

HDCVI Mobile Camera

User's Manual
V1.0.1





Foreword

General

This user's manual (hereinafter referred to be "the Manual") introduces the functions, installation and operations of the camera.

Safety Instructions

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

Signal Words	Meaning
 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, may result in property damage, data loss, lower performance, or unpredictable result.
 TIPS	Provides methods to help you solve a problem or save you time.
 NOTE	Provides additional information as the emphasis and supplement to the text.

Privacy Protection Notice

As the device user or data controller, you might collect personal data of others' such as face, fingerprints, car plate number, Email address, phone number, GPS and so on. You need to be in compliance with the local privacy protection laws and regulations to protect the legitimate rights and interests of other people by implementing measures include but not limited to: providing clear and visible identification to inform data subject the existence of surveillance area and providing related contact.

About the Manual

- The Manual is for reference only. If there is inconsistency between the Manual and the actual product, the actual product shall govern.
- 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 regions. For detailed information, see the paper User's Manual, CD-ROM, QR code or our official website.

If there is inconsistency between paper User's 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, please refer to our final explanation.
- Upgrade the reader software or try other mainstream reader software if the Guide (in PDF format) cannot be opened.
- 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 occurred when using the device.
- If there is any uncertainty or controversy, please refer to our final explanation.

Important Safeguards and Warnings



Electrical Safety

- All installation and operation should conform to your local electrical safety codes.
- The power source shall conform to the requirement of the Safety Extra Low Voltage (SELV) standard, and supply power with rated voltage which conforms to Limited power Source requirement according to IEC60950-1. Please note that the power supply requirement is subject to the device label.
- A readily accessible disconnect device shall be incorporated in the building installation wiring.
- Make sure if the camera power adapter meets the camera operating voltage requirement before powering up the device (The material and length of the power cable might influence the device voltage).
- Prevent the power cable from being trampled or pressed, especially the plug, power socket and the junction extruded from the device.
- We assume no liability or responsibility for all the fires or electrical shock caused by improper handling or installation.

Environment

- Do not aim the device at strong light to focus, such as lamp light and sun light.
- Transport, use and store the device within the range of allowed humidity and temperature.
- Keep the camera away from water or other liquid to avoid damages to the internal components.
- Keep sound ventilation to avoid heat accumulation.
- Heavy stress, violent vibration or water splash are not allowed during transportation, storage and installation.
- Pack the device with standard factory packaging or the equivalent material when transporting the device.
- It is recommended to use the device together with lightning arrester to improve lightning protection effect.
- It is recommended to get the grounding holes to be grounded to enhance the reliability of the device.
- It is recommended to use qualified video transmission cable to improve video quality. It is recommended to use RG59 coaxial cable or higher standard.



- Use standard components or accessories provided by manufacturer and make sure the device is installed and maintained by professional engineers.
- The surface of the image sensor should not be exposed to laser beam radiation in an environment where a laser beam device is used.
- Do not provide two or more power supply sources for the device; otherwise it might damage the device.
- When the camera is in the condition of PoC power supply, do not connect any other device between the camera and PoC transceiver including UTC, Balun, optical transceiver, distributor and convertor and so on; otherwise, the device might get burned.
- PoC supply voltage is up to 52V. Do not dismantle the device during normal operation; otherwise it might cause danger to both device and users due to high voltage.

1 Introduction

1.1 General

This series of products comply with the HDCVI standard and support the transmission of video and control signal over coaxial cable. They produce

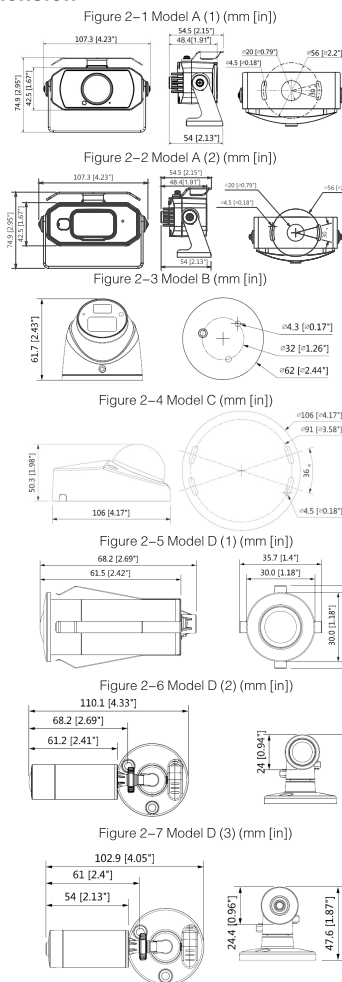
video signal with megapixel resolution and require HCVR device that comply with the HDCVI standard to achieve high speed, long distance and zero lag transmission of the signal. They are applicable to cover the monitoring needs for bus, school bus and subway.

1.2 Features

- 720p series support over 800 meter real-time transmission of video and control signal from RG59 cable, for 1080p series, the distance is 500 meter.
- Configuring devices easily with OSD menu.
- Support switching between HD/SD outputs.

2 Design

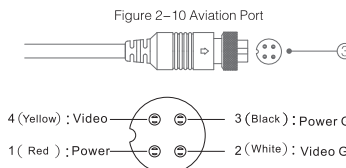
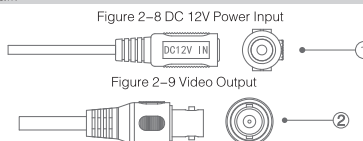
2.1 Dimension



2.2 Cable



Cable type might vary with different cameras, and the actual product shall prevail.



For more information about cable ports, see Table 2-1.

Table 2-1 Cable information

No.	Port Name	Function
①	DC 12V Power Input	Inputs DC 12V power. Please be sure to supply power as instructed in the Manual. CAUTION Device abnormality or damage could occur if power is not supplied correctly.
②	Video Output	Connects to HCVR to output video signal.
③	Aviation Port	Connects to HCVR to output video signal.

3 Installation



- Make sure the mounting surface is strong enough to hold at least three times of the camera weight.
- Keep the protection film on the dome before installation and adjustment finished to avoid possible scratch.
- Properly handle the device after unpacking. Do not expose the device in humid environment.
- The following figure is for reference only, and the actual product shall prevail.

3.1 Installing Model A series

For the installation diagram and item list of model A (1) and model A (2), see Figure 3-1 and Table 3-1.

Figure 3-1 Model A series installation diagram

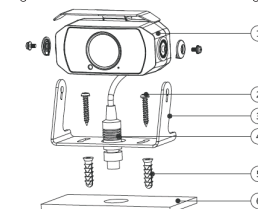


Table 3-1 Model A series installation item list

No.	Item	No.	Item	No.	Item
①	Device	②	Self-tapping screw	③	Bracket
④	Cable	⑤	Expansion bolt	⑥	Mounting surface

- Step 1 Unscrew the locking screws on the bracket③ to detach it.
- Step 2 Drill screw holes (and the cable outlet hole if it needs to go through the mounting surface) on the mounting surface⑥, then insert expansion bolts⑤ in the screw holes.
- Step 3 Align the screw holes on the bracket③ to those on the mounting surface⑥, then put in and fasten the supplied self-tapping screws② to attach the bracket③ to the mounting surface.
- Step 4 Adjust the location of the device① on the bracket③ and fasten the locking screws to attach the device① on the bracket③.

3.2 Installing Model B

For the installation diagram and item list of model B, see Figure 3-2 and Table 3-2.

Figure 3-2 Model B installation diagram

