

- 5MP 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

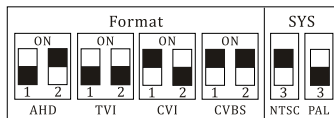
Adjust the body so that the lens aims at the main monitoring point and gives a clear picture. Tighten the screws to ensure that it does not move.

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.

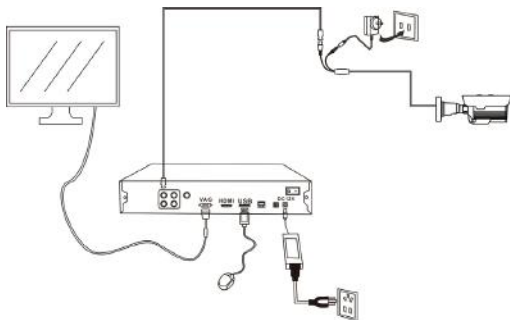
4.5 Setting the video output type:

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



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 "Iris-" 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			
LENS	MANUAL				
	DC	MODE	INDOOR	MIN SHU	1/25-1/10000
				MAX SHU	1/50-1/50000
		OUTDOOR	MIN SHU	1/25-1/10000	
			MAX SHU	1/50-1/50000	
	IRIS SPEED	0-15			
RETURN	RET				
EXPOSURE	SHUTTER	---			
	AGC	0-15			
	BRIGHTNESS	0-100			
	D-WDR	AUTO			
		OFF			
	BACKLIGHT	OFF			
RETURN	RET				
WHITE BAL	ATW				
	AWC-SET				
DAY&NIGHT	EXT	D-N(DELAY)	0-15		
		N-D(DELAY)	0-15		
		RETURN	RET		
	AUTO	D-N(AGC)	11-186		
		D-N(DELAY)	0-15		
		N-D(AGC)	1-176		
	COLOR	N-D(DELAY)	0-15		
B/W	IR SMART	ON			
	RETURN	RET			

ADJUST	INR	2DNR	MIDDLE/HIGH/OFF/LOW (Optional)		
		3DNR	MIDDLE/HIGH/OFF/LOW (Optional)		
	SHARPNESS	RETURN	RET		
		MIDDLE/HIGH/LOW (Optional)			
	COLOR GAIN	BLUE GAIN	0-10		
		RED GAIN	0-10		
		RETURN	RET		
	LSC	ON			
		OFF			
	MIRROR	OFF			
		MIRROR			
		V-FLIR			
		ROTATE			
	DPC	LIVE DPC	ON		
			OFF		
		WHITE DPC	ON		
			OFF		
		RETURN	RET		
	LANGUAGE	ENG/CHN1/CHN2/GER/FRA/ITA/SPA/POL/RUS/POR/NED/TUR/JPN (Optional)			
OUTPUT MODE	FORMAT	AHD/CHD/THD/CVBS (Optional)			
	RESOLUTION	4 MEGA/5 MEGA (Optional)			
	FRAMERATE	RT/NRT (Optional)			
	VIDEO OUT	PAL/NTSC (Optional)			
	APPLY SET				
RETURN	RET				
AF	AF MODE	SEMI			
		AUTO			
		OFF			
		MANUAL			
	ONE SHOT AF				
TDH AF	ON				
	OFF				
LENS INIA					
POWER INIT	SAVEPOSI				
	OFF				
	WIDE				
AF ADJUST	FAST/FULL				
RETURN	RET				
EXIT	SAVE&END				

5 Specifications:

5MP PRO Motorized HD Analog Series

DI-350AMVF / I4-350AMVF

Model	DI-350AMVF	I4-350AMVF
Image Sensor	1/2.8" 5MP Sensor	
Effective Pixels	2688(H)×1944(V)	
Scanning System	Internal Sync	
Resolution	Digital:2688×1944P, Analog:960H	
Min. Illumination	0.1Lux / (0Lux IR On)	
Day & Night	EXT, Color, B&W, Auto	
IR LED	3 LED Array (25m)	4 LED Array (40m)
OSD Menu	Available by CoC Only	
Backlight Compensation	OFF/BLC	
S/N Ratio	≥60dB (AGC Off)	
White Balance	ATW/AWC-SET	
Noise Reduce	3D-DNR	
Video Output	AHD/TVI/CVI/CVBS(Signal Selectable by DIP switch)	
System Format	PAL/NTSC (System Selectable by DIP switch)	
Defog	Not Available	
Privacy Mask	Not Available	
Motion Detection	Not Available	
D-Effect	Mirro, V-Flit, Rotate	
Lens	2.7-13.5mm Motorized with Auto Focus	
Power	DC12V±10%	
Operation temp.	-20°C~+50°C (-4°F~122°F)	
Dimension	129.5*90*119mm	286*77*85.6mm
Net Weight	476g	836g