

Semi Autofocus 2.8 ~ 12mm Lens, 90' IR Range

PRODUCT FEATURES

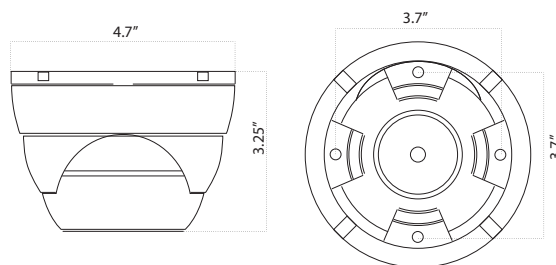
- Multi Format (TVI, CVI, AHD, 960H)
- Semi-Autofocus 2.8 ~ 12mm Lens
- Full HD 1080p Resolution
- 24 IR LED's / 90' IR Range
- True Day/Night Mechanical IR Cut Filter
- Digital Wide Dynamic Range
- Sense-up / Slow Shutter Speed
- UTC & Joystick Controllable OSD
- 12 Volt DC Power
- 3D Digital Noise Reduction
- 1/2.9" Sony CMOS Sensor
- IP66 Weatherproof

SPECIFICATIONS

Model No.	HDMEIR90	HDMEIR90W
Image Sensor	1/2.9" CMOS Sensor	
Total Pixels	1984 x 1225	
Active Pixels	1920 x 1080	
Resolution	1920 x 1080 (1080p)	
Scanning System	Progressive Scan	
OSD (On Screen Display)	Dual OSD Access: Cable OSD Controlled / UTC Controlled (coaxial control)	
Digital WDR (Wide Dynamic Range)	Auto / Off / On - 0 ~ 8 Adjustable	
DNR (Digital Noise Reduction)	2D & 3D, Low, Middle, High, Off	
Video Output	TVI, CVI, AHD & 960H (Selectable via Dipswitch)	
Lens Type / Viewing Angle	TDN Semi Auto-Focus 2.8 ~ 12mm Lens / 28° ~ 90°	
Sense-up	Off / Auto (x2 ~ x30 Selectable)	
Shutter Speed	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30	
IR Cut Filter	Built in Mechanical	
Minimum Illumination	Color 0.1 Lux, B/W 0.05 Lux, IR LED ON 0.0 Lux	
IR LED Count / Range	24 IR LED's / 90' Range / 850nm	
S/N Ratio	More than 52dB	
Automatic Gain Control	0 ~ 15 Adjustable	
Sync System	Internal	
Gamma Characteristics	γ = 0.45 typ	
White Balance	AWB / ATW / AWC -> Set / Indoor / Outdoor / Manual	
Back Light Compensation	Off / BLC / HSBLC	
HBLC (High Back Light Compensation)	On / Off	
Day/Night	EXT / Auto / Color / B/W	
Mirror	Mirror / V-Flip / Rotate / Off	
Languages	English, French, Spanish, German, Italian (see OSD Menu for more)	
Brightness	0 ~ 100 Adjustable	
Motion Detection	On/Off (4 Zone Selectable)	
Privacy Mask	On/Off (4 Zone Selectable)	
Power Input	12VDC Only	
Power Requirement	150mA / 430 mA IR LED ON	
Overall Camera Dimensions	Ø 4.72" x 3.93" (120mm x 100mm)	
Housing / Color	Grey	White
Weight	1.7lb	
Operating Temperature	-14°F ~ 122°F	
Weatherproof Rating	IP66	

* All specifications subject to change without notice for quality improvement

CAMERA DIMENSIONS / LINE ART



CAMERA COMPONENT DESCRIPTIONS



CAMERA CABLE CONNECTION

Insert power lead into power connector: be sure proper voltage is supplied and observe polarity.

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

Power Input



Center : (+)

Video Input



OSD CONTROL

Press Up/Down to Zoom In/Out
Press Left/Right for Fine Focusing

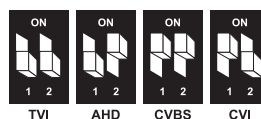
In-Line Cable Mounted OSD Control

Press in on the OSD button to access the OSD menu and sub-menus

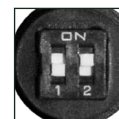
While in the OSD menu - press up, down, left and right to navigate/change OSD settings



FORMAT SELECTOR SWITCH



Cable Mounted Dip Switch



PACKAGE CONTENTS

- (1) Camera
- (1) Mounting Hardware Packet
- (1) User Manual

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OSD MENU TREE

OSD Menu	Lens		Manual		
	Exposure	Shutter	Auto, FLK, 1/30 ~ 1/50,000, x2 ~ x30		
		AGC	0 ~ 15 Adjustable		
		Sens-up	Off / Auto (x2, x4, x6, x8, x10, x15, x20, x25, x30)		
		Brightness	0 ~ 100 Adjustable		
		D-WDR	Auto / Off / On - 0 ~ 8 Adjustable		
		Defog	Off / Auto - Position/Size, Gradation (1 ~ 2)		
	Backlight	BLC	Off, High, Middle, Low - Area Adjustable		
		HSBLC	Display	On/Off 4-Area Position & Size Adjustable	
			Blk. Mask	On/Off	
			Level	0 ~ 100 Adjustable	
	Mode		All Day / Night, 0 ~ 255 Adjustable		
	White Bal	ATW	ATW / AWB		
		AWC ->Set	AWC ->Set		
		Indoor	Indoor		
		Outdoor	Outdoor		
		Manual	Red & Blue, 0 ~ 100 Adjustable		
	Day & Night	Color			
		EXT	D->N	3 ~ 60 Adjustable	
			N->D	3 ~ 60 Adjustable	
		Auto	D->N	AGC - 1 ~ 240 Adjustable	
			D->N	Delay - 1 ~ 60 Adjustable	
			N->D	AGC - 1 ~ 240 Adjustable	
			N->D	Delay - 1 ~ 60 Adjustable	
		B&W	Burst,	Off-On	
			IR Smart	Off-On Level & Size Adjustable	
		NR	2DNR	Low, Middle, High, Off	
	3DNR		Low, Middle, High, Off		
	Special	Cam Title	Off / On 15 Characters Available		
		D-Effect	Freeze	On/Off	
			Mirror	Mirror / V-Flip / Rotate / Off	
			Neg. Img	On / Off	
		Motion	Off		
			On	4 Area - Sensitivity, Size, Position Color & Transparency Adjustable	
		Privacy	Off		
			On	4 Area - Sensitivity, Size, Position Color & Transparency Adjustable	
		Language	English, French, Spanish, German, Italian, Polish, Russian, Portugese, Netherlands, Turkish, Korea, Japan, Hebrew, Arabic, Chinese 1 & 2		
		Defect	Live DPC		
			White DPC		
	Black DPC				
	Adjust	Sharpness	Off / Auto (Level 1 ~ 10 Adjustable, Start AGC & End AGC Adjustable)		
		Monitor	CRT	Blue & Red Gain 0 ~ 100 Adjustable	
			LCD	Gamma (User, .45 ~ 1.0 Adjustable) / Blue & Red Gain 0 ~ 100 Adjustable	
		LSC	Off / On		
	Video Out	NTSC / PAL			