

Mobile Enforcement System

Quick Start Guide

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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

The mobile enforcement system is composed of mobile enforcement video recorder (hereinafter referred to as recorder or device), network HD positioning system (hereinafter referred to as positioning system), manual controller (hereinafter referred to as controller), LCD monitor (hereinafter referred to as monitor), etc.

1.2 Interface Description

1.2.1 Front Panel

The front panel of the device is shown as below.

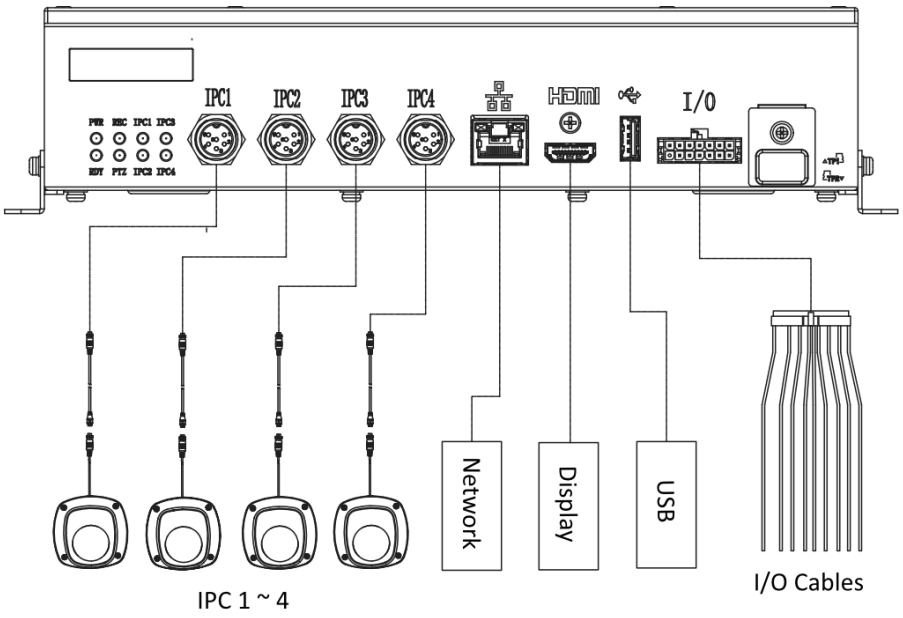


Figure 1-1 Front Panel Interface

Table 1-1 Front Panel Description

Silkscreen	Name	Description
IPC	IPC Interface	Connects to IP cameras to get video and image information.
	Network Interface	Connects to the network cable.
HDMI	HDMI Interface	Connects to the external display.

Silkscreen	Name	Description
	USB Interface	Connects to the USB flash drive.
I/O	I/O Interface	Connects to I/O cables.

Caution

The USB interface only supports USB flash drives. Charging or connecting to other loads is prohibited. The current connected to the device cannot exceed 0.1 A.

1.2.2 Rear Panel

The rear panel of the device is shown as below.

Note

The peripherals in the figure are for reference only. The actual connected device(s) shall prevail.

