



# Axles Counting Trinocular Camera

Quick Start Guide

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## Symbol Conventions

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

| Symbol                                                                                           | Description                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <b>Note</b>    | Provides additional information to emphasize or supplement important points of the main text.                                                                   |
|  <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>Danger</b>  | 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

Axles Counting Trinocular Camera (hereinafter referred to as "device") is equipped with three built-in cameras that can capture and stitch images to provide a complete vehicle view. It supports license plate recognition, vehicle axle counting, truck classification, etc. The device is widely applied to toll collection scenarios at entrances and exits.

## 1.2 Key Features

- Built-in three cameras with CMOS low-illumination sensors. The three lenses are fixed-focal.
- Supports recognition of vehicle axels, lift axles, and tires via video detection.
- Captures and provides images of the vehicle's front and rear, as well as a complete side-view image of the vehicle's extended body.
- Supports vehicle capture and related features, including motor vehicle capture and LPR.
- Adjustable built-in supplement light.
- The overlay information on both videos and captured images is configurable.

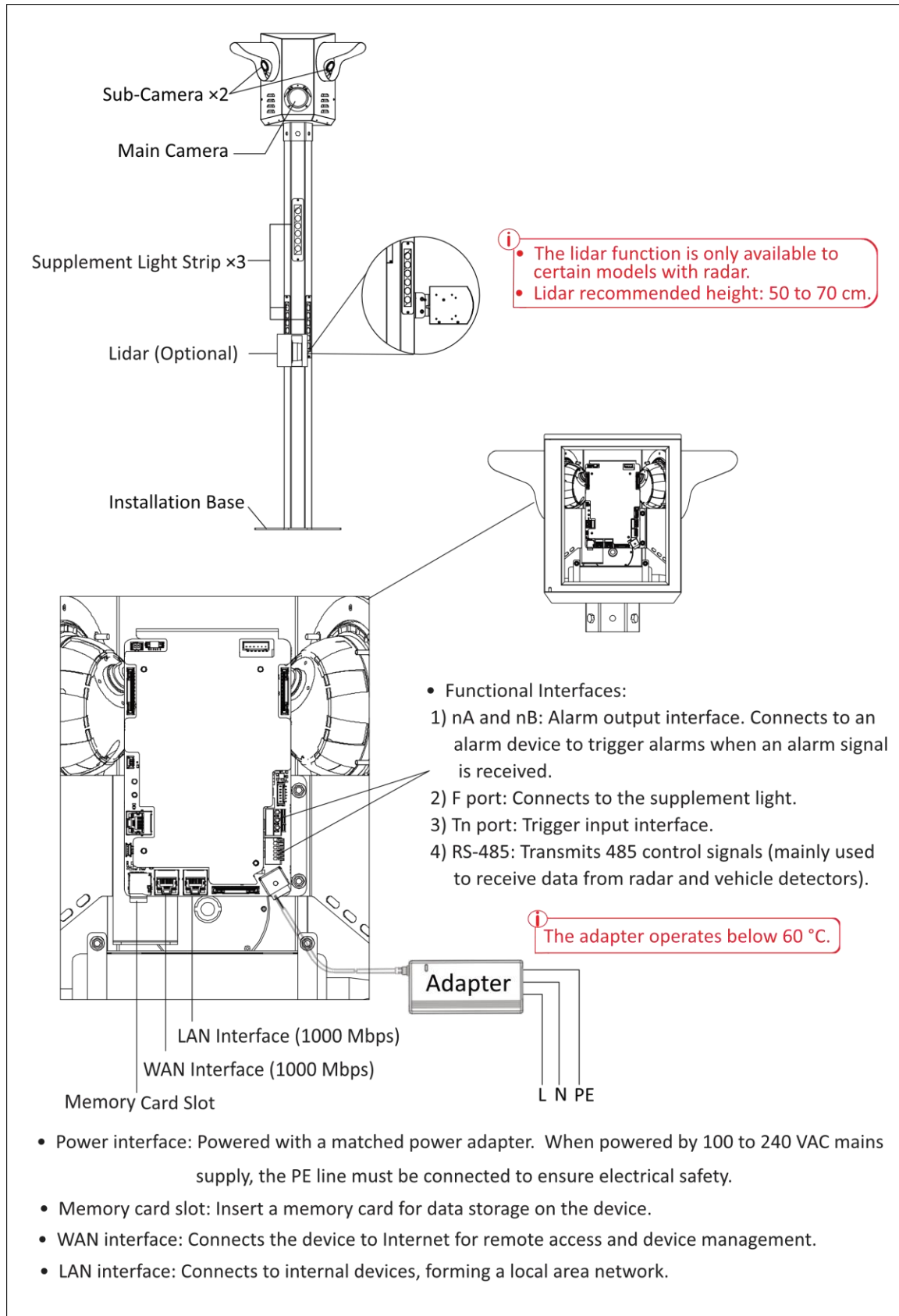
## 1.3 Interface Description

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### Caution

- When powered by 100 to 240 VAC mains supply, the PE line must be connected to ensure electrical safety.
  - Do not look directly at the light source of the device with laser, as it may cause discomfort or damage to your eyes.
-



## Chapter 2 Installation



### Note

The following illustration is for reference only. The actual device shall prevail.

### 2.1 Before Installation

- Lay the cables that need to be connected, including the network cable, power cord, etc.
- The recommended installation position is as follows (taking a single lane as an example).

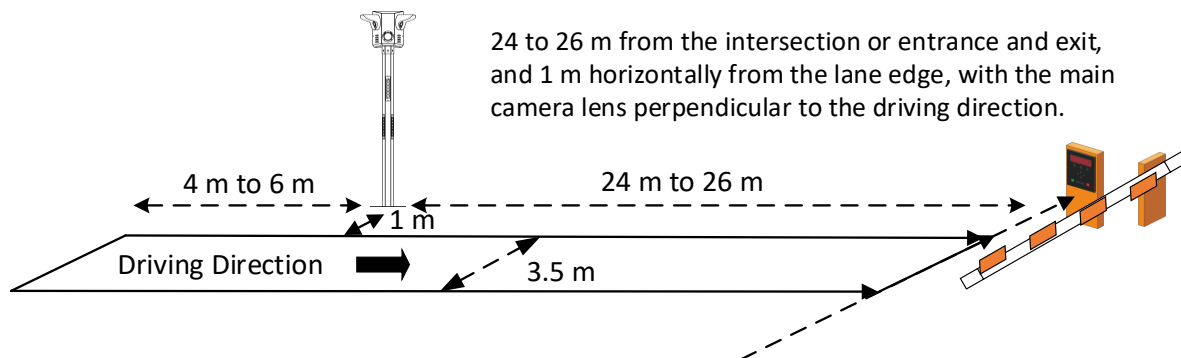


Figure 2-1 Deployment Position

### 2.2 Install Sun Shield

#### Install Sun Shield for Sub-Camera

Use four M3 screws to install the sun shields for both sides of the sub-cameras respectively.

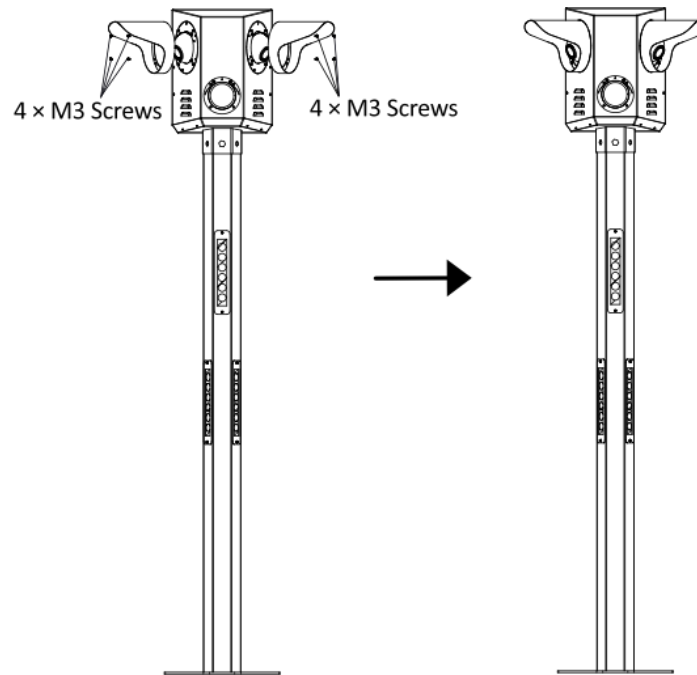


Figure 2-2 Install Sun Shields for Sub-Cameras

### Change Sun Shield for Main Camera

The device is supplied with both a long and a short sun shield. The short sun shield is installed on the main camera by default, and you can change it with the long one as needed.

