PROVISION ISR®
Now you can see!

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Now you can see!

HD

■ 2MP Ultra Motorized HD Analog Series

USER MANUAL

Contents

1 Cautions:

1. To reduce the risk of electric shock, do not open the camera or perform internal maintainance 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 -30°C~+50°C (-4°F~122°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 sepcifications for cables types and lenghts.

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 mega pixel resolution and supports HD video. Moreover, it supports monitoring signals coaxial transmission. Transmission distance can reach more than 200M based on RG59 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)
● WDR/BLC
● 3D-DNR
● Super High Resolution Lens
● 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:

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 inteface from your DVR menu and use the Zoom/Focus controls to operate the lens.
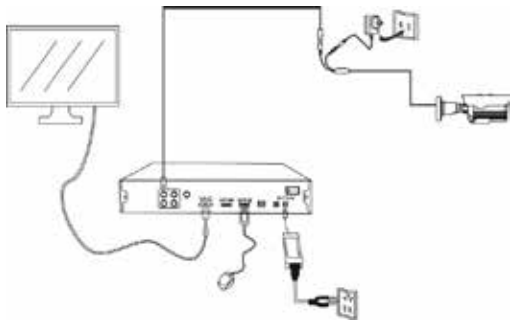
4.5 Setting the video output type:

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:

Note: DAI Models cannot switch between PAL/NTSC by hardware. Chaning 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 DVRs support CoC Starting from version 3.4.4

4.8 OSD Menu Scheme:

Main Menu	Second Menu	Third Menu
Lens	Manual	
Exposure	Shutter	Auto / Manual (Various Values)
	AGC	0~15
	Sens-Up	Auto / Manual
	Brightness	0~100
	D-WDR	Off / On
Backlight	Off	
	BLC	Level
		Area
	HSBLC	Area
		Display
		Black Mask
		Level
		Mode
	WDR	Level
		D&N Mode
Day & Night	EXT	D->N (Delay)
		N->D (Delay)
	Auto	D->N (AGC)
		D->N (Delay)
		N->D (AGC)
		N->D (Delay)

Main Menu	Second Menu	Third Menu
Day & Night	Color	
	B/W	Burst
		IR Smart
NR	2DNR	Off/Low/Middle/High
	3DNR	Off/Low/Middle/High
Special	D-Effect	Freeze
		Mirror
		Negative Image
	Motion	Off
		On
	Privacy	Off
		On
	Language	Eng / Ger / Fra / Ita / Spa / Pol / Rus / Por / Ned
	Defect	Live DPC
		White DPC
		Black DPC
Adjust	Sharpness	Auto / Manual
	Monitor	Gamma
		Blue Gain
		Red Gain
	LCS	On / Off
	Monitor Out	AHD/TVI/CVI/CVBS
	Video Out	PAL / NTSC

5 Specifications:

2MP Ultra HD Analog Series

Model	DAI-320AU-VF	DI-320AU-MVF	I4-320AU-MVF
Image Sensor	Sensor: 1/2.8" 2MP Sensor		
Image Format	16:9		
Effective Pixels	1945x1109		
Scanning System	Progressive		
Resolution	2MP: 1920x1080 AHD/TVI/CVI CVBS: 700TVL		
FPS	25/30FPS		
Min. Illumination	Color：0.001lux @F1.2, AGC ON B/W：0lux with IR		
D&N	True Day&Night-ICR		
IR LED	3 LED Array (40m)		
OSD Menu	Available via CoC Only		
CoC Support	Yes		
Day & Night Mode	Ext/Auto/Day/Night		
Backlight Compensation	BLC/HLC		
S/N Ratio	≥52dB (AGC OFF)		
White Balance	Auto		
Noise Reduction	3D-DNR		
Video Output	2MP AHD/TVI/CVI/CVBS + PAL/NTSC (Selected by DIP Switch)*		
Privacy Mask	Yes		
D-Effect	Mirror + Flip		
WDR	True (120dB) + Digital		
Lens (Field Of View)	2.8-12mm VF(96°-34°)	2.8-12mm MVF (96°-34°)	
Power	DC12V/600mA	DC12V/670mA	DC12V/620mA
Operation Temperature	-30°C ~ 50°C, 10% ~ 90% humidity		
Protection Rate	IP67, IK10	IP67	IP67
Dimensions	Φ140.9*100.3mm	Φ113*99.6mm	220.8*79.4*81.2mm
Net Weight	830g	695g	650g