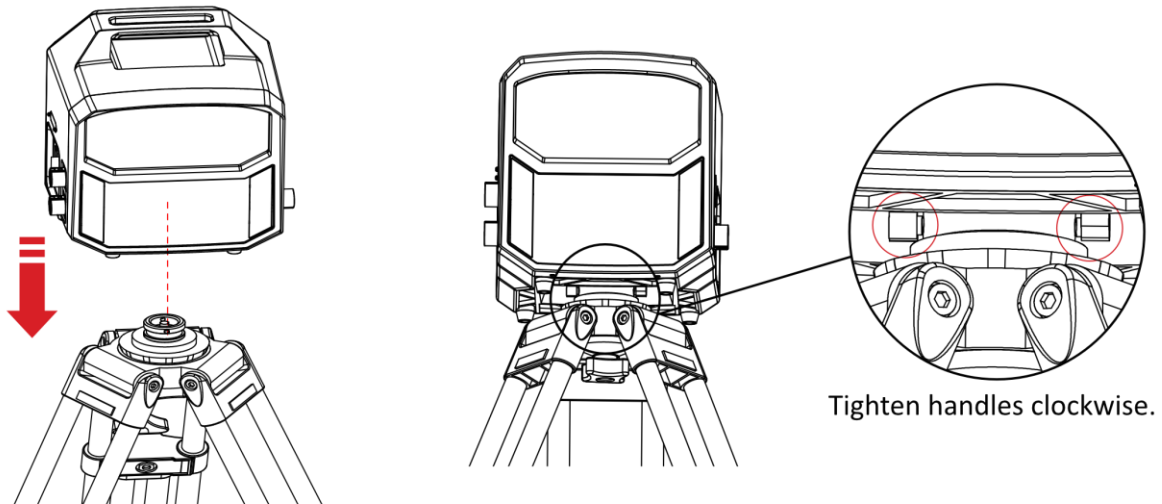


Figure 3-5 Installation Mode

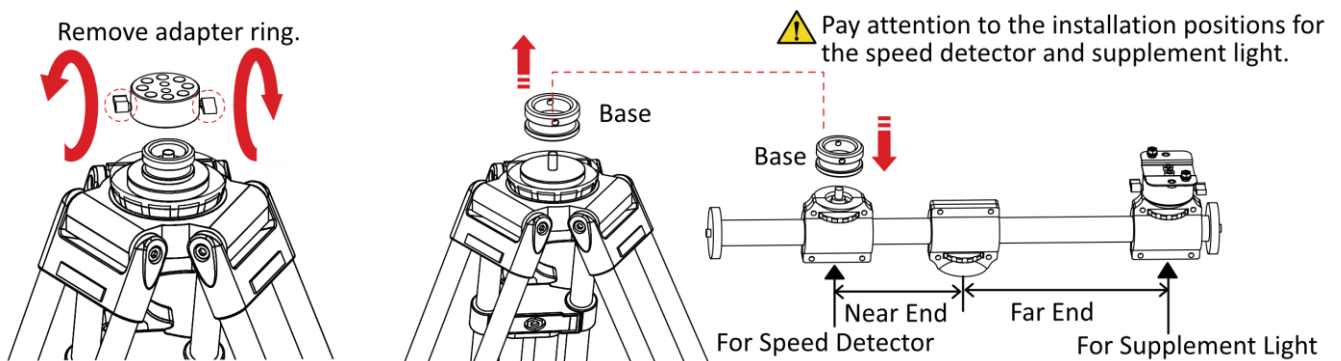
Install Separately





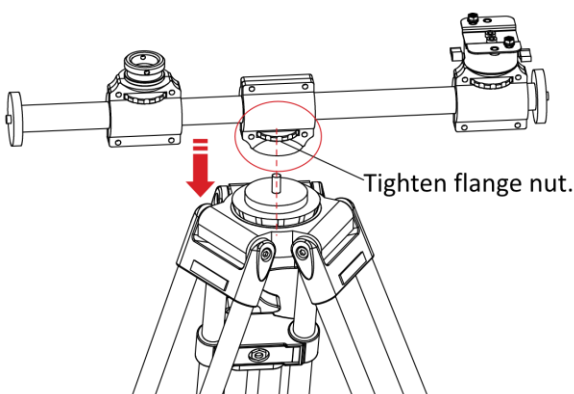
- 3** Attach the device to the tripod, and tighten the handles on both sides of the adapter ring.

