

HIGH RESOLUTION DOME CAMERA OPERATION MANUAL



Thank you for choosing our high quality camera.

Before attempting to connect operate this unit, please read and follow these instructions.

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1. CAUTIONS

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions;

- 1. This device may not cause harmful interference.
- 2. This device must accept any interference received, including interference that may cause undesired operation.

Note

This equipment has been tested and found to comply with limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- . Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / tv technician for help.

Caution

Any changes or modifications in construction of this device which are not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

A CAUTION

 A regulated DC12V 1A power supply is recommended for use with this camera for the best picture and the most stable operation.
 An unregulated power supply can cause damage to the camera.
 When unregulated power supply is applied, product warranty will be out of subject.

- 2. It is recommended that the camera is used with a monitor that has a CCTV quality 75 video impedance level.
 - If your monitor is switched to high impedance then please adjust accordingly.
- Do not attempt to disassemble the camera to gain access to the internal componets. Refer servicing to your dealer.
- Never face the camera towards the sun or any bright or reflective light, which may cause smear on the picture and possible damage to the CCD.
- 5. Do not remove the serial sticker for the warranty service.
- 6. Do not expose the camera to rain or other types of liquid.
- The apparatus must be connected to a mains socket-outlet with a protective earthing connection.

1. CAUTIONS



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

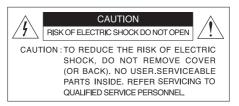
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicate that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources.

This product should not be mixed with other commercial wastes purchased this product, or their local government office, for details of where and how they can take item for environmentally safe recycling.

Business users should contact their supplier and check the terms and conditions of the purchase contract.

Household users should contact either the retailer where they for disposal.





This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance

2.Features

- 1/3 960H SONY EXview HAD CCD II
- High Resolution of 700TV Lines
- OSD Function
- Multi Language
 (ENGLISH / JAPANESE / GERMAN / FRENCH / RUSSIAN / PORTUGUESE / SPANISH / CHINESE)
- 2DNR
- Privacy Zone
- Motion Detect
- DC12V / AC24V Dual Voltage
- ATR(Adaptive Tone-curve Reproduction / Digital WDR)

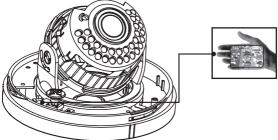
The function provides gradation compensation to improve the contrast of subjects both low-luminance areas and high luminance areas exist in the same picture

• 3-Axis Gimbal



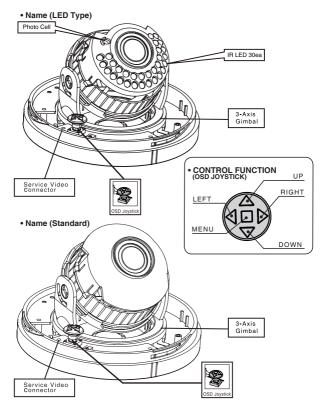
Service Video connector

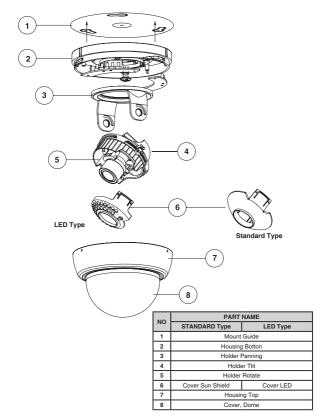
The Service Video Connector also provides the installer with an easy way of configuring the camera.



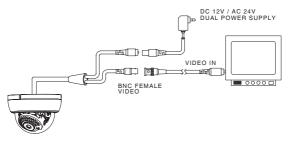
3.Package

1	DOME CAMERA	
2	VIDEO OUTPUT TEST CABLE	
3	OPERATION MANUAL	
4	SCREW - 3ea	PP
5	MOUNT GUIDE	

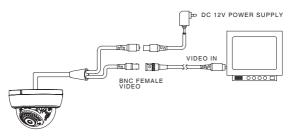




• DUAL(DC 12V/AC24V)



DC 12V

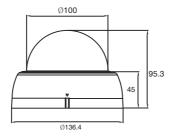


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When you install the camera, please glue up the end of cable to keep it stable in order to protect the camera from the humidity problems.

