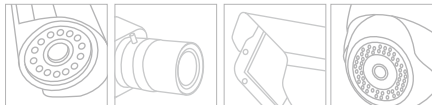


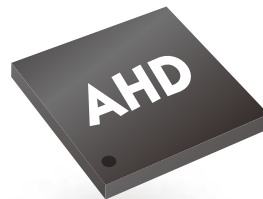
PROVISION **ISR**

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USER MANUAL

- 1080P Ultra-AHD 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 are adopted CMOS image sensor with high performance, 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 both AHD/CVBS 960H output as well as realize high speed, long distance and real time video transmission.

2.2 Product Features

- Dual Coaxial cable with BNC connectors
- AHD/CVBS Dual Output
- True WDR (Not Available for Analog Output)
- Motorized 2.8-12mm Vari-Focal Auto Focus Lens
- Auto Day/Night (ICR)
- Defog, HBLC, BLC
- 2D/3D Noise Reduction
- Motion Detection, Privacy Mask

3 Menu Setup

"Iris+" from DVR to call 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 the environment beyond the boundaries of the temperature, and maintain good ventilation to prevent the rain in order to reduce the risk of fire or electric shock.

4. The installation and maintenance of this product should be professional, please do not in any way to remove or modify the equipment; can only use the required accessories of manufacturers. Problems caused by unauthorized repair are at your own risk.

4.2 Installation Tools and Information

Prepare the required engineering data and instructions. Before installation please prepare the following tools and instrumentation: A straight or a Phillips-head screwdriver, multi-meter, scissors, needle nose pliers, tape measure, pencil and so on.

4.3 Installation Method

1. Check the equipment whether it is damaged.
2. Mounting bracket or base.
 - ① If the cement wall, install the expansion screws (expansion screw holes need stand or base hole), and then mount bracket or base.
 - ② If the wooden wall, use self-tapping screws to mount.

3. Mounting the camera

a. Dome Camera

Adjust the lens position and make it aim at the monitoring points and present a clear picture, manually fix lens location and adjust the hemisphere cover. Re-examine the screen whether the character meets the requirement. Tighten the hemisphere cover.

b. Bullet Camera

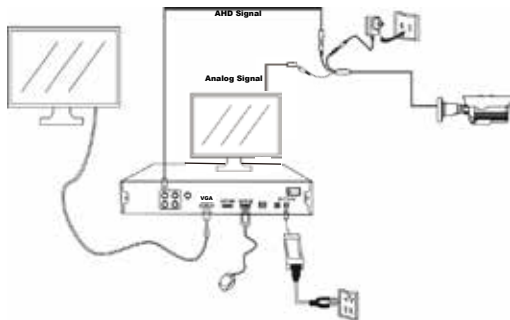
Adjust the body so that the lens aims at the monitoring points and presents a clear picture. Tighten the screws, to ensure that it does not move.

Installation method above is for reference only, the specific installation, please be kind.

Note:
The wall needs to bear at least 3X weight of bracket (base) and camera.

4.4 Connections

Connection as shown in the figure below



4.5 Lens Control

Use the DVR PTZ interface Zoom+/- to control the motorized lens.

4.6 OSD Control

The preferred control method is CoC (Control over Coax). If your AHD DVR supports this function*, Use the DVR's PTZ interface to call Preset 95 or press on "Iris+" to open the OSD menu. Navigate through the OSD menu by the PTZ direction arrows. "Iris+" performs as "Enter".

*All of Provision-ISR's DVRs support CoC Starting from version 3.4.4

4.7 OSD Layout Scheme

Main Menu	Sub-Menu	Third Menu	Fourth Menu	Choices	
LENS	ELC	NORMAL			
		DEBLUR			
	ALC	INDOOR			
		OUTDOOR			
EXPOSURE	BRIGHTNESS	1~20			
	SHUTTER	AUTO			
		MANUAL		SPEED 1/25~1/60000	
		FLICKER			
SENS-IP	OFF / x2~x32				
AGC	1~20				
WHITE BALANCE	AUTO				
	AUTOext				
	PRESET				
MANUAL	RGAIN 1~20				
	BGAIN 1~20				
BACKLIGHT	OFF				
	HLC	MODE		ALL DAY	
				NIGHT ONLY	
		LEVEL		0~20	
	BLC	H-POS		0~20	
		V-POS		0~20	
		H-SIZE		0~20	
V-SIZE			0~20		
WDR	WEIGHT		LOW		
			MIDDLE		
			HIGH		
DNR	LOW				
	MIDDLE				
	HIGH				