Install with Supplement Light

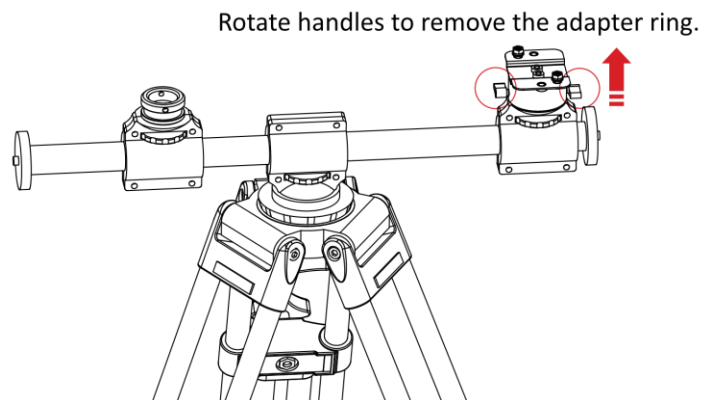


- 1** Remove the adapter ring from the tripod by rotating handles counterclockwise.

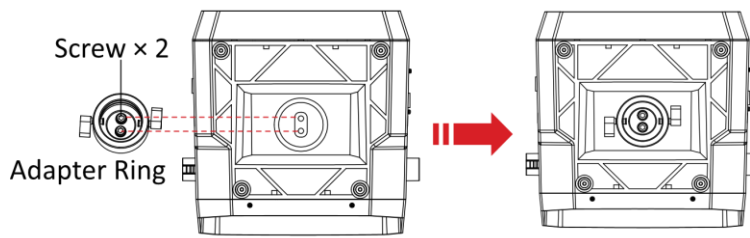
- 2** Rotate the base counterclockwise to remove it, and fix it to the horizontal pole.



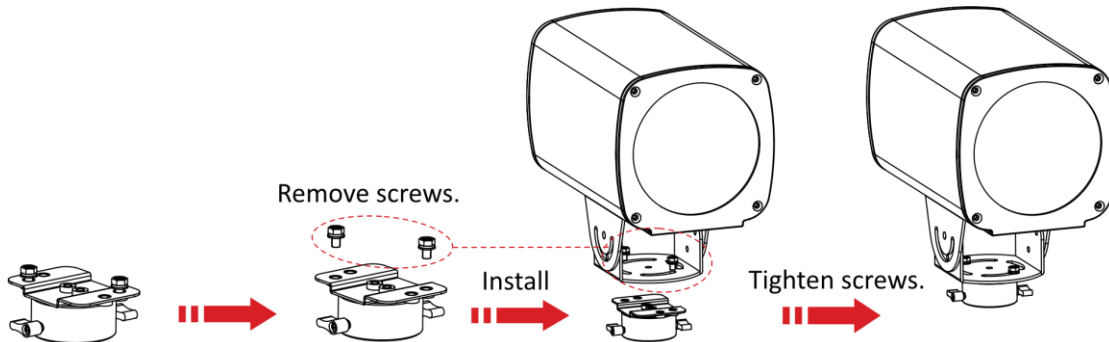
- 3** Attach the horizontal pole to the tripod, and tighten the flange nut clockwise.



