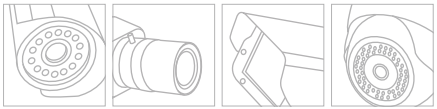
PROVISION ISR®
Now you can see!



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PROVISION ISR®
Now you can see!

- 5MP Pro HD Analog Series

USER MANUAL

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5) Specifications

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)
- 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

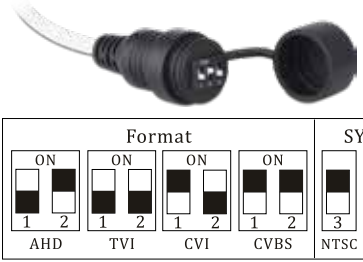
Adjust the lens position so it aims at the main monitoring point and gives a clear picture.

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.

4.5 Setting the video output type:

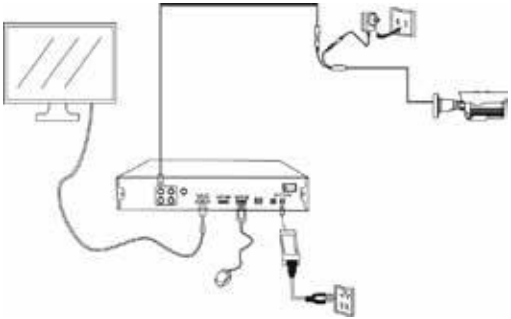
The camera supports AHD/TVI/CVI/CBVS video output. And PAL/NTSC system is switchable by setting a DIP switch on the cable as illustrated:



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	1~20
	DC	Mode
		Iris Speed
Exposure	Shutter	
	AGC	0~15
	Brightness	0~100
	D-WDR	Off / On
	Backlight	BLC / Off
White Balance	ATW	
	AWC -> Set	
Day & Night	Ext	D->N (Delay)
		N->D (Delay)
	Auto	D->N (AGC)
		D->N (Delay)
		N->D (AGC)
		N->D (Delay)
	Color	
	B/W	IR Smart
Adjust	NR	2DNR
		3DNR
	Sharpness	

Adjust	Color Gain	Blue Gain
		Red Gain
	LSC	
	Mirror	
	DPC	Live DPC White DPC
	Language	Eng / Ger / Fra / Ita / Spa / Pol / Rus / Por / Ned
		4MP - AHD/TVI/CVI 5MP - AHD/TVI CVBS PAL / NTSC
Exit	Save and Exit	
	Reset	
	Not Save	

5 Specifications:

5MP Pro HD Analog Series

Model	I2-350A-28	I4-350A-28	I4-350A-VF
Image Sensor	1/2.7" 5MP Sensor		
Image Format	5MP - 4:3. 4MP - 16:9		
Effective Pixels	2608x1960		
Scanning System	Progressive		
Resolution	"5MP: 2592x1944 AHD/TVI 4MP: 2560x1440 AHD/TVI/CVI CVBS: 700TVL		
FPS	25/30FPS		
Min. Illumination	Color: 0.01lux @F1.2, AGC ON, B/W: 0lux with IR		
D&N	True Day&Night-ICR		
IR LED	1LED Array (20m)	2LED Array (40m)	2LED 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 / Auto->Set		
Noise Reduction	3D-DNR		
Video Output	5MP / 4MP (Selected by OSD Menu) AHD/TVI/CVI/CVBS + PAL/NTSC (Selected by DIP Switch)		
Privacy Mask	No		
D-Effect	Mirror + Flip		
WDR	Digital		
Lens (Field Of View)	2.8mm Fixed (91°)	2.8mm Fixed (91°)	2.8-12mm VF (84°-32°)
Power	DC12V/320mA	DC12V/470mA	DC12V/470mA
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	645g

Model	I4-350A-MVF	DI-350A-28	DI-350A-VF
Image Sensor	1/2.7" 5MP Sensor		
Image Format	5MP - 4:3. 4MP - 16:9		
Effective Pixels	2608x1960		
Scanning System	Progressive		
Resolution	"5MP: 2592x1944 AHD/TVI 4MP: 2560x1440 AHD/TVI/CVI CVBS: 700TVL		
FPS	25/30FPS		
Min. Illumination	Color: 0.01lux @F1.2, AGC ON, B/W: 0lux with IR		
D&N	True Day&Night-ICR		
IR LED	2LED Array (40m)	1LED Array (20m)	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 / Auto->Set		
Noise Reduction	3D-DNR		
Video Output	5MP / 4MP (Selected by OSD Menu) AHD/TVI/CVI/CVBS + PAL/NTSC (Selected by DIP Switch)		
Privacy Mask	No		
D-Effect	Mirror + Flip		
WDR	Digital		
Lens (Field Of View)	2.8-12mm MVF (84°-32°)	2.8mm Fixed (91°)	2.8-12mm VF (84°-32°)
Power	DC12V/660mA	DC12V/280mA	DC12V/620mA
Operation Temperature	-30°C ~ 50°C, 10% ~ 90% humidity		
Protection Rate	IP67		
Dimensions	220.8*79.4*81.2mm	Φ97*82.6mm	Φ113*99.6mm
Net Weight	690g	465g	675g

Model	DI-350A-MVF	DAI-350A-MVF
Image Sensor	1/2.7" 5MP Sensor	
Image Format	5MP - 4:3. 4MP - 16:9	
Effective Pixels	2608x1960	
Scanning System	Progressive	
Resolution	"5MP: 2592x1944 AHD/TVI 4MP: 2560x1440 AHD/TVI/CVI CVBS: 700TVL	
FPS	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 / Auto->Set	
Noise Reduction	3D-DNR	
Video Output	5MP / 4MP (Selected by OSD Menu) AHD/TVI/CVI/CVBS + PAL/NTSC (Selected by DIP Switch)*	
Privacy Mask	No	
D-Effect	Mirror + Flip	
WDR	Digital	
Lens (Field Of View)	2.8-12mm MVF (84°-32°)	2.8-12mm MVF (84°-32°)
Power	DC12V/620mA	DC12V/600mA
Operation Temperature	-30°C ~ 50°C, 10% ~ 90% humidity	
Protection Rate	IP66	IP66, IK10
Dimensions	Φ113*99.6mm	Φ140.9*100.3mm
Net Weight	675g	805g

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