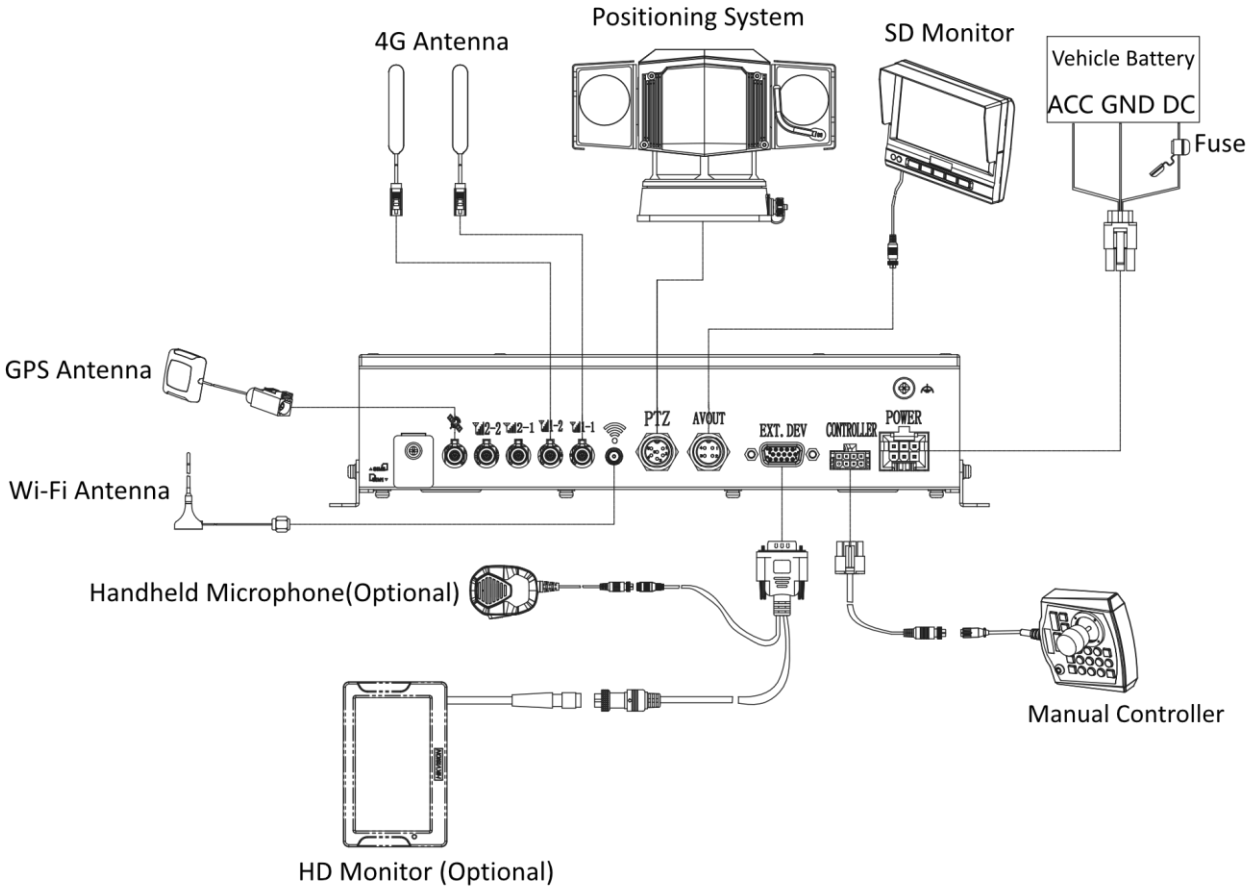


Figure 1-2 Rear Panel Interface

Table 1-2 Rear Panel Description

Silkscreen	Description
	Connects to the GPS antenna to receive satellite signals and position device.
	Connects to the 4G antenna to receive network signals.
	Connects to the Wi-Fi antenna to enhance the Wi-Fi signal of the device.
PTZ	Connects to the positioning system to capture target events, and get video and image information.
AVOUT	Connects to the SD monitor for local display, including live view, playback, and menus.
EXT.DEV	Connects to the handheld microphone and HD monitor.
CONTROLLER	Connects to the manual controller to control the device and the positioning system.
POWER	Connects to the vehicle power supply.