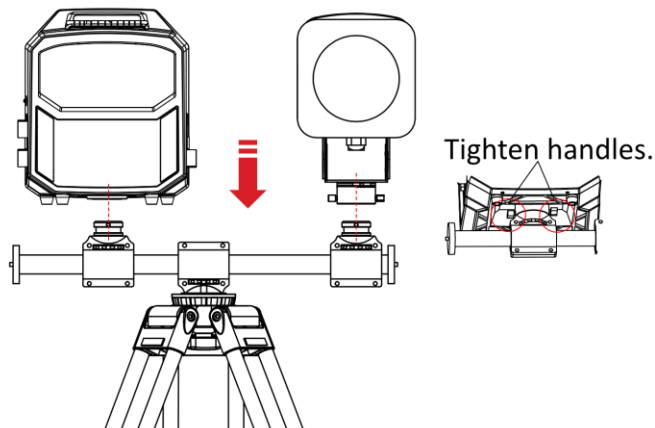
- 4** Remove the adapter ring from the pole by rotating handles counterclockwise.



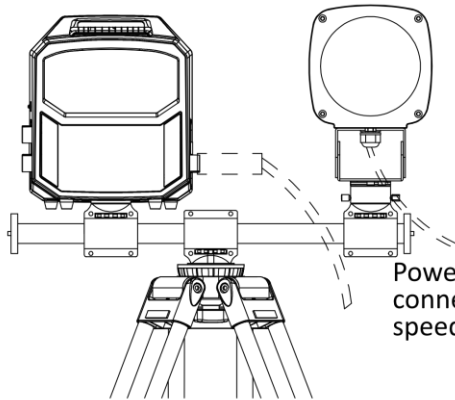
- 5** Install the adapter ring removed from the tripod to the bottom of the device, and fix it using screws.



- 6** Install the adapter ring removed from the horizontal pole to the bottom of the supplement light, and then tighten it with the 2 M6 screws.



- 7** Install the supplement light and the device to the pole, and secure them by adapter ring handles.

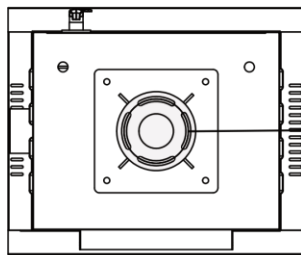


Power the supplement light with a self-supplied battery, and connect its signal cable (flash connector) to the F port of the speed detector.

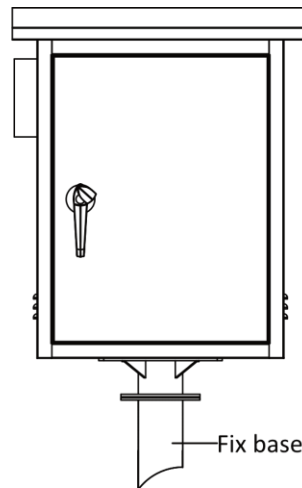
- 8 Connect the cables and power on the device.

3.4.2 Fixed Installation

The device can be installed in a cabinet located in the middle of the road or on the roadside.

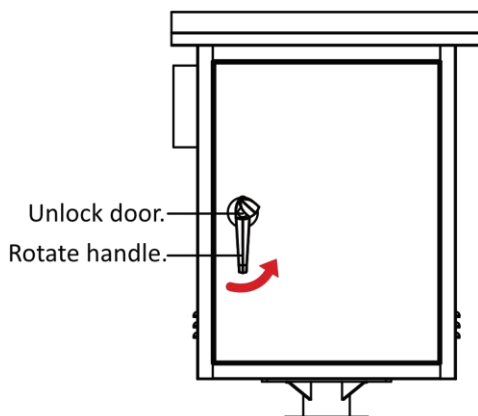


Cabinet Mounting Flange

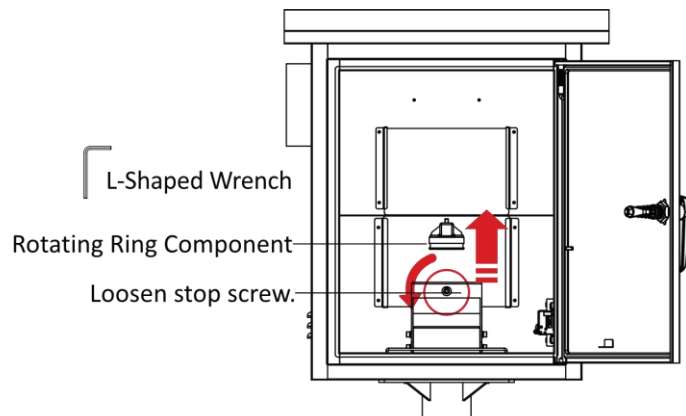


Fix base with 4 M8 screws.

