

- 8MP Pro Motorized HD Analog Series

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1 CAUTIONS

1. To reduce the risk of electric shock, do not open the machine and maintain by yourself, please consult a professional service person.

2. To prevent fire or shock hazard, use the power after safety certification, the input voltage, current, voltage polarity and operating temperature must meet the requirements of this camera.

3. Please note the operating temperature and environmental requirements of the camera, avoid too low or too high temperature. General operating temperature range of $-10^{\circ}\text{C} \sim +50^{\circ}\text{C}$ (Fahrenheit temperature is $14^{\circ}\text{F} \sim 122^{\circ}\text{F}$). Avoid flooding and rain, minimize dust and moisture erosion, otherwise camera would be damaged.

4. Cameras in use should avoid direct sunlight, glare, otherwise the sensor will be damaged.

5. Do not touch the sensor surface, if any foreign objects exists, a cotton swab or lens paper can be used to wipe, if it is difficult to remove, a neutral detergent diluted with water would be useful. Do not use corrosive solution.

6. In order to make the camera work smoothly and obtain satisfactory image, the power cord and video connection can not be too long, otherwise the increase of line loss will lead to the inadequate magnitude of the operating voltage of the camera or video signal Inadequate.

7. In order to prevent the camera from falling, please do not place the camera on an unstable bracket, base or other unstable objects. Otherwise it will lead to injury, at the same time, the camera will be damaged.

8. The camera cannot be placed near the radiator or heating resistor.

2 Product Introduction

2.1 Camera Introduction


PROVISION-ISR's new series of cameras have adopted a high performance CMOS image sensor, which provides mega pixel resolution and supports HD video. Moreover, it supports monitoring signals coaxial transmission. Transmission distance can reach more than 300M based on 75-3 coaxial cable. The series can support all HD analog resolutions: AHD/TVI/CVI as well as CVBS 960H output.

2.2 Product Features

- Coaxial cable with BNC connector
- DIP Switch for output selection
- Auto Day/Night (ICR)
- BLC
- 3D-DNR
- AHD/TVI/CVI/CVBS Signal Selectable
- PAL/NTSC (System Selectable by DIP switch)*

3 Menu Setup

AHD/TVI: Click on “Iris+” button from the DVR’s PTZ interface to call the OSD Menu. Use the PTZ interface to scroll through the menu and “Iris+” to confirm.

CVI: Click “▶” button from the DVR’s PTZ interface, then click “” and press “Enter” to call the OSD Menu.

4 Product Installation

4.1 General Notes

1. Make sure the unit is powered off before installation.
2. Check power supply voltage consistent with the electric voltage to prevent voltage unworthy, resulting in damage to the device.
3. Do not use in environment conditions exceeding the specified temperature and humidity.
4. The installation and maintenance of this product should be done by a professional. Please do not remove or modify the camera in any way.

4.2 Installation Tools and Information

Prepare the required tools and instructions. Before installation please prepare the following tools:

A straight or a Phillips-head screwdriver, multi-meter, cutter, needle nose pliers, measuring tape, pencil.

4.3 Installation Method

1. Check the camera for any external damage.
2. Mount the bracket or base:
 - ① For cement wall, install the expansion screws, and then mount the bracket/base.
 - ② For wooden wall use self-tapping screws to mount.

Note:

The wall needs to bear at least 3X weight of bracket (base) and camera. Installation method above is for reference only.

4.4 Setting the camera and Lens:

a. Dome Camera

Adjust the lens position so it aims at the main monitoring point and gives a clear picture.

b. Bullet Camera

Adjust the body so that the lens aims at the main monitoring point and gives a clear picture. Tighten the screws to ensure that it does not move.

c. Setting the Lens

The lens control is based on CoC and should be done through the PTZ interface of the DVR. Access the PTZ interface from your DVR menu and use the Zoom/Focus controls to operate the lens.

4.5 Setting the video output type:

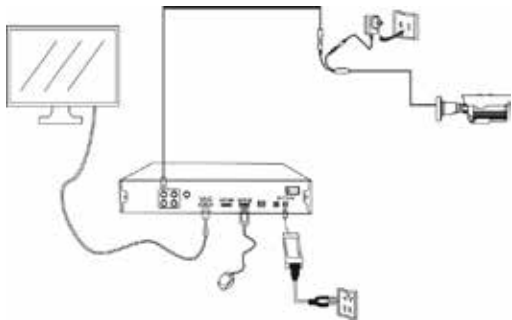
The camera supports AHD/TVI/CVI/CVBS video output. And PAL/NTSC system is switchable by setting a DIP switch on the cable as illustrated:



Note: DAI Models cannot switch between PAL/NTSC by hardware. Changing the output (AHD/TVI/CVI/CVBS) is done by a switching button on the cable.

4.6 Connection

Connection as shown in the figure below



4.7 OSD Control

The OSD control is available by CoC (Control over Coax). If your AHD/TVI/CVI DVR supports this function*, use the DVR's PTZ interface to press on "Iris+" or "⊕" to open the OSD menu. Navigate through the OSD menu using the PTZ direction arrows.

* Notice: CoC function works no more than 200M by Rg59 coaxial cable

* All of Provision-ISR's Ossia DVRs support CoC. Older devices support CoC starting from version 3.4.4

4.8 OSD Menu Scheme:

Main Menu	Second Menu	Third Menu
AE	Brightness	0~100
	Exposure Mode	Global / BLC
AF	AF Mode	Semi / Auto / Manual
	Zoom	+/-
	Focus	+/-
	Boot Mode	Save Pos / Wide End / Tele End
	TDN AF	Close / Open
	Focus Trigger	
	Lens Init	
AWB	AWB	Auto / Greyworld
	Red Gain	0~100
	Blue Gain	0~100
Day / Night	EXT	
	Color	
	B&W	Smart IR

Model	DI-380A-MVF	DAI-380A-MVF
Image Sensor	Sensor: 1/2.5" 8MP Sensor	
Image Format	8MP/4MP - 16:9, 5MP - 4:3	
Effective Pixels	3864x2202	
Scanning System	Progressive	
Resolution	8MP: 3840x2160 AHD/TVI/CVI, 5MP: 2592x1944 AHD/TVI 4MP: 2560x1440 AHD/TVI/CVI, CVBS: 700TVL	
FPS	8MP @ 12/15FPS, 5MP @ 20FPS, 4MP @ 25/30FPS, CVBS @ 25/30FPS	
Min. Illumination	Color: 0.01lux @F1.2, AGC ON, B/W: 0lux with IR	
D&N	True Day&Night-ICR	
IR LED	3LED Array (40m)	3LED Array (40m)
OSD Menu	Available via CoC Only	
CoC Support	Yes	
Day & Night Mode	Ext/Auto/Day/Night	
Backlight Compensation	BLC	
S/N Ratio	≥52dB (AGC Off)	
White Balance	Auto	
Noise Reduction	3D-DNR	
Video Output	8MP / 5MP / 4MP (Selected by OSD Menu) AHD/TVI/CVI/CVBS + PAL/NTSC (Selected by DIP Switch)*	
Privacy Mask	No	
D-Effect	No	
WDR	No	
Lens (Field Of View)	2.8-12mm MVF (82°-31°)	2.8-12mm MVF (82°-31°)
Power	DC12V/650mA	DC12V/650mA
Operation Temperature	-30°C ~ 50°C, 10% ~ 90% humidity	
Protection Rate	IP67	IP67, IK10
Dimensions	Φ113*99.6mm	Φ140.9*100.3mm
Net Weight	695g	830g

*DAI Model does not support PAL/NTSC switching by DIP switch