1.3 Manual Controller Conventions

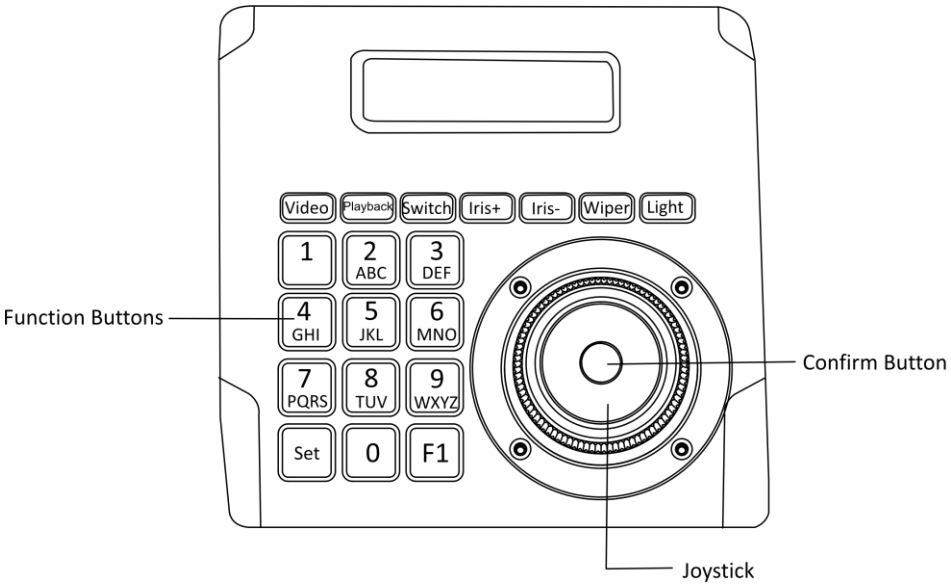


Figure 1-3 Manual Controller

Table 1-3 Manual Controller Description

Buttons	Description
Video	Start or stop recording. The light indicates the recording status. It is enabled by default.
Playback	Hold to play back snapshots or recordings.
Switch	Switch the live view image size.
Iris +/-	Adjust the brightness of the image.
Wiper	Press to enable the wiper, and press again to disable it.
Light	Enable or disable the camera supplement light.
Set	Press to save the settings.
F1	Hold to select all in the playback page.
Numbers/letters	Input the corresponding numbers and letters.
0	Cancel and return.
Joystick	• In the menu page, move the joystick to select items. Press the confirm button to confirm or enter the next page. • In the input text filed, move the joystick upwards to select input methods. • In the live view page, move the joystick to control the PTZ direction. When the recording light is steady on, press the confirm button to capture pictures manually.

1.4 Monitor Conventions

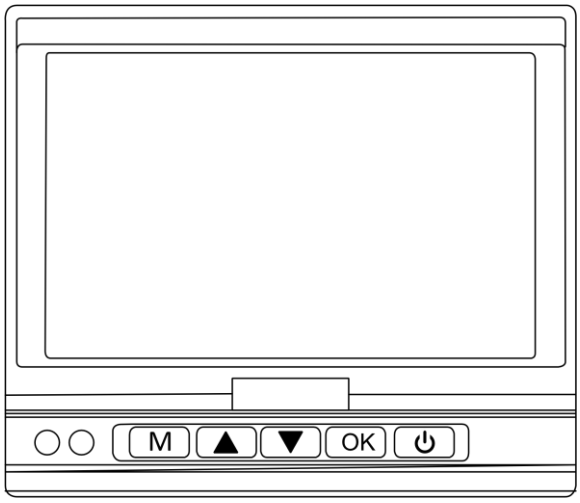


Figure 1-4 Monitor

Table 1-4 Monitor Button Description

Button	Description
M	Hold to enter the main menu; Presss to switch channels. Currently only the main channel is available.
▲ /▼	Press to select an item.
OK	Press to confirm.
⏻	Press to sleep or wake up the screen display.

Chapter 2 Installation

2.1 Before You Start

Take out the device from the package. Check the device and accessories. Contact us if something is missing or damaged.

2.1.1 Environment Requirements

Before installation, you should deploy the installation position and route. Ensure the power supply and route of the mobile enforcement system is safe, stable, convenient, and reasonable.

Danger

When installing the system components in the vehicle, be sure to avoid the airbag area to prevent damaging the airbag or causing danger if the airbag deploys during an accident.

Mobile Enforcement Video Recorder

- Anti-vibration: Install the device on the part with weak vibration (such as the part behind the driver's seat, the part behind the passenger's seat, etc.) and far away from the engine.
- Heat dissipation: Install the device in the position far away from heat and with good ventilation for good heat dissipation.
- Enough space: Leave enough space for ventilation, heat dissipation, plugging or unplugging dummy HDD, etc.

