

HD Intelligent Enforcement Camera



Quick Start Guide

V1.0.0

Foreword

General

This manual introduces the structure, installation, system networking, and initial configurations of the HD Intelligent Enforcement Camera (hereinafter referred to as the "Camera").

Safety Instructions

The following categorized signal words with defined meaning might appear in the manual.

Signal Words	Meaning
 DANGER	Indicates a high potential hazard which, if not avoided, will result in death or serious injury.
 WARNING	Indicates a medium or low potential hazard which, if not avoided, could result in slight or moderate injury.
 CAUTION	Indicates a potential risk which, if not avoided, could result in property damage, data loss, lower performance, or unpredictable result.
 TIPS	Provides methods to help you solve a problem or save time.
 NOTE	Provides additional information as a supplement to the text.

Privacy Protection Notice

As the device user or data controller, you might collect the personal data of others such as their face, audio, fingerprints, and license plate number. You need to be in compliance with your local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures which include but are not limited: Providing clear and visible identification to inform people of the existence of the surveillance area and provide required contact information.

About the Manual

- The manual is for reference only. If there is inconsistency between the manual and the actual product, the actual product shall prevail.
- We are not liable for any loss caused by the operations that do not comply with the manual.
- The manual would be updated according to the latest laws and regulations of related jurisdictions. For detailed information, refer to the paper manual, CD-ROM, QR code or our official website. If there is inconsistency between paper manual and the electronic version, the electronic version shall prevail.
- All the designs and software are subject to change without prior written notice. The product updates might cause some differences between the actual product and the manual. Please contact the customer service for the latest program and supplementary documentation.
- There still might be deviation in technical data, functions and operations description, or errors in print. If there is any doubt or dispute, we reserve the right of final explanation.
- Upgrade the reader software or try other mainstream reader software if the manual (in PDF format) cannot be opened.

Quick Start Guide

- All trademarks, registered trademarks and the company names in the manual are the properties of their respective owners.
- Please visit our website, contact the supplier or customer service if there is any problem occurring when using the device.
- If there is any uncertainty or controversy, we reserve the right of final explanation.

Important Safeguards and Warnings

This section introduces content covering the proper handling of the device, hazard prevention, and prevention of property damage. Read carefully before using the device, and comply with the guidelines when using it.

Transportation Requirements



Transport the device under allowed humidity and temperature conditions.

Storage Requirements



Store the device under allowed humidity and temperature conditions.

Installation Requirements



WARNING

- Do not connect the power adapter to the device while the adapter is powered on.
- Strictly comply with the local electrical safety code and standards. Make sure the ambient voltage is stable and meets the power supply requirements of the device.
- Do not connect the device to two or more kinds of power supplies, to avoid damage to the device.



- Personnel working at heights must take all necessary measures to ensure personal safety including wearing a helmet and safety belts.
- Do not place the device in a place exposed to sunlight or near heat sources.
- Keep the device away from dampness, dust, and soot.
- Put the device in a well-ventilated place, and do not block its ventilation.
- Use an adapter or cabinet power supply provided by the manufacturer.
- Please follow the electrical requirements to power the device.
 - ◊ Following are the requirements for selecting a power adapter.
 - The power supply must conform to the requirements of IEC 60950-1 and IEC 62368-1 standards.
 - The voltage must meet the SELV (Safety Extra Low Voltage) requirements and not exceed ES-1 standards.
 - When the power of the device does not exceed 100 W, the power supply must meet LPS requirements and be no higher than PS2.
 - ◊ We recommend using the power adapter provided with the device.
 - ◊ When selecting the power adapter, the power supply requirements (such as rated voltage) are subject to the device label.
- The device is a class I electrical appliance. Make sure that the power supply of the device is connected to a power socket with protective earthing.

Quick Start Guide

- An emergency disconnect device must be installed during installation and wiring at a readily accessible location for emergency power cut-off.
- Disconnect the device when installing and connecting the lens.