DAY & NIGHT	MODE	EXTERN			
		AUTO			
		COLOR			
		B&W			
	DELAY	0~20			
	D->N LEVEL	0~20			
	N->D LEVEL	0~20			
	IR LED	ON			
		OFF			
	SMART-IR LVL	0~20			
	POLARITY	HIGH			
	LOW				
IMAGE	SHARPNESS	0~20			
		COLOR GAIN	0~20		
	FREEZE	OFF			
		ON			
	FLIP	OFF			
		H-INV			
		V-INV			
		HV-INV			
	D-ZOOM	X1.0~X7.0			
	ACE	OFF			
		LOW			
		MIDDLE			
	GAMMA	HIGH			
		0.45~0.65			
	DEFOG	OFF			
ON					
		MODE	AUTO		
			MANUAL		
SPECIAL	SYSTEM	OUTPUT MODE	1080P		
			720P (Not Available)		
		COLOR SPACE	HD-CbCr		
			YUV		
			SD-CbCr		
		FRAME RATE	25FPS		
			30FPS		
		CVBS (Do Not Change)	PAL		
			NTSC		
			COMP		
BLACK LEVEL	FULL				
	USER	OFFSET 0~255			
		GAIN 0~255			
	VERSION				

SPECIAL	COMM ADJ	CAM ID	1~255		
		BAUD RATE	2400~9600		
	LANGUAGE	ENG			
		CHINESE			
	ZOOM DISTANCE	OFF			
		ON			
	PRIVACY	ON	OFF		
				ZONE NUM	0~20
				ZONE DISP	ON
					OFF
				H-POS	0~20
				V-POS	0~20
				H-SIZE	0~20
				V-SIZE	0~20
				Y LEVEL	0~20
				CR LEVEL	0~20
		CB LEVEL	0~20		
	MOTION	ON	OFF		
				SENSITIVITY	0~20
				WINDOW TONE	0~6
				WINDOW USE	0~3
				WINDOW ZONE	OFF
					ON
				DET H-POS	0~60
				DET V-POS	0~60
				DET H-SIZE	0~60
				DET V-SIZE	0~60
		ALARM	OFF		
			ON		
	SHADING	OFF			
		ON	WEIGHT	0-100%	
	ADJUST		FOCUS ADJ	OFF	
				ON	
DEFECT DET			TRESHOLD	0~255	
			DEFECT DET		
	SHADING DET				
	COLORBAR	OFF			
		ON			
RESET					
EXIT					

4.4 Comments & Special Features:

1) The Ultra AHD Series supports True WDR, which means that the camera will take two exposures with different settings and then process it into one.

2) While WDR is off, the two exposures will be used for AHD and Analog (One exposures for each), and the dual output (AHD/Analog) is automatically enabled

3) While WDR is on, the two exposures are used for AHD Output so the Analog output is disabled automatically.

4) While WDR is on the FPS of the camera drops to 15FPS.

5) Any change in the “Special/System” OSD menu might result with losing the camera’s image and CoC control. Please do not make any changes without fully understanding the consequences.

6) In any case of losing picture/CoC control while the OSD Menu is still open - disconnect the camera from power and reconnect it to revert the changes.

5 Specifications:

Ultra-AHD camera (1080P)

DI-390AHDU-MVF

I4-390AHDU-MVF

Model	DI-390AHDU-MVF	I4-390AHDU-MVF
Image Sensor	1/3" 2MP Sony Sensor	
Effective Pixels	1984(H)×1105(V)	
Scanning System	Progressive	
Resolution	Digital:1920×1080P, 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	
CoC Support	Yes	
Backlight Compensation	OFF/BLC/HLC/True WDR* (AHD Only)	
S/N Ratio	≥60dB (AGC Off)	
White Balance	AWB, Auto-Push, Manual	
Noise Reduce	3D-DNR (For AHD), 2D-DNR (For Analog*)	
Video Output	AHD / CVBS (Dual Output - With WDR off only)	
Defog	Off/On	
Privacy Mask	Off/On (4 Areas)	
Motion Detection	Off/On (4 Areas)	
D-Effect	Freeze, Mirror	
Lens	2.8-12mm Motorized with Auto Focus	
Power	DC12V±10%, ~400mA	DC12V±10%, ~480mA
Operation temp.	-10°C~+50°C (14°F~122°F)	
Dimension	129.5*90*119mm	286*77*85.6mm
Net Weight	476g	836g

*Analog video output is not available while WDR is on