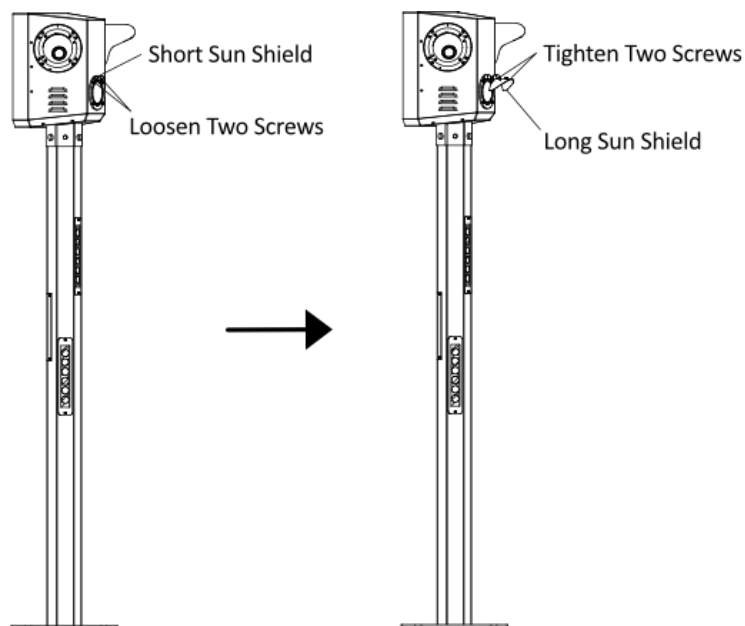


Figure 2-3 Change Sun Shield for Main Camera

## 2.3 Install Device

Fix the device to the ground using expansion screws or install it on a foundation.



**Caution**

Cut off power supply before installation.

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Step 1 Drill holes at the installation position according to the fixing holes at the bottom of the device.

Step 2 Insert three M12 expansion screws into the drilled holes, and tighten the nuts to secure the expansion screws in place, and then unscrew the nuts.

Step 3 Open the cable cover, route the cables through the cable entry hole and out from the wiring compartment, and then connect the power cord and network cable.



**Note**

Connect other cables as needed.

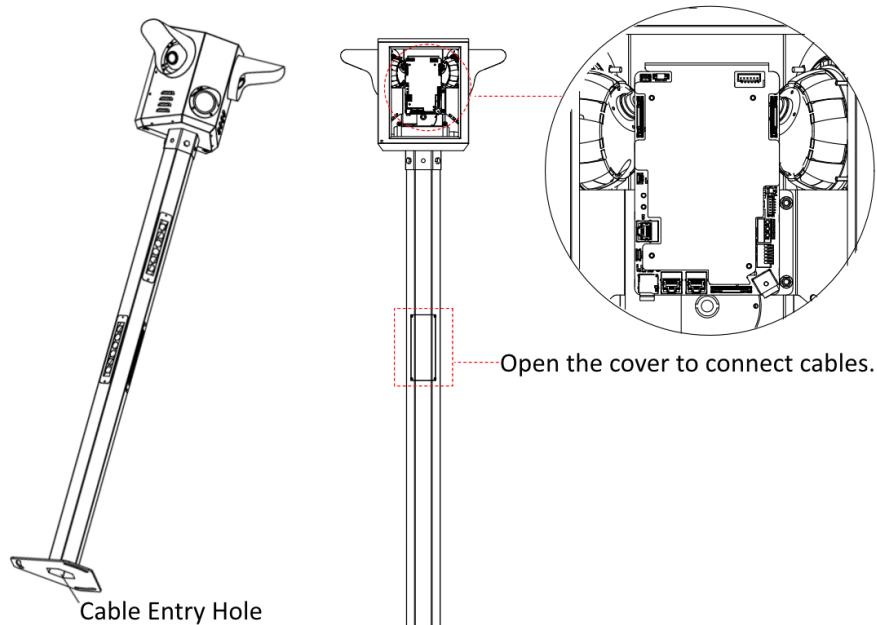


Figure 2-4 Connect Cables

Step 4 Power on the device and activate it to check the device installation view.



**Note**

Use a network cable to connect the device to a computer, and activate it via the computer. See the user manual for details.

Step 5 Insert three M12 expansion screws into the fixing holes at the bottom of the device, and tighten the nuts to fix the device.

