



Dual-Sensor ANPR All-Rounder Traffic 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
 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.

Chapter 1 Introduction

1.1 Product Introduction

Dual-Sensor ANPR All-Rounder Traffic Camera (hereinafter referred to as "device") integrates dual lenses, and supports auto-focus and radar and video fusion speed detection. Equipped with built-in deep learning algorithms, it supports license plate recognition, multi-target-type detection, traffic incident detection and capture, violation capture, and traffic flow collection.

The device can be widely applied in urban roads, highways, and other scenarios for incident detection and target capture.

1.2 Key Features

- High-quality and low-illumination imaging.
- Built-in millimeter-wave radar in the high-frequency range.
- Excellent low-light performance.
- All-in-one design, integrating camera, radar, and supplement light.
- Supports vehicle feature recognition, including vehicle type/color/manufacturer/license plate color recognition, and vehicle without license plate capture.
- Supports violation detection, including driving on lane lines, lane change, wrong-way driving detection, seatbelt detection, and phone call detection.
- Built-in deep learning algorithms, supporting intelligent recognition functions, license plate recognition (LPR), and multi-target-type detection.

1.3 Cable Description

The cables and interfaces are as shown in the figure below.

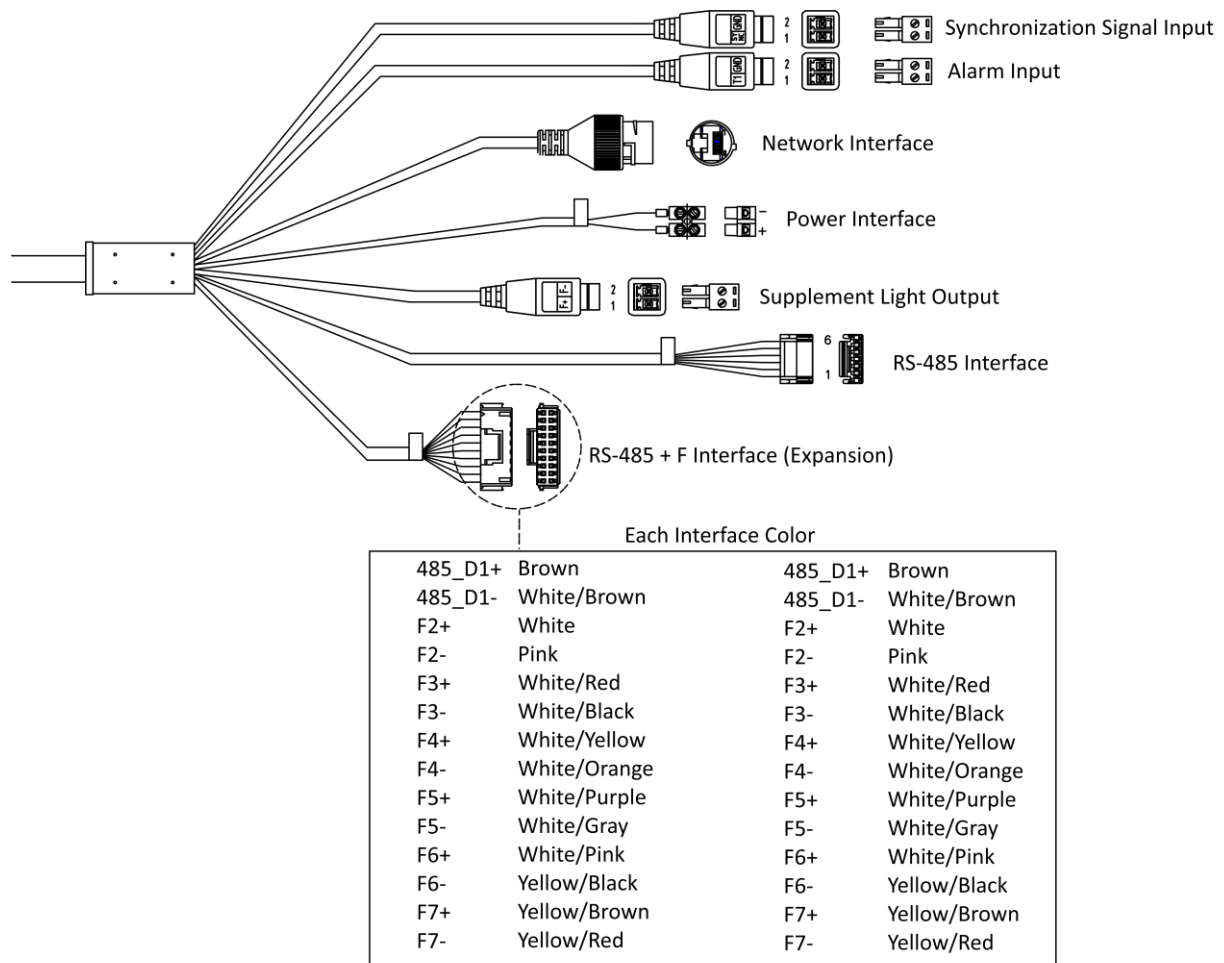


