

USER MANUAL

- 1080P 4 in 1 Pro 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)
- Auto Defog, HBLC
- Digital WDR, 2D/3D NR
- Motion Detection, Privacy Mask
- 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. Choosing the output type is done by setting a DIP switch on the cable as illustrated:



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.

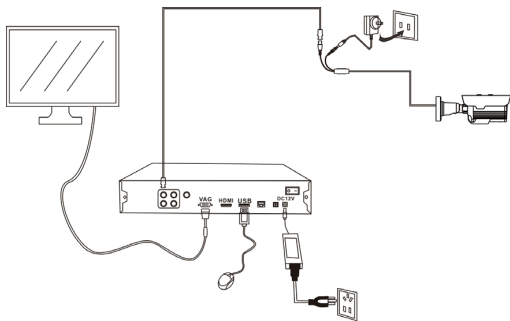
b. Bullet Camera

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 "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 DVRs support CoC Starting from version 3.4.4

OSD Menu List

Main Menu	Second Menu		Third Menu		
LENS	DC	Indoor			
		Outdoor	↓	MIN_SHU MAX_SHU	
	Manual				
EXPOSURE	↓	SHUTTER	AUTO 1/25s- 1/50000s X2-X30		
		AGC	0-15		
		SENS-UP	AUTO	SENS-UP	x2-x30
		BRIGHTNESS	1-100		
		D-DWR	OFF		
			AUTO		
			ON		
		DEFOG	OFF		
AUTO	POS/SIZE				
	GRADATION				
	DEFAULT				

BACKLIGHT	OFF				
	BLC	LEVEL			
		AREA			
		DEFAULT			
	HSBLC	SELECT	AREA1-4		
		DISPLAY	OFF		
			ON	POS/SIZE	
		BLACK MASK	ON/OFF		
		LEVEL	1-100		
		MODE	ALL DAY		
NIGHT			AGC LEVEL	0-255	
DEFAULT					
WHITE BAL	ATW				
	AWB				
	MANUAL	BLUE	1-100		
		RED	1-100		
	OUTDOOR				
	INDOOR				
	AWC-SET				
DAY/NIGHT	AUTO				
	COLOR				
	B/W				
	EXT	↓	D-N(DELAY)	0-60	
		N-D(DELAY)	0-60		

NR	↓	2DNR	LOW/MID/ HIGH			
		3DNR	LOW/MID/ HIGH			
SPECIAL	↓	CAM TITLE				
		D-EFFECT	↓		FREEZE	
					MIRROR	OFF
					ROTATION	
					V-FLIP	
					MIRROR	
				NEG IMAGE		
		MOTION	SELECT	AREA1-4		
			DISPLAY	ON/OFF		
			SENSITIVITY	0-100		
			ALARM	ON/OFF		
		PRIVACY	SELECT	AREA1-4		
			COLOR	W/R/B/G		
			TRANS	0.25-1.0		
		LANGUAGE		12 choices		
DEFECT	↓		WHITE	ON/OFF		
			BLACK	ON/OFF		
RS485						
ADJUST	↓	SHARPNESS	↓	LEVEL	1-10	
		VIDEO OUT		VALUE	0-255	
		Monitor		CRT/LCD and LSC		
EXIT		SAVE&END				

5 Specifications:

4 in 1 Pro camera (1080P)

DI-390AHD36+ / DI-390AHDVF+ / DAI-390AHDVF+

Model	DI-390AHD36+	DI-390AHDVF+	DAI-390AHDVF+
Image Sensor	1/3" 2MP CMOS Sensor		
Effective Pixels	1984(H)×1225(V)		
Scanning System	Progressive		
Resolution	Digital:1920×1080P, Analog:960H		
Min. Illumination	0.01Lux / (0Lux IR On)		
Day & Night	EXT, Color, B&W, AUTO		
IR LED	2 LED Array (20m)	3 LED Array (25m)	35 LED (20m)
OSD Menu	Available by CoC Only		
CoC Support	Yes		
Backlight Compensation	OFF/BLC/HSBLC		
S/N Ratio	≥80dB (AGC Off)		
White Balance	AWB, ATW, AWC (Push), Indoor, Outdoor, Manual		
Noise Reduce	3D-DNR (For Analog HD), 2D-DNR (For Analog)		
Video Output	AHD/TVI/CVI/CVBS (Signal Selectable by DIP switch)		
Defog	Off/On		
Privacy Mask	Off/On (4 Areas)		
Motion Detection	Off/On (4 Areas)		
D-Effect	Freeze, Mirror, Negative Image		
Lens	3.6mm	2.8-12mm	2.8-12mm
Power	DC12V±10%, ~310mA	DC12V±10%, ~410mA	DC12V±10%, ~310mA
Operation temp.	-20°C~-+50°C (-4°F~122°F)		
Dimension	104*70.8*93.2mm	129.5*90*119mm	Φ145*119.5mm
Net Weight	269g	476g	810g

I3-390AHD36+ / I4-390AHDVF+

Model	I3-390AHD36+	I4-390AHDVF+
Image Sensor	1/3" 2MP CMOS Sensor	
Effective Pixels	1984(H)×1225(V)	
Scanning System	Progressive	
Resolution	Digital:1920×1080P, Analog:960H	
Min. Illumination	0.01Lux / (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	
CoC Support	Yes	
Backlight Compensation	OFF/BLC/HSBLC	
S/N Ratio	≥80dB (AGC Off)	
White Balance	AWB, ATW, AWC (Push), Indoor, Outdoor, Manual	
Noise Reduce	3D-DNR (For Analog HD), 2D-DNR (For Analog)	
Video Output	AHD/TVI/CVI/CVBS (Signal Selectable by DIP switch)	
Defog	Off/On	
Privacy Mask	Off/On (4 Areas)	
Motion Detection	Off/On (4 Areas)	
D-Effect	Freeze, Mirror, Negative Image	
Lens	3.6mm	2.8-12mm
Power	DC12V±10%, ~410mA	DC12V±10%, ~480mA
Operation temp.	-20°C~-+50°C (-4°F~122°F)	
Dimension	206.5*67.6*68.5mm	286*77*85.6mm
Net Weight	380g	836g