Operation Requirements



- Make sure that the power supply is correct before use.
- Operate the Camera within the rated range of power input and output.
- Use the device under allowed humidity and temperature conditions.
- Do not drop or splash liquid onto the device, and make sure that there is no object filled with liquid on the device to prevent liquid from flowing into it.
- Do not disassemble the device.
- Do not vibrate, squeeze or immerse the device in liquid during transportation, storage or installation.
- Do not block the ventilation near the device.
- Ground the function earthing portion of the device (grounding cable or lightning surge protector) to improve its reliability. The device is a class I electrical appliance. Make sure that the power supply of the device is connected to a power socket with protective earthing.

Maintenance Requirements



WARNING

- Pack the device with packaging provided by its manufacturer or packaging of the same quality before sending it back for repair.
- Please do not touch the photosensitive device with your hands. Use an air blower to clean off the dust and filth on the lens.
- Clean the surface of the device with a soft dry cloth or a clean soft cloth dipped in neutral detergent.
- Use the accessories suggested by the manufacturer. Installation and maintenance must be performed by qualified professionals.

Contents

Foreword.....	1
Important Safeguards and Warnings.....	3
1 Structure.....	6
1.1 Terminal.....	6
1.2 Rear Panel.....	7
2 Basic Configuration.....	9
2.1 System Network.....	9
2.2 Initialization.....	9
3 Installation.....	11
3.1 Accessories Package.....	11
3.2 Installing Sun Shade.....	11
3.3 Installing SD Card.....	12
3.4 Vertical Mounting.....	13
3.5 Horizontal Mounting.....	14
3.6 Adjusting Camera Angle.....	15

1 Structure

1.1 Terminal

A typical terminal is shown in the figure below.



Different devices might have different types of terminals, and the actual device shall prevail.

Figure 1-1 Terminal



Table 1-1 Description of terminal

Name	Description
F1+	Flashing light 1 triggers output F1+
F1-	Flashing light 1 triggers output F1-
F2+	Flashing light 2 triggers output F2+
F2-	Flashing light 2 triggers output F2-
F3+	Flashing light 3 triggers output F3+
F3-	Flashing light 3 triggers output F3-
F4+	Flashing light 4 triggers output F4+
F4-	Flashing light 4 triggers output F4-
F7+	Strobe synchronous output F7+
F7-	Strobe synchronous output F7-
A1	RS-485_A1
B1	RS-485_B1
L	AC 220V live wire
N	AC 220V neutral wire
PE	AC 220V earth wire

1.2 Rear Panel

Figure 1-2 Rear panel

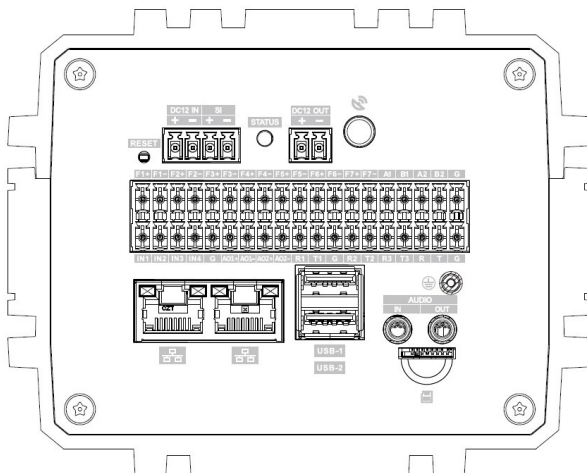


Table 1-2 Rear panel interfaces

Interface		Function
DC 12 IN	Power input interface	12 VDC input.
SI+, SI-	Synchronous input interface of external frequency source	The camera synchronizes with external signal source.
RESET	Reset button	Restore to factory settings. When the Camera runs normally (the power indicator light is blue), press and hold the RESET button for at least 5 seconds, and the Camera restores to factory defaults.
STATUS	Indicator light	Displays the activity status of the Camera. - The blue light keeps on: The Camera is running normally. - The red light flashes: The Camera is upgrading. - The red light keeps on: The Camera is in safety mode.
DC12 OUT	Power output interface	12 VDC output.
	Positioning	GPS/BeiDou positioning.
F1+, F1-, F2+, F2-, F3+, F3-, F4+, F4-, F5+, F5-, F6+, F6-, F7+, F7-	Ports for connecting external light	Connect to flashing light and strobe.

