B7IR960 / B7IRW960 700 Line Outdoor IR Bullet Cameras w/OSD

Northern

Sony 960H Chip, WDR, OSD, DNR, 60' IR Range, 3.6mm Lens
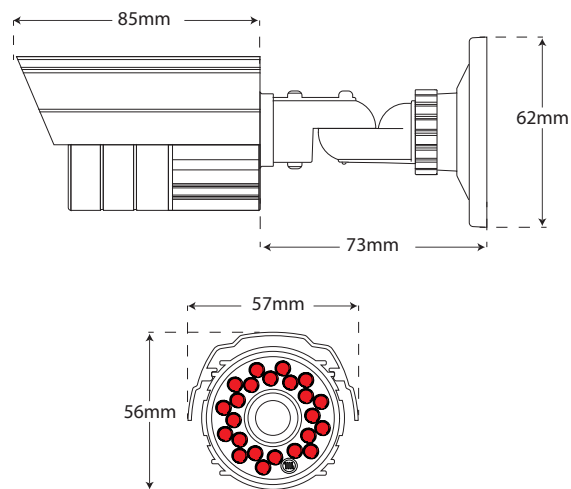
PRODUCT FEATURES

- Sony 960H Chip / 700 Line Resolution
- 3-Axis Cable Management Mount
- OSD Control of All Major Functions
- Digital Wide Dynamic Range
- Digital Noise Reduction
- Day/Night Operation
- 3.6mm Fixed Focal Lens
- 18 IR LED's / 60 Foot IR Range
- IP66 Weatherproof Rating
- 12 Volts DC Power Required

SPECIFICATIONS

Model No.	B7IR960	B7IRW960
Imaging Device	960H 1/3" SONY Super HAD II CCD	
Resolution	700 TV Lines	
Minimum Illumination	0.0 Lux (IR LED On)	
Lens Size	3.6mm Fixed Focal Lens	
IR LED Range / IR LED Count	60 Feet / 18 Pieces	
IR LED Wavelength	850nm	
Maximum Aperture	F2.0	
S/N Ratio	More than 52db	
Electronic Shutter Speed	AUTO, FLK, 1-60 ~ 1/100,000	
OSD (On Screen Display)	Yes (Cable Mounted)	
BLC (Backlight Compensation)	OFF / BLC / HBLC	
AGC Automatic Gain Control	AUTO / MANUAL	
White Balance	ATW, MANUAL, USER 1, USER 2	
Day-Night	COLOR / BW / AUTO / EXT 1 / EXT 2	
DNR (Digital Noise Reduction)	ON / OFF	
D-WDR (Digital Wide Dynamic Range)	ON / OFF / LUMINANCE / CONTRAST	
Motion Detection	ON / OFF 4 - Zones Programmable	
Privacy Masking	ON / OFF 8 - Zones Programmable	
Sharpness	(Adjustable 0~255)	
TV System	NTSC	
Effective Pixels	976 (H) X 495 (V)	
Scanning System	2:1 Interlaced	
Sync System	Internal Negative Sync	
Video Output	1.0Vp-p 75 OHM Composite BNC	
Gamma Characteristics	0.45	
Power Requirement / Consumption	12 Volts DC / 400mA	
Operating Temperature	-14°F ~ 122°F	
Weight	1.5 Lb.	
Housing / Color	Aluminum (Gray)	Aluminum (White)
Dimension	2.5" x 2.2" x 6.2"	
Weatherproof Rating	IP66	

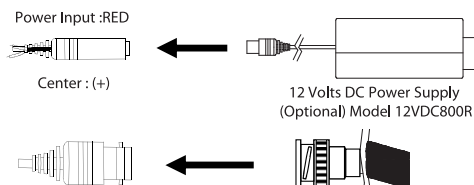* All specifications subject to change without notice for quality improvement

CAMERA DIMENSIONS / LINE ART

85mm · 62mm · 73mm · 57mm · 56mm

CAMERA CABLE CONNECTION

Insert power lead into power connector (insure proper voltage is supplied and observe polarity).

Insert video lead into BNC connector (push, then twist to lock BNC connector in place).

Power Input :RED

Center : (+)

12 Volts DC Power Supply (Optional) Model 12VDC800R

OSD CONTROL

Press the Joystick button on the cable mounted OSD control to access the OSD menu.

In-Line Cable Mounted OSD Control

PACKAGE CONTENTS

1. Camera
1. User Manual
1. Allen Wrench
1. Mounting Screws

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OSD MENU TREE

	Lens		Manual		
OSD Menu	SHUTTER / AGC	Auto	High Luminance Mode SHUT / Brightness 0~255 Adjustable		
			Low Luminance Mode AGC / OFF - Brightness x0.25 ~ x 1.00 Adjustable		
		Manual	Mode = SHUT+AGC		
			SHUTTER = 1/60, 1/120, 1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000		
			AGC = 6, 12, 18, 24, 30, 36, 42, 44.8		
	WHITE BALANCE	ATW	SPEED = 0~255 / DELAY CNT = 0~255 / ATW FRAME = x0.50. x1.00, x1.50, x2.00		
			ENVIRONMENT = INDOOR/ OUTDOOR		
		MANUAL	Level 24~90 Adustable		
		USER 1 / USER2	B-GAIN / R-GAIN LEVEL 0~255 Adjustable		
			ANTI CR		
			PUSH		
			PUSH LOCK		
	BACKLIGHT		OFF / BLC / HLC		
	PICTURE ADJUST		MIRROR = ON/OFF		
			BRIGHTNESS = 0~255 Adjustable		
			CONTRAST = 0~255 Adjustable		
			SHARPNESS = 0~255 Adjustable		
			HUE = 0~255 Adjustable		
			GAIN = 0~255 Adjustable		
	D-WDR	ON / OFF	ON = Luminance = MID - LOW - HIGH CONTRAST = LOW - MID - MIDLOW - MIDHIGH - HIGH		
	MOTION DET		OFF		
		ON - 4 ZONE	DETECT SENSE = 0~127		
			BLOCK DISP = OFF / ON ON = 16X24 Grid Adjustable		
			MONITOR AREA = ON/OFF		
			AREA SELECT 1/4, 2/4, 3/4, 4/4, TOP, BOTTOM, LEFT, RIGHT Adustable		
	PRIVACY		OFF		
		ON - 8 ZONE	AREA SELECT 1/8 ~ 8/8 , TOP, BOTTOM, LEFT, RIGHT Adustable		
			COLOR = 1~8 Selectable		
			TRANSP = 0.25, 0.50, 0.75, 1.00		
			MOSAIC ON/OFF		
	DAY/NIGHT	Auto	BURST = ON/OFF, DELAY COUNT = 0~255, DAY->NIGHT = 0~255, NIGHT->DAY = 0~255		
		B/W	BURST = ON/OFF		
			IR OPTIMIZER = ON / OFF	MODE = AUTO, CENTER	
				LEVEL = 0~31	
			EXT1 / EXT2		
			COLOR		
	2-DNR	NR MODE	YC = Y LEVEL, C LEVEL 0~15 Adustable		
			C = C LEVEL 0~15 Adustable		
			Y = Y LEVEL, 0~15 Adustable		
			OFF		
	CAMERA ID	ON/OFF	ON = 50 Characters Maximum, Position Selectable		
	SYNC		INT		
	LANGUAGE		ENGLISH, CHINESE, JAPANESE, SPANISH PORTUGUESE, RUSSIAN, FRENCH, GERMAN		
			CAMERA RESET / BACK / EXIT / SAVE ALL		