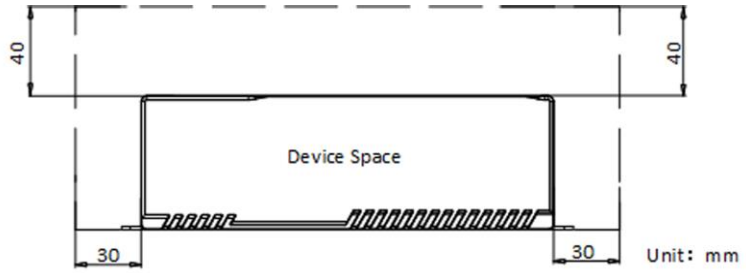


Figure 2-1 Recommended Installation Space

- Placing angle: Place the device horizontally. The other placing angles may damage the device.
- Fixing position: All the screws in the fixing positions must be fastened tightly to avoid device falling during the vibration in driving.

Camera and Positioning System

- Prevent the lens from being covered by objects such as bracket on vehicle roof.
- The positioning system should be fixed tightly on vehicle roof center via bracket (optional) to avoid falling down.

Note

If you want to customize the positioning system bracket, provide basic information such as vehicle type to the technical personnel from our company. If you want to make the bracket by yourself, get knowledge of the positioning system base dimension, screw distance, etc.

- Ensure the positioning system installation position can bear 8 times of the total weight of positioning system and accessories.

LCD Monitor

- Enough space: Leave enough space for ventilation and heat dissipation.
- Installation space: It is recommended to install the monitor on vehicle center console or reserved monitor slot. Do not install it in the position obscuring vision of driver.

2.1.2 Tools

Prepare a pair of antistatic gloves, a cross screwdriver, and an L-shaped screwdriver.

2.2 Installation

2.2.1 Install Antenna

Follow the notice below for antenna installation.

Note

The installations of 4G and Wi-Fi antennas are only applicable to the device supporting 4G and Wi-Fi.

- Connect antennas to corresponding antenna interfaces.
- Place antenna vertically with its signal receiving end facing upward.
- If the cable is too long, you can roll them up to prevent signal receiving from being affected.
- Install 4G antenna in car windshield, seat backrest, or other non-metallic objects. Keep away from metal objects for at least 50 cm.
- Vertically install positioning antenna on the automobile roof with no shelter.

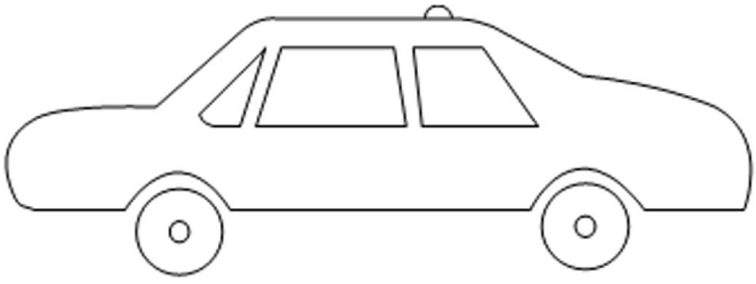


Figure 2-2 Install Positioning Antenna on Automobile Roof

- Follow the instructions below in case that you need to install positioning antenna inside your automobile.

- Install antenna on platform under the front windshield.

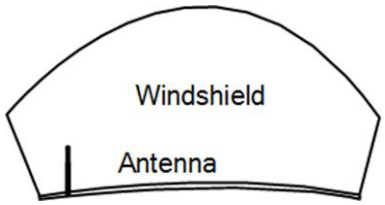


Figure 2-3 Install Positioning Antenna Inside Automobile

- Fix antenna with neutral silica gel.
- When adjusting the antenna position, ensure that at least 4 satellites have a signal strength above 35 dB.

2.2.2 Install SIM Card

Install a SIM card if you want to connect to network via SIM card.

Before You Start

Prepare the SIM card.

Steps

1. Wear antistatic gloves.
2. Unfasten the screw on the SIM card slot cover with a screwdriver, and then remove the cover.
3. Insert the SIM card into the corresponding slot in the direction indicated.