- 1 Fix the cabinet to the installation position using 4 M8 screws (prepare screws according to the installation height).

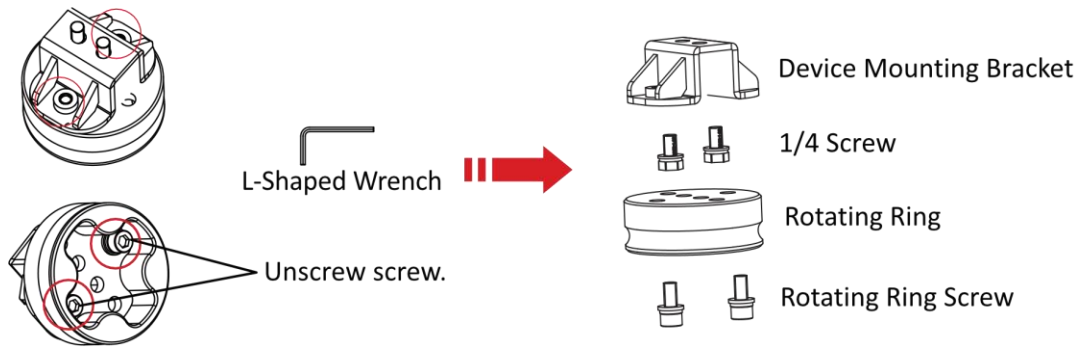


Unlock door.
Rotate handle.

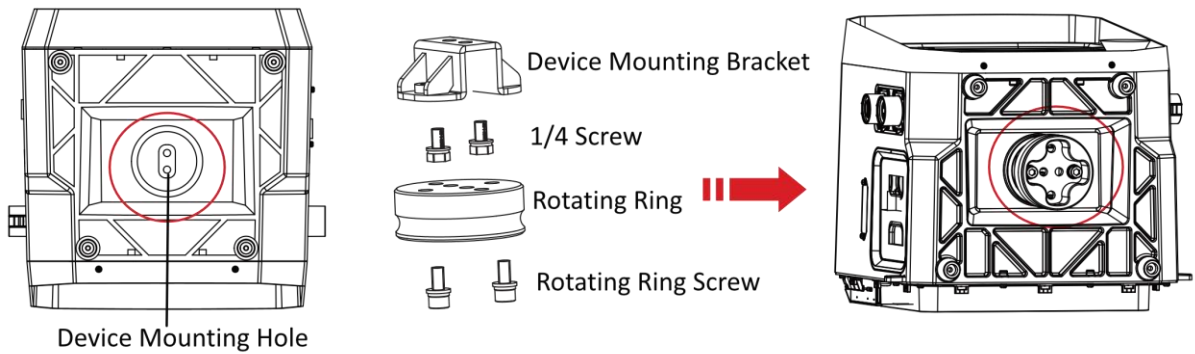


L-Shaped Wrench
Rotating Ring Component
Loosen stop screw.