Quick Start Guide

Interface		Function
A1, B1	RS-485 ports	2 ports, connecting to signal detector, vehicle detector, radar, flashing light, strobe, and other illuminators.
A2, B2		2 ports, connecting to flashing light, strobe, and other illuminators.
G	GND	Ground terminal.
IN1, IN2, IN3, IN4	IO input	4 IO snapshot ports or 4 alarm input ports.
AO1, AO2	2-channel alarm output	Can be configured respectively as alarm output port and wiper output port.
R1, T1, G R2, T2, G R3, T3, G	3-channel radar port	Supports connecting 3 radars at the same time.
R	RS-232 port	RS-232_RX, RS232 port receiving terminal.
T		RS-232_TX, RS232 port transmitting terminal.
	2 network ports	2 100/1000 Mbps RJ-45 Ethernet ports with different MAC addresses.
USB-1/USB-2	2 USB ports	2 USB3.0 ports, reserved for expansion of 4G and Wi-Fi modules.
	GND	Ground this port to improve reliability of the Camera, otherwise the Camera might be exposed to lightning strikes.
AUDIO IN/OUT	Audio input/output	Audio input/output interface.
	TF card port	Connects TF card.

2 Basic Configuration

2.1 System Network

After mounting the Camera, power on the Camera, connect it to the network and make initial settings, then you can successfully log in to the webpage of the Camera. For more configurations, see the web operation manual.

Procedure

Step 1 Connect the Camera to network.

- 1) Connect the Camera to computer over the Ethernet cable.
- 2) Keep the IP address of the computer and the Camera on the same network segment.
The network segment can be set to 192.168.1.X, but cannot be the same with the factory default IP of the Camera (192.168.1.108).
- 3) Execute ping `***.***.***.***` (device IP) command on computer to check network connection.

Step 2 Enter the IP address of the Camera (192.168.1.108) in the browser address bar, and press the Enter key to log in to the webpage.

2.2 Initialization

The Camera is delivered in uninitialized status. You need to initialize the Camera and modify its default password. You can initialize the cameras one by one on camera webpage or in batches by using ConfigTool.

Procedure

Step 1 On the **Device Initialization** page, enter your new password.

Figure 2-1 Device initialization

Step 2 Select the **Email Address** checkbox, and then enter your email address. This helps you reset your password when your password is lost or forgotten.

Step 3 Click **Confirm**.

Quick Start Guide

Step 4 On the **Online Upgrade** page, you can cancel selecting **Auto-check for updates** (selected by default).

Step 5 Click **Confirm**.

Step 6 On the login page, enter the username (admin) and the password that you set.

Step 7 On the **Config Guide** page, set the business type and road mode.

- **Business Type** : You can select from **ANPR**, **E-Police** and **Yield to Pedestrians**.
- **Road Mode** : Select **City Road** or **High Road** (expressway) according to the actual installation position of the Camera.
- **Iris Type / Lens Type** : Only **Manual** is available.

Figure 2-2 Config guide (1)

The screenshot shows a 'Config Guide' window with four dropdown menus. The first menu is 'Business Type' with 'ANPR' selected. The second is 'Road Mode' with 'City Road' selected. The third is 'Iris Type' with 'Manual' selected. The fourth is 'Lens Type' with 'Manual' selected. At the bottom right is a button labeled 'Next >'.

Step 8 Click **Next**, and you can start modifying the default IP address of the Camera.

