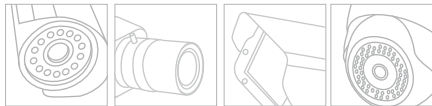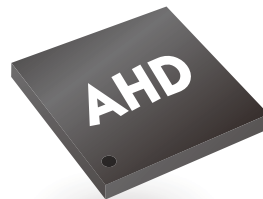PROVISION ISR
Now you can see!

PROVISION ISR
Now you can see!

AHD

USER MANUAL

- Eco-AHD Series
- Pro-AHD Series

FC CE

www.provision-isr.com

Contents

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°C ~ +50°C (Fahrenheit temperature is 14°F ~ 122°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 exits, 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 asatisfactory 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 Production Instruction

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 Feature

● Coaxial cable adopted, BNC connector as cable
  standard.
● Auto Day/Night (ICR)
● Auto Defog, HBLC
● Digital WDR, 2D/3D NR
● Motion Detection, Privacy Mask
● AHD/CVBS Signal Selectable from OSD
  AHD-960H: Press left 3 seconds;
  960H-AHD: Press right 3 seconds;
  PAL-NTSC: Press down 3 sceonds to switch
          between PAL&NTSC

3 Menu Instruction

Press "MENU" button to enter the main MENU, press "UP" and "DOWN" selection menu, press "LEFT" and "RIGHT" choice or set the corresponding function, to enter submenu please press "MENU" again. Set up save and exit.

4 Product Installation

4.1 Note

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 Connection

Connection as show in the figure below
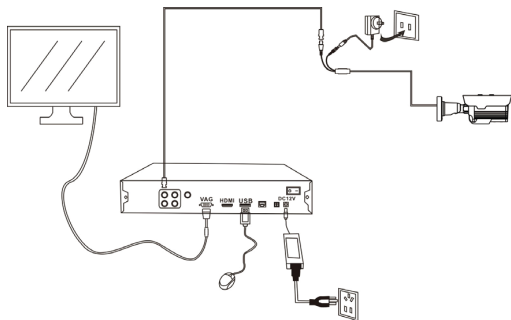
OSD Menu List

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
				VALUE	0-255
		VIDEO OUT		PAL/NTSC	
		Monitor		CRT/LCD and LSC	
EXIT		SAVE&END			

5 Specifications:

PRO-AHD camera (720P)

DI-380AHD36 / DI-380AHDVF / DAI-380AHDVF
I3-380AHD36 / I4-380AHDVF / BX-382AHD

Model	DI-380AHD36	DI-380AHDVF	DAI-380AHDVF	I3-380AHD36	I4-380AHDVF	BX-382AHD
Image Sensor	1/3" 1.3MP Sony Sensor					
Effective Pixels	1280(H)×960(V)					
Scanning System	Progressive					
Resolution	Digital:1280×960P, Analog:960H					
Min. Illumination	0.01Lux / (0Lux IR On)					0.01Lux
Day & Night	EXT, Color, B&W, AUTO					
IR LED	2 Array LED (20m)	3 Array LED (25m)	3 Array LED (25m)	3 Array LED (25m)	4 Array LED (40m)	N/A
OSD Menu	Available (11 Languages, AHD/CVBS Output selectable)					
Backlight Compensation	OFF/BLC/HSBLC					
S/N Ratio	≥60dB (AGC Off)					
White Balance	AWB, ATW, AWC (Push), Indoor, Outdoor, Manual					
Noise Reduce	3D-DNR (For AHD), 2D-DNR (For Analog)					
Video Output	AHD / CVBS (Signal Selectable from OSD)					
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	3.6mm	2.8-12mm	CS Mount
Power	DC12V±10%, ~310mA	DC12V±10%, ~400mA	DC12V±10%, ~250mA	DC12V±10%, ~410mA	DC12V±10%, ~480mA	DC12V±10%, ~100mA
Operation temp.	-10℃~+50℃ (14℉~122℉)					
Dimension	104*70.8*93.2mm	129.5*90*119mm	45*119.5mm	206.5*67.6*68.5mm	286*77*85.6mm	123.5*63.7*65mm
Net Weight	269g	476g	810g	380g	836g	300g

PRO-AHD camera (1080P)

DI-390AHD36 / DI-390AHDVF
I3-390AHD36 / I4-390AHDVF

Model	DI-390AHD36	DI-390AHDVF	I3-390AHD36	I4-390AHDVF
Image Sensor	1/3" 2MP Sony 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 Array LED (20m)	3 Array LED (25m)	3 Array LED (25m)	4 Array LED (40m)
OSD Menu	Available (11 Languages, AHD/CVBS Output selectable)			
Backlight Compensation	OFF/BLC/HSBLC			
S/N Ratio	≥72dB (AGC Off)			
White Balance	AWB, ATW, AWC (Push), Indoor, Outdoor, Manual			
Noise Reduce	3D-DNR (For AHD), 2D-DNR (For Analog)			
Video Output	AHD / CVBS (Signal Selectable from OSD)			
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	3.6mm	2.8-12mm
Power	DC12V±10%, ~310mA	DC12V±10%, ~400mA	DC12V±10%, ~410mA	DC12V±10%, ~480mA
Operation temp.	-10℃~+50℃ (14℉~122℉)			
Dimension	104*70.8*93.2mm	129.5*90*119mm	206.5*67.6*68.5mm	
Net Weight	269g	476g	380g	286*77*85.6mm

ECO-AHD camera (720P)

DI-380AHDE36 / DI-380AHDEVF
I1-380AHDE36 / I3-380AHDE36 / I4-380AHDEVF

Model	DI-380AHDE36	DI-380AHDEVF	I1-380AHDE36	I3-380AHDE36	I4-380AHDEVF
Image Sensor	1/3" 1MP Sensor				
Effective Pixels	1280(H)×720(V)				
Scanning System	Progressive				
Resolution	Digital:1280×720P, Analog:960H				
Min. Illumination	0.1Lux / (0Lux IR On)				
Day & Night	EXT, COLOR, B&W, AUTO				
IR LED	24 LED (15m)	36 LED (25m)	24 LED (15m)	36 LED (25m)	42 LED (35m)
OSD Menu	Available (11 Languages, AHD/CVBS Output selectable)				
Backlight Compensation	OFF/BLC/HSBLC				
S/N Ratio	≥44dB (AGC Off)				
White Balance	AWB, ATW, AWC (Push), Indoor, Outdoor, Manual				
Noise Reduce	3D-DNR (For AHD), 2D-DNR (For Analog)				
Video Output	AHD / CVBS (Signal Selectable from OSD)				
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	3.6mm	3.6mm	2.8-12mm
Power	DC12V±10%, ~230mA	DC12V±10%, ~250mA	DC12V±10%, ~190mA	DC12V±10%, ~360mA	DC12V±10%, ~380mA
Operation temp.	-10℃~+50℃ (14℉~122℉)				
Dimension	104*70.8*93.2mm	129.5*90*119mm	163*60*60mm	206.5*67.6*68.5mm	286*77*85.6mm
Net Weight	269g	476g	275g	380g	836g