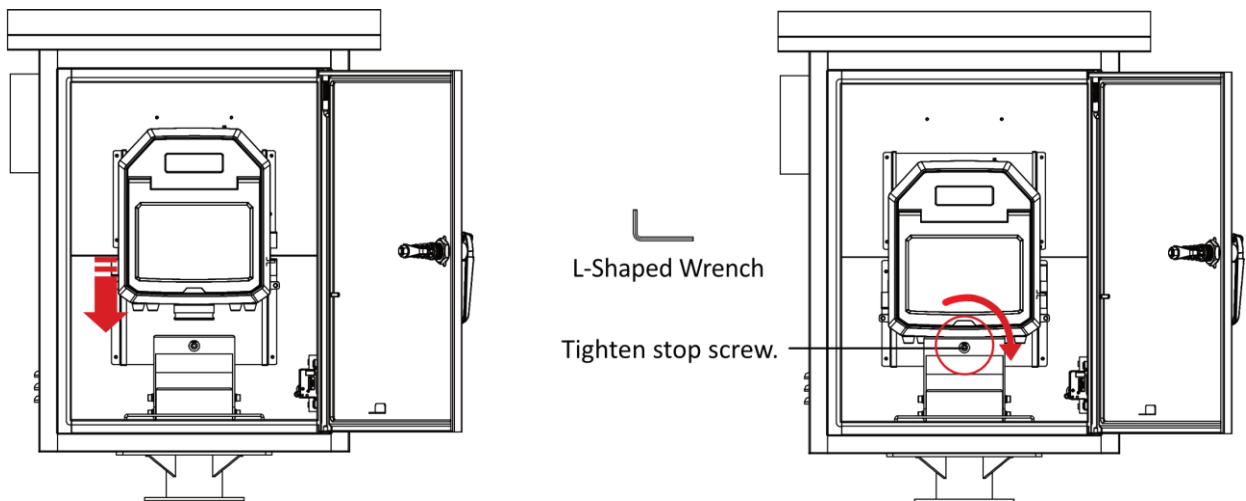
- 2 Open the cabinet door with the key, and remove the rotating ring component.



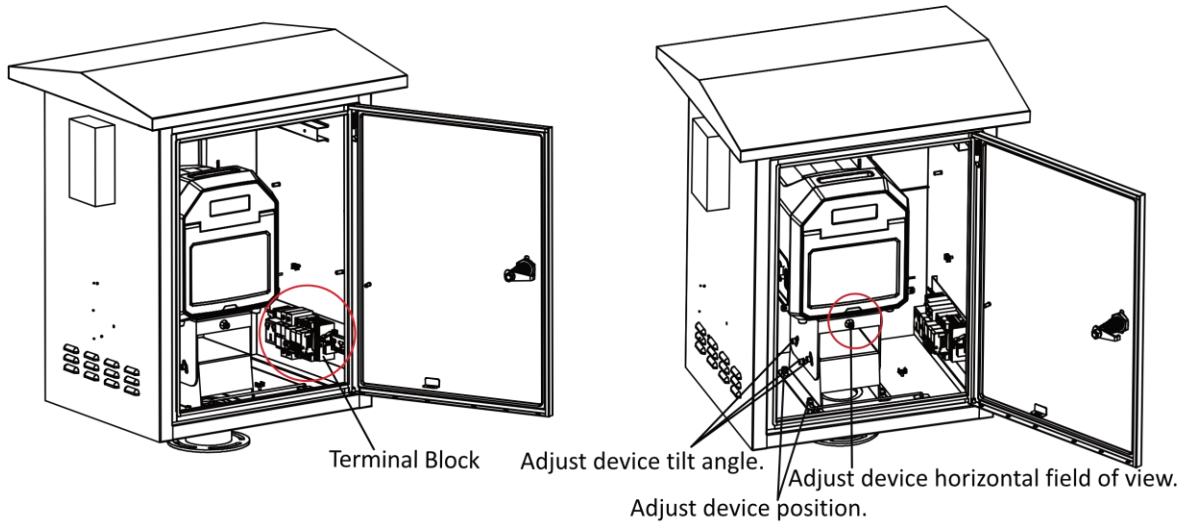
- 3** Disassemble the rotating ring component.



- 4** Install the disassembled rotating ring component to the bottom of the device.



- 5** Install the device onto the bottom of the cabinet.



6 Connect the power cable to the device and cabinet terminal block, and connect the network cable.

7 Loosen the screws with the wrench to adjust the device position and angle, and tighten the screws.

! Caution

After debugging the device, waterproof the cables and close the lock hole cover to prevent rust or blockage by foreign objects.

Chapter 4 Detailed Configuration

Scan the QR code below to get the user manual for detailed configuration.



Figure 4-1 User Manual QR Code



See Far, Go Further