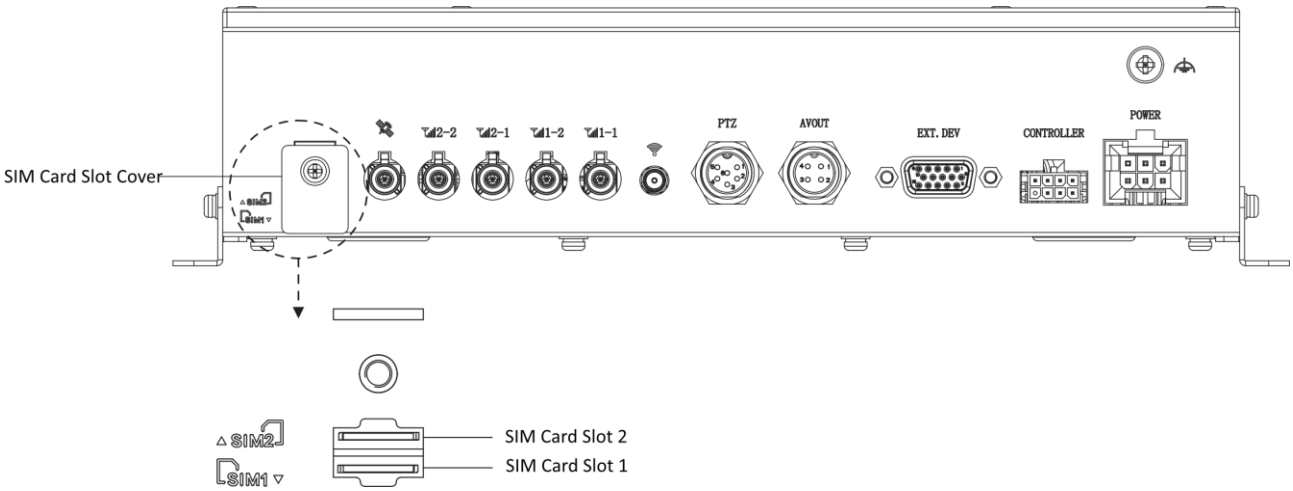


Figure 2-4 Insert SIM Card

4. Replace the SIM card slot cover.

What to do next

Connect 4G antenna to antenna interface.

2.2.3 Install TF Card

Install a TF card for storage.

Before You Start

Prepare the TF card.

Steps

1. Wear antistatic gloves.
2. Unfasten the screw on the TF card slot cover with a screwdriver, and then remove the cover.
3. Insert the TF card into the corresponding slot in the direction indicated.

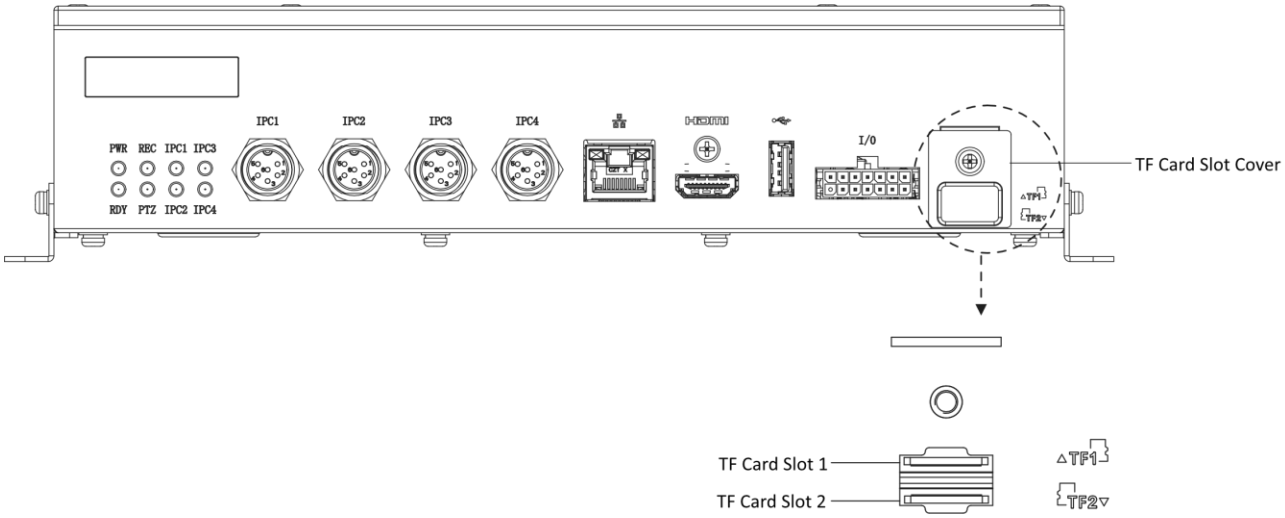


Figure 2-5 Insert TF Card

4. Replace the TF card slot cover.

Chapter 3 Device Wiring

3.1 Power Cord Wiring

Caution

- In order to ensure the safety of your automobile and device, a fuse is required for wiring of automobile power and device power.
- Do not connect the power cord to the device before all the cables are connected.