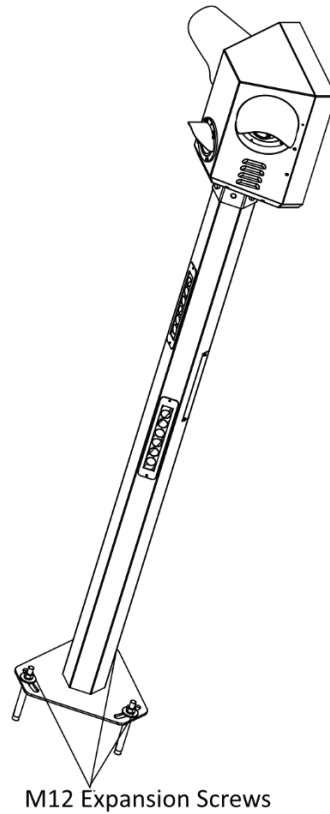


Figure 2-5 Fix Device

 **Note**

Hold the device with your hands until it is securely fixed.

Step 6 Adjust the angle of the sub-cameras. Loosen (do not remove) the four lens fixing screws, rotate the lens to the desired position, and tighten the screws.

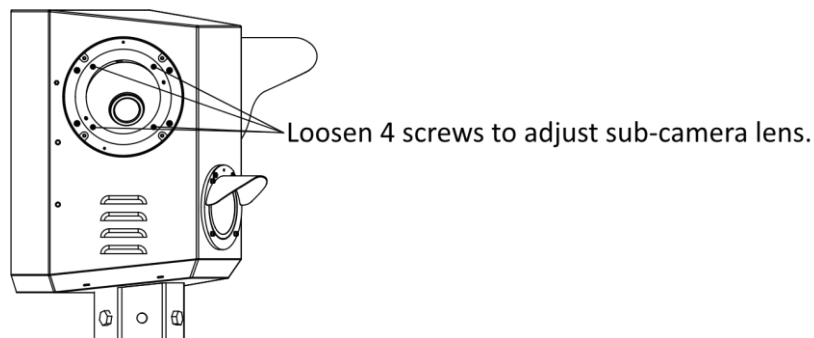


Figure 2-6 Adjust Sub-Camera Angle

## 2.4 Install Bracket (Optional)

You can add a bracket to increase the device height if necessary.

Step 1 Fix the bracket to the device base using nuts and screws.

Step 2 Drill holes at the installation position according to the holes of the bracket base with a dimension of 14 mm.

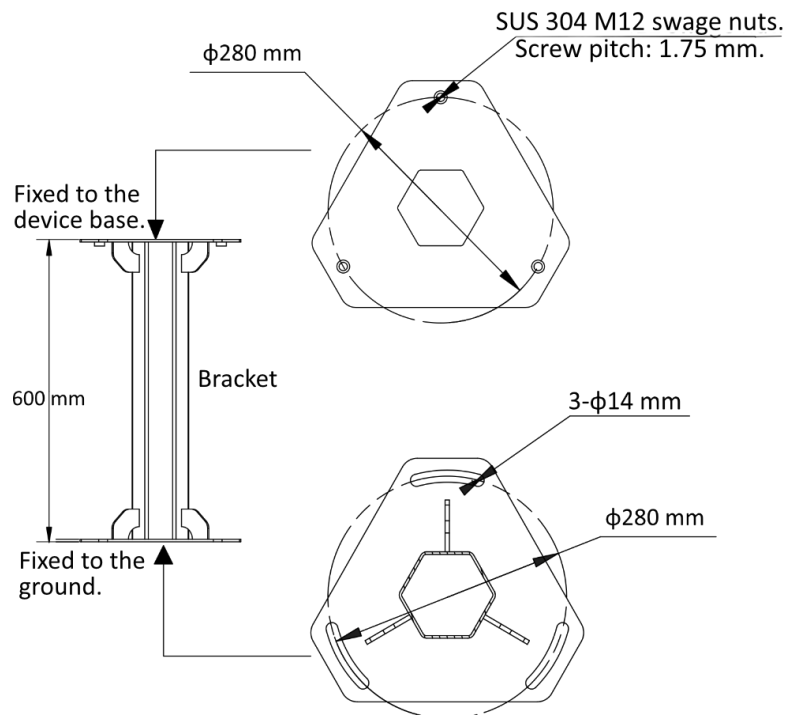


Figure 2-7 Install Bracket

Step 3 Fix the bracket to the ground using the bolt components supplied with the bracket.

## Chapter 3 Detailed Configuration

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



Figure 3-1 User Manual QR Code