Figure 2-3 Config guide (2)

The screenshot shows the same 'Config Guide' window but with different fields. The 'IP Address' field is empty. The 'Subnet Mask' field contains '255 . 255 . 0 . 0'. The 'Default Gateway' field is empty. At the bottom are two buttons: '< Back' and 'Finish'.

Step 9 After configuration, click **Finish**.

The **Live** page is displayed.

Step 10 For first-time login, click **Please click here to download and install the plug-in**, and then install the plug-in according to system prompt.

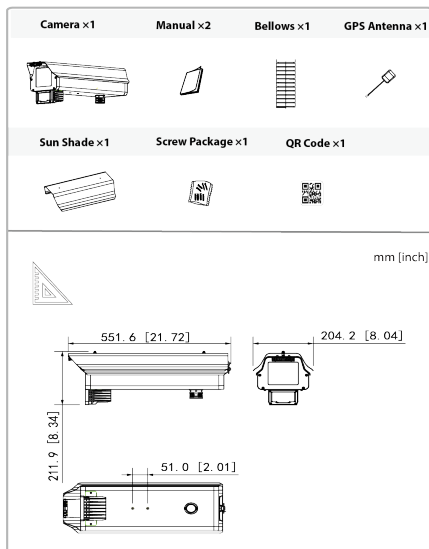


Before installing the plug-in, make sure that **ActiveX controls** (in Internet Explorer) from **Tools > Internet Options > Security > Custom Level** is enabled.