3.2 Shutdown Delay

The device starts up when your automobile ignites and shuts down after automobile is off. Automobile ignition startup and shutdown are realized by positive pole ignition switch (providing high level signal when the switch closes). Ignition switch is connected to the positive pole of automobile batteries.

Steps

Note

- The wire connection of the device varies with the automobile ignition models.
- Make sure the connection of ignition switch is correct.

1. Connect **DC IN +** of the device to the positive pole of automobile batteries, jumping over the switch of normal automobile power.
2. Connect **DC IN -** of the device to the negative pole of automobile batteries.
3. Connect **ACC** of the device to the automobile ignition switch.
4. Place fuse into the fuse holder.

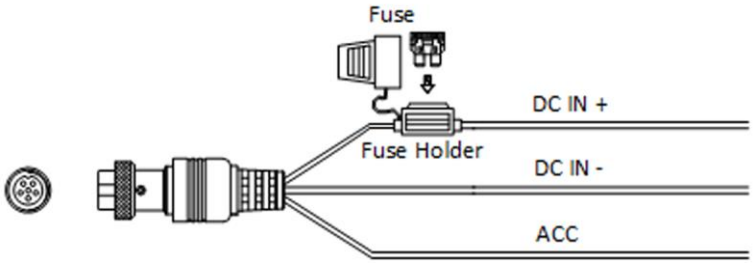


Figure 3-1 Power Cord

Result

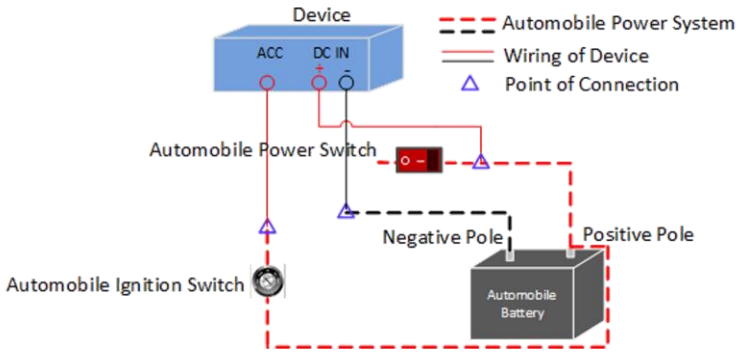


Figure 3-2 Shutdown Delay

Note

- Contact the automobile manufacturer for the connection information of starting switch.
- The automobile ignition switch, also called car key, controls the startup and shutdown of your automobile. Most of automobiles adopt positive pole ignition switch currently.
- The normal automobile power refers to the main power of the automobile power supply system. After the automobile is off, the normal automobile power still provides direct-current source for the other devices inside and generally a main switch is used to turn on/off it.

What to do next

Configure parameters of the function. Refer to User Manual for details.

3.3 Power on Device

Connect the device to power supply after all the installations above are finished. You can view the indicators to get knowledge of the device status.

Note

The indicator types vary with different models. Here the most comprehensive indicators are introduced.

Power indicator (PWR)

- Solid green: Device is powered on.
- Solid red: Device is standby.

Camera indicator (IPC)/Positioning system indicator (PTZ)

- Flashing green: Device has been connected, and data are transmitting.
- Unlit: Device is offline. Check the power supply and wiring.

Ready indicator (RDY)

Solid green: Device starts up normally.

Recording indicator (REC)

Solid green: Device is recording normally.

Chapter 4 Detailed Configuration

Scan the QR code below to get the user manual of Mobile Enforcement Video Recorder.

Figure 4-1 Mobile Enforcement Video Recorder User Manual

Scan the QR code below to get the user manual of Network HD Positioning System.

Figure 4-2 Network HD Positioning System User Manual


See Far, Go Further