Figure 1-1 Cables and Interfaces

Chapter 2 Installation

When you receive the product, check whether there is obvious damage on the product package and its appearance first. Then open the package and check whether all the accessories are included. If something is lost, contact us or our supplier.

2.1 Installation Environment

- Make sure that there is enough space at the installation position to accommodate the device and its mounting accessories.
- Avoid overhead high-voltage cables to prevent device interference, construction inconvenience, or unnecessary disputes.
- Avoid high-voltage cables, communication optical cables, and pipes when laying cables underground.
- Do not install the device in low-lying areas to avoid flooding.
- Avoid private land such as houses and shops to prevent human interference during construction.
- The installation position should not be obscured by roadside street signs or tree branches and leaves.

2.2 Install TF Card

Before you start

Please prepare the TF card by yourself.

Step 1 Open the card slot cover, and insert the TF card along the card slot direction.

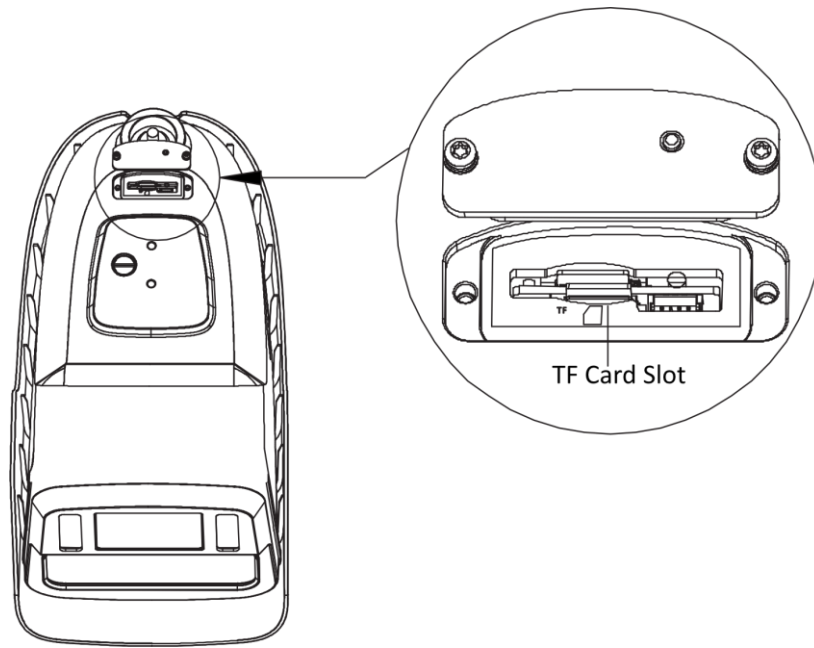


Figure 2-1 Install TF Card

Step 2 Replace the card cover, and tighten the screws to ensure sealing.

Step 3 (Optional) To take out the card, press the card until the card pops out automatically, and then pull out the card.

2.3 Install Device

Install the device on a horizontal pole at road segments or intersections for target detection and incident detection.

