

- 1080P Pro HD Analog Series

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## 1 Cautions:

1. To reduce the risk of electric shock, do not open the camera or perform internal maintenance by yourself. Please consult a professional service person if needed.
2. To prevent fire or electrical shock hazard, make sure that the input voltage, current, polarity and operating temperature meet the requirements of the camera.
3. Please note the operating temperature and environmental limits of the camera. Do not install in higher/lower temperatures than  $-20^{\circ}\text{C}\sim+50^{\circ}\text{C}$  ( $-4^{\circ}\text{F}\sim122^{\circ}\text{F}$ ). These cameras are not waterproof! Minimize dust and moisture erosion, otherwise camera would be damaged.
4. Avoid directing the camera to sunlight while powered on, otherwise the sensor will be damaged.
5. Do not touch the sensor surface. If any foreign objects exists use a cotton swab or lens paper to clean. if it is difficult to remove, use a neutral detergent diluted with water.

6. In order to ensure smooth and satisfactory image, the power and video cables shouldn't be too long. Please follow general AHD/Analog specifications for cables types and lengths.
7. In order to prevent the camera from falling, please install the camera on a stable surface.
8. The camera should not be placed near a 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 HD resolution and supports high resolution video output. The cameras support video transmission distance of around 400M base on Rg59 standard coaxial cable. This series can support AHD/TVI/CVI/CVBS 960H analog output.

### 2.2 Product Features

- Coaxial Cable with BNC Connector
- DIP Switch
- Auto Day/Night (ICR)
- BLC / HLC
- 2D/3D NR
- AHD/TVI/CVI/CVBS Signal Selectable (by jumper)

## 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 that power supply voltage complies with the camera requirement to prevent damage to the camera.
3. 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:

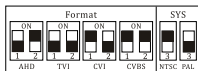
A straight or a Phillips-head screwdriver, multi-meter, cutter, needle nose pliers, measuring tape, pencil.

## 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.

## 4.4 Setting the video output type:

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



The Default Setting is PAL + AHD

## 4.5. Setting the camera:

### a. Dome Camera

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

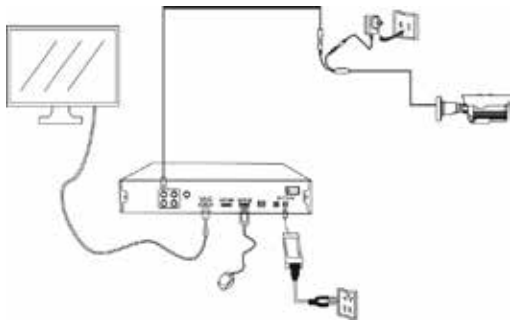
### b. Bullet Camera

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.

**Note:**  
**The wall needs to bear at least 3 times the weight of the camera.**

#### 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 DVRs support CoC Starting from version 3.4.4

#### 4.8 OSD Menu Scheme:

Main Menu	Second Menu	Third Menu
AE	Brightness	0~100
	DC	Global / Center / BLC / FLC
AWB	ATW	
	Manuel	Red Gain
		Blue Gain
Grey Mode	0~100	
Day / Night	EXT	
	Color	
	B&W	
Image Enhance	Contrast	Auto
		Manual
	Sharpness	Auto
		Manual
	Saturate	Auto
		Manual
	3DNR	Auto
		Manual
2DNR	Auto	
	Manual	

Main Menu	Second Menu	Third Menu
Video Settings	HD	AHD / CVI / TVI / CVBS
	Standard	1080P@25 / 1080P@30 720P@25 / 720P@30 PAL/NTSC (For CVBS)
Language	English	
	Chinese	
Reset		

## 5 Specifications:

### 2MP Pro HD Analog Series

Model	I2-320A-28	I4-320A-28	I4-320A-VF
Image Sensor	1/2.9" 2MP Sensor		
Image Format	16:9		
Effective Pixels	1936x1096		
Scanning System	Progressive		
Resolution	2MP: 1920x1080 AHD/TVI/CVI 1MP: 1280x720 AHD/TVI/CVI CVBS: 700TVL		
FPS	25/30FPS		
Min. Illumination	Color: 0.005lux @F1.2, AGC ON B/W: 0lux with IR		
D&N	True Day&Night-ICR		
IR LED	1LED Array (20m)	2LED Array (40m)	3LED Array (40m)
OSD Menu	Available via CoC Only		
CoC Support	Yes		
Day & Night Mode	Ext/Auto/Day/Night		
Backlight Compensation	No		
S/N Ratio	≥52dB (AGC OFF)		
White Balance	Auto / Manual		
Noise Reduction	3D-DNR		
Video Output	2MP / 1MP (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)	2.8mm Fixed (88°)	2.8mm Fixed (88°)	2.8-12mm VF (88°-33°)
Power	DC12V/320mA	DC12V/470mA	DC12V/560mA
Operation Temperature	-30°C ~ 50°C, 10% ~ 90% humidity		
Protection Rate	IP67		
Dimensions	172.2*73.4*74.5mm	220.8*79.4*81.2mm	220.8*79.4*81.2mm
Net Weight	475g	645g	700g

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Effective Pixels	1936x1096	
Scanning System	Progressive	
Resolution	2MP: 1920x1080 AHD/TVI/CVI 1MP: 1280x720 AHD/TVI/CVI CVBS: 700TVL	
FPS	25/30FPS	
Min. Illumination	Color: 0.005lux @F1.2, AGC ON B/W: 0lux with IR	
D&N	True Day&Night-ICR	
IR LED	1LED Array (20m)	3LED Array (40m)
OSD Menu	Available via CoC Only	
CoC Support	Yes	
Day & Night Mode	Ext/Auto/Day/Night	
Backlight Compensation	No	
S/N Ratio	≥52dB (AGC OFF)	
White Balance	Auto / Manual	
Noise Reduction	3D-DNR	
Video Output	2MP / 1MP (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)	2.8mm Fixed (88°)	2.8-12mm VF (84°-32°)
Power	DC12V/270mA	DC12V/660mA
Operation Temperature	-30°C ~ 50°C, 10% ~ 90% humidity	
Protection Rate	IP67	
Dimensions	Φ97*82.6mm	Φ113*99.6mm
Net Weight	485g	695g