7.Dimensions

Unit : mm



8.Specifications

Signal Format		NTSC	PAL		
Image Device		1/3"960H SONY EX	1/3 ^{2960H} SONY EXview HAD CCD II		
Scanning System		2:1 Inter	2:1 Interlace		
H.Resolution		700TV L	700TV Lines		
Scanning Frequence	су	H:15.734KHz, V:59.94Hz	H:15.625KHz, V:50Hz		
Total Pixels		1020(H) X 508(V)	1020(H) X 596(V)		
Effective Pixels		976(H) X 494(V)	976(H) X 582(V)		
Electronic Shutter	Speed	1/60 sec	1/50 sec		
S/N Ratio		More than 50d	More than 50dB(AGC Off)		
Gamma		r=0.45			
Min. Illumination		COLOR : 0.05Lux/F1.2,	COLOR : 0.05Lux/F1.2, BW : 0.02 Lux/F1.2		
Sync System		Intern	Internal		
Video Output		1.0 Vp-p Comp	1.0 Vp-p Composite(75Ω)		
OSD		Built in (Inner Key / Joystick)			
BLC		OFF / BLC / HLC			
White Balance		ATW / PUSH / USER1 / USER2 / ANTI CR / MANUAL / PUSH-LOCK			
2DNR		OFF / ON (Level adjustable)			
ATR		OFF / ON (Level adjustable)			
Function		MIRROR / BRIGHTNESS / CONTRAST / SHARPNESS / HUE / GAIN			
Privacy Masking		4 Zones			
Motion Detection		4 Zones			
Day & Night		AUTO			
Language		ENGLISH / JAPANESE / GERMAN / FRENCH / RUSSIAN/ PORTUGUESE / SPANISH / CHINESE			
Power	DC12V	DC 12V (±10%)	Max.120mA		
Consumption	Dual	DC 12V (±10%) Max.150mA ,	AC 24V (±10%) Max. 2.3W		
Operating Temperature		-10°C ~ +50°C			
Storage Temperature		-20°C ~ +60°C			
Operating Humidity		Less than 80%			
Options		Dual Power			
Weight		Approx. 343g			
Dimension(mm)		136.4(Φ) x 95.3(mm)			

LED TYPE

Power	DC12V	DC 12V (±10%) Max. 320mA	
Consumption	Dual	DC 12V (±10%) Max 390mA , AC 24V (±10%) Max. 4.8W	
Min. Illumination		0 Lux (IR LED ON)	
IR LED		850nm, 30ea	
IR Beam Range		Up to 30M	
IR LED Operation		On : 1 Lux, Off : 3 Lux	

Specifications and designs are subject to change for improving the functionality of this product without notice.

9. OSD MENU STRUCTURE

MAIN MENU	1st Sub MENU	2nd Sub MENU	3rd Sub MENU	4th Sub MENU
LENS	MANUAL			
		TYPE	DC	
		MODE	AUTO, OPEN, CLOSE	1
	AUTO	SPEED	(000 - 255)	1
		RETURN		1
		HIGH LUMINANCE	MODE	SHUT, AUTO IRIS, SHUT+AUTO IRIS
		Indir EdwinkAndE	BRIGHTNESS	(000 - 255)
	AUTO	LOW LUMINANCE	MODE	AGC,OFF
			BRIGHTNESS	x0.25,x0.50,x0.75,x1.00
SHUTTER		RETURN	ļ	
/ AGC		MODE	SHUT+AGC	-
	MANUAL	SHUTTER	1/50(PAL),1/100(NTSC) 1/60(NTSC),1/120(PAL) 1/250,1/500,1/1000 1/2000,1/4000,1/10000	
		AGC	6,12,18,24,30,36,42,44.8]
		RETURN		
		SPEED	(000 - 255)	
		DELAY CNT	(000 - 255)	
	ATW	ATW FRAME	x0.50,x1.00,x1.50,x2.00	
		ENVIRONMENT	INDOOR,OUTDOOR	
		RETURN	ļ	
	PUSH			
		B-GAIN	(000 - 255)	-
WHITE BAL	USER1	R-GAIN	(000 - 255)	-
DAL		RETURN B-GAIN	(000 055)	
	USER2	B-GAIN B-GAIN	(000 - 255) (000 - 255)	1
	USER2	RETURN	(000 - 233)	-
	ANTI CR			
		LEVEL	24 - 103	
	MANUAL	RETURN		1
	PUSH LOCK		1	1
BACK LIGHT	OFF,BLC,HLC	1		1
	MIRROR	OFF,ON	1	1
	BRIGHTNESS	(000 - 255)	1	
	CONTRAST	(000 - 255)	1	
PIC	SHARPNESS	(000 - 255)	1	
ADJUST	HUE	(000 - 255)	1	
	GAIN	(000 - 255)	1	
	RETURN		1	
ATR		LUMINANCE	LOW,MID,HIGH	
	ON	CONTRAST	LOW,MIDLOW,MID,MIDHIGH,HIGH	1
		RETURN		1
	OFF		1	i

*SHUT+IRIS: Both the Shutter and the Mechanical Iris are automatically adjusted according to brightness. *Auto Iris(Default): The Shutter stays at the manually selected value and only the Mechanical Iris adjusts to brightness.