Before you start

Lay the cables that need to be connected, including the network cable, power cord, signal cable, etc.

Caution

- Cut off power supply before installation.
 - Be sure to fix the device firmly on the installation position, and make safety precautions if necessary. Check regularly. Device falling may cause serious personal injury or death.
 - Check the power supply voltage to prevent any device damage caused by inconsistent voltage levels.
-

Step 1 Fix the device to the horizontal pole.

- 1) Wrap the waterproof hose around the device's external cables, and secure it into the screw hole.

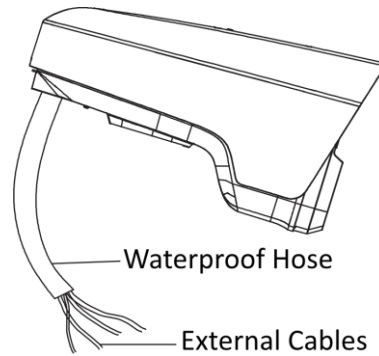


Figure 2-2 Install Waterproof Hose

- 2) Unscrew the 12 screws to disassemble the universal joint. Attach Surface A and PT Joint of the universal joint to the device's bottom in sequence, and fix Surface B to the hoop bracket.
- 3) Secure the hoop bracket to the horizontal pole, and then fasten PT Joint to Surface B using 6 screws to complete the installation.

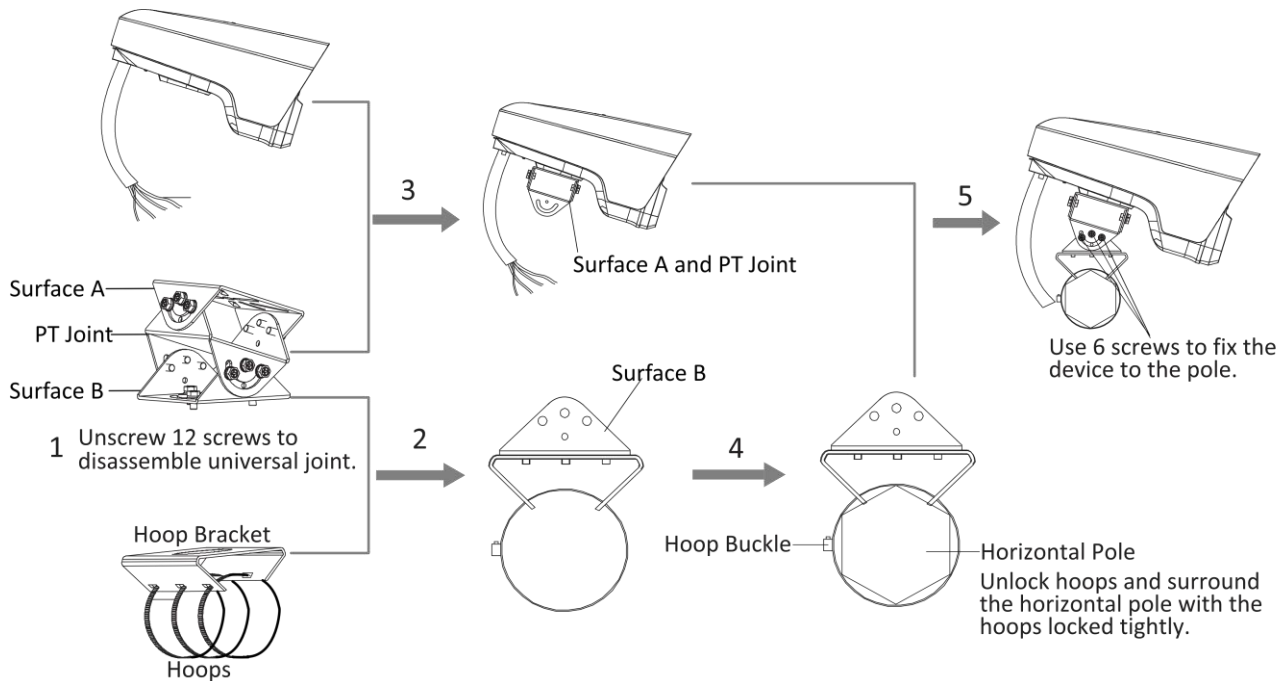


Figure 2-3 Install Device

Caution

Attach the device safety rope first to prevent accidental falling during installation.