3 Installation

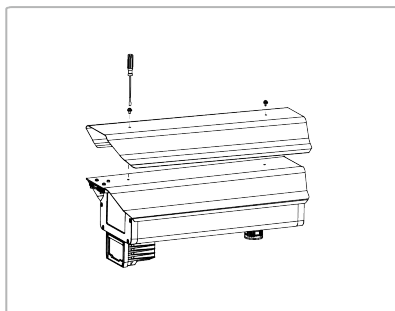
3.1 Accessories Package

Figure 3-1 Accessories package



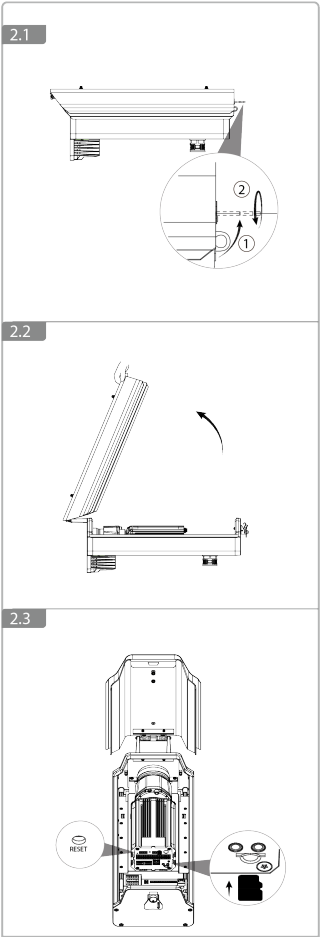
3.2 Installing Sun Shade

Figure 3-2 Installing sun shade



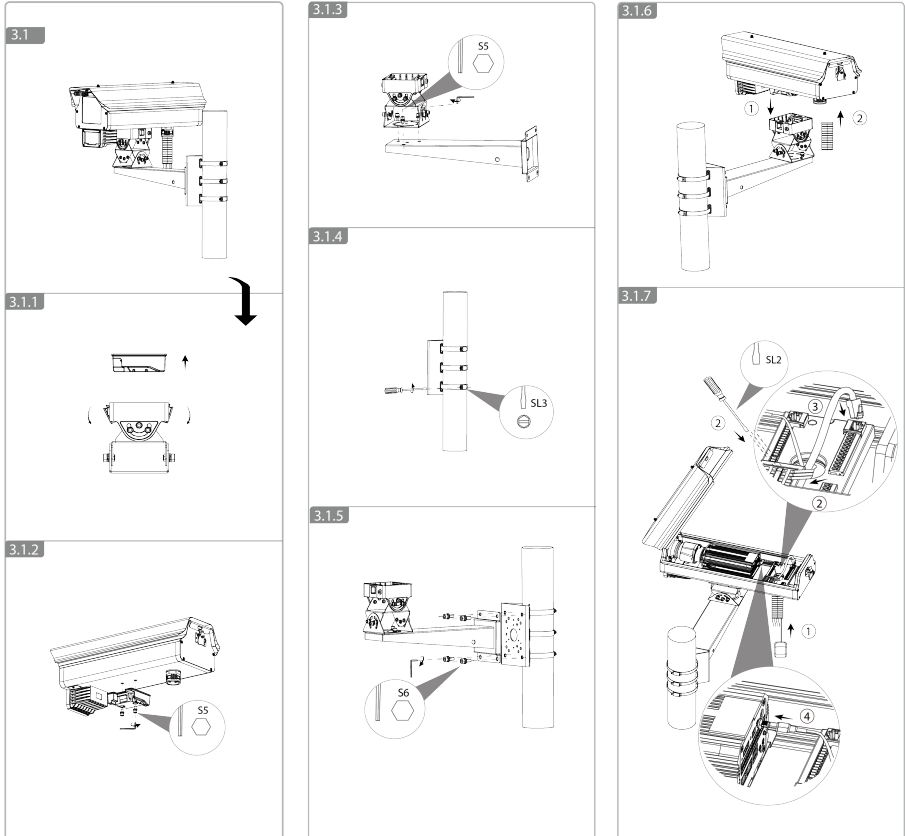
3.3 Installing SD Card

Figure 3-3 Installing SD card



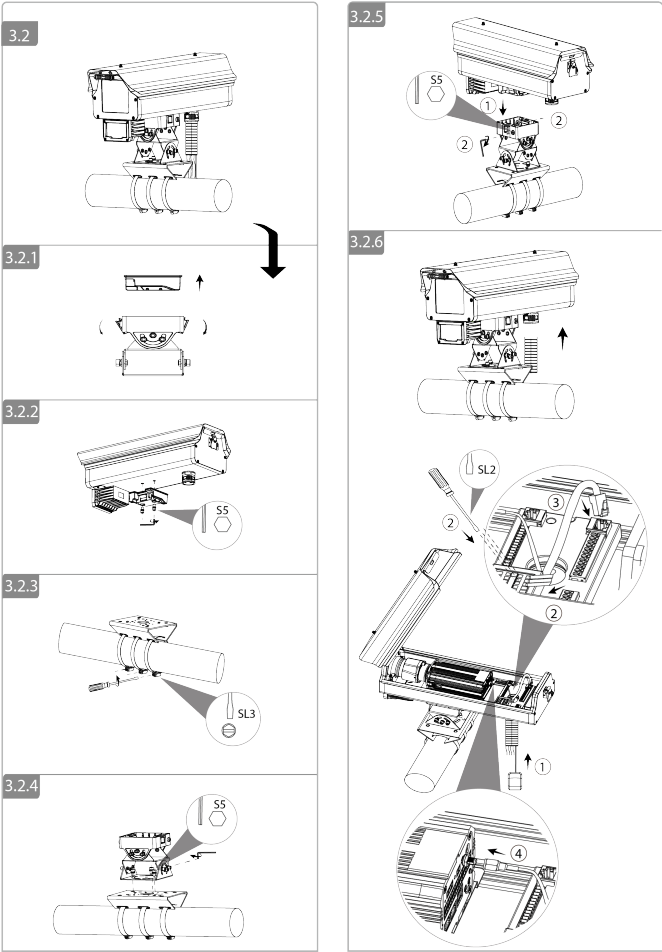
3.4 Vertical Mounting

Figure 3-4 Vertical mounting



3.5 Horizontal Mounting

Figure 3-5 Horizontal mounting



3.6 Adjusting Camera Angle

Figure 3-6 Adjusting camera angle (horizontal and vertical mounting)