9. OSD MENU STRUCTURE

MOTION ON DETECT SENSE (000 - 255) BLOCK DISP OFF,ONENABLE (CONTROLER) MONITOR AREA ON,OFF MOTION AREA SEL 1/4, 2/4, 3/4, 4/4 TOP NTSC:000 - 244) / PAL: (000 - 288) BOTTOM NTSC:000 - 64/1 / PAL: (000 - 288) EETURN NTSC:000 - 64/1 / PAL: (000 - 488) NEXT EXT SAVE ALL NTSC:000 - 64/1 / PAL: (000 - 488) PRIVACY OFF I1/4, 2/4, 3/4, 4/4 NTSC:000 - 64/1 / PAL: (000 - 488) NEXT EXT SAVE ALL II/4, 2/4, 3/4, 4/4 NTSC:000 - 64/1 / PAL: (000 - 288) PRIVACY ON AREA SEL 1/4, 2/4, 3/4, 4/4 NTSC:000 - 64/1 / PAL: (000 - 288) ILEFT NTSC:000 - 64/1 / PAL: (000 - 288) BOTTOM NTSC:000 - 64/1 / PAL: (000 - 288) ILEFT NTSC:000 - 64/1 / PAL: (000 - 288) EFT NTSC:000 - 64/1 / PAL: (000 - 288) ILEFT NTSC:000 - 64/1 / PAL: (000 - 648) EFT NTSC:000 - 64/1 / PAL: (000 - 648) COLOR (1 - 8) TTANSP 0.00, 0.50, 0.75, 1.00 NTSC:000 - 64/1 / PAL: (000 - 648) OFF RETURN ETURN II/4 II/4 II/4 II/4 <th>MAIN MENU</th> <th>1st Sub MENU</th> <th>2nd Sub MENU</th> <th>3rd Sub MENU</th> <th>4th Sub MENU</th>	MAIN MENU	1st Sub MENU	2nd Sub MENU	3rd Sub MENU	4th Sub MENU
MONITOR AREA ON.OFF MOTION I/4, 2/4, 3/4, 4/4 TOP NEXT I/14, 2/4, 3/4, 4/4 NTSC:000 - 244) / PAL: (000 - 288) RETURN IEFT NTSC:000 - 474) / PAL: (000 - 488) RETURN NTSC:000 - 474) / PAL: (000 - 488) RETURN IFT NTSC:000 - 474) / PAL: (000 - 488) RETURN IFT NTSC:000 - 474) / PAL: (000 - 488) NEXT IFT NTSC:000 - 474) / PAL: (000 - 488) RETURN IFT NTSC:000 - 474) / PAL: (000 - 488) PRIVACY OFF IFT NTSC:000 - 474) / PAL: (000 - 288) INCOR IFT NTSC:000 - 474) / PAL: (000 - 488) PRIVACY ON AREA SEL IFT NTSC:000 - 474) / PAL: (000 - 488) INCOR IFT NTSC:000 - 474) / PAL: (000 - 488) IFT INGHT NTSC:000 - 474) / PAL: (000 - 488) IFT INGACY OFF IFT NTSC:000 - 474) / PAL: (000 - 488) INGNODE OFF,ON IFTANSP IFTANSP IFTANSP INGACY OFF IFTANSP IFTANSP IFT			DETECT SENSE	(000 - 255)	
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Image: Second		ON		ТОР	NTSC:(000 - 244) / PAL: (000 - 288)
Image: Prime	DET			BOTTOM	NTSC:(000 - 244) / PAL: (000 - 288)
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CAMERA RESET BACK EXIT	LANGUAGE				
EXIT	CAMERA				
	BACK				
	EXIT				
	SAVE ALL				

*Important Note :

 Any changes made to the camera settings must be saved prior to exiting the OSD menu. Else all changes will be discarded.

 By changing the lens option in the OSD from MANUAL to AUTO will automatically change the SHUTTER/AGC setting from AUTO IRIS to SHUT+AUTO IRIS.(Default:AUTO IRIS)