Step 2 Connect the cables.

Note

Prepare a junction box by yourself, or choose method 2 for direct wiring (for professionals only).

- Method 1 (with junction box):

1) Install the junction box as shown in the figure below.

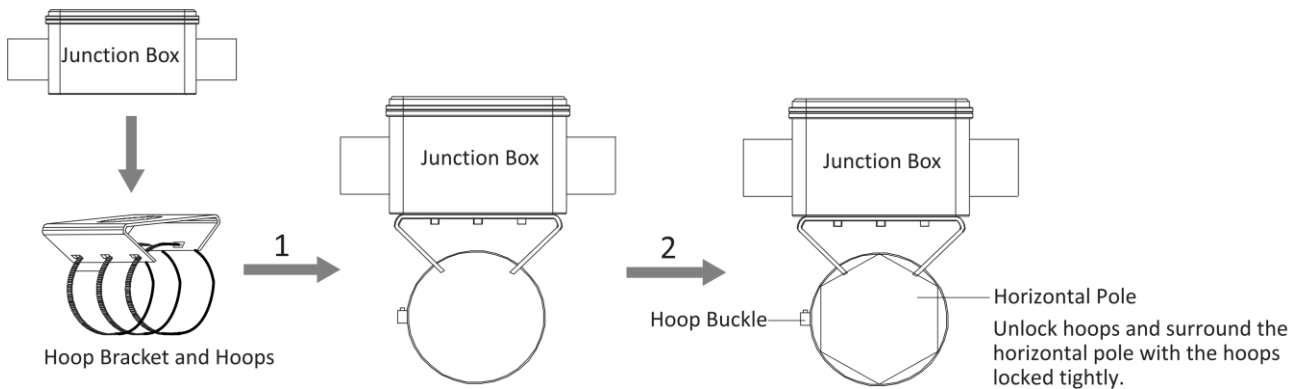


Figure 2-4 Install Junction Box

2) Route the external cables into the junction box, and fasten the other end of the waterproof hose to the junction box.

3) Connect the cables inside the junction box.

- F interfaces: Alarm output.
- GND: Used for grounding.
- RS-485 interfaces: Reserved.

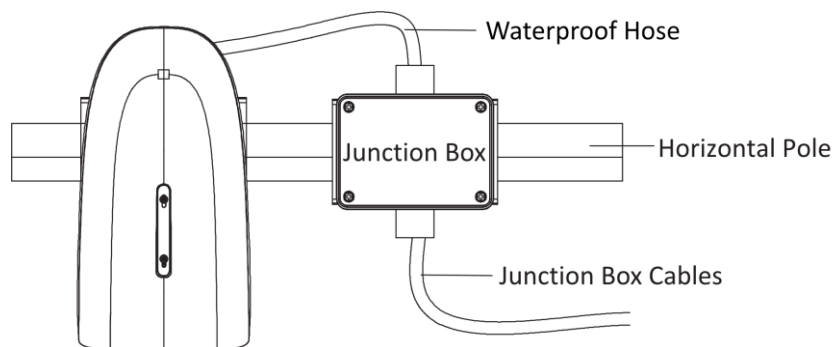


Figure 2-5 Connect Cables

- Method 2 (without junction box):

1) Cut off the synchronization signal input connector.

2) Connect the cables according to their corresponding functions. Refer to [Figure 1-1 Cables and Interfaces](#) for details.

2.4 Start Up

After the installation and wiring is completed correctly, connect the power supply and start it up.



Note

If the device cannot start up normally, check if the cable connection is normal. If the problem persists, troubleshoot the cable wiring, etc.

Chapter 3 Detailed Configuration

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



Figure 3-1 User Manual QR Code



See Far, Go Further