

HDEG-E80F-DI-M1

8MP Dual Illumination HD-AVS Eyeball Camera



- 3840 × 2160 (4K)@ 15fps
- AVS/CVBS/AHD/TVI multi format output
- 120 dB true WDR, 3DNR, Super Adapt
- 2.8 mm fixed lens, Built-in mic
- Smart Dual Illumination, Max. distance 65 feet
- IP67, 12V DC ± 30%

System Overview

IC Realtime revolutionizes the coax lineup with the HDEG-E80F-DI-M1. This eyeball turret camera features our new coax Smart Dual illumination. When used with an IC Realtime AI HDVR, the camera switches from IR mode to visible light mode when a target is detected by an AI rule—allowing the camera to have an unassuming presence, but also capture a target in full color, 24-7! This 4K camera also features a built-in mic as well as Super Adapt and 120dB WDR.

The camera also offers exceptional installation flexibility with AVS/ AHD/ TVI and CVBS multi format support and HD quality images with the simplicity of reusing existing coaxial infrastructure as well as compatibility with many third party coaxial recorders

System Overview

Smart Dual Illumination

This camera is equipped with both invisible Infrared and visible white light illumination. When combined with a supported IC Realtime HDVR, the camera will provide IR illumination at night, and then switches to visible light when a target is detected by a Perimeter Protection rule or Intelligent motion detect.

Multiple-format OSD

The camera supports multiple video formats including HD-AVS, CVBS, TVI and AHD. Accessing the camera's OSD allows you to quickly toggle formats, further simplifying installation and debugging. This feature makes the camera compatible with not only AVRs, but also most existing HD/SD DVRs.

Super Adapt

This camera comes equipped with an intelligent algorithm, which enables the camera to automatically adjust parameters based on the external environment to present the optimal image.

Simplicity

HD-AVS technology inherits the born feature of simplicity from traditional analog surveillance system, making itself a best choice for investment protection. HD-AVS system can seamlessly upgrade the traditional analog system without replacing existing coaxial cabling. The plug and play approach enables full HD video surveillance without the hassle of configuring a network.

Wide Dynamic Range

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Protection

The camera's outstanding reliability is unsurpassed due to its rugged design. The camera is protected against water and dust with IP67 rating, making it suitable for indoor or outdoor environments.

Advanced 3DNR

3DNR is noise reduction technology that detects and eliminates random noises by comparing two sequential frames. IC Realtime's advanced 3DNR technology allows remarkable noise reduction with little impact to sharpness, especially under limited lighting conditions. 3DNR also effectively decreases the required bandwidth and helps lower storage space requirements.

Technical Specification

Camera

Image Sensor	4K CMOS
Effective Pixels	3840 × 2160 (8MP)
Scanning System	Progressive
Electronic Shutter Speed	NTSC: 1/30 s–1/100000 s PAL: 1/25 s–1/100000 s
Minimum Illumination	0.01 lux@F2.0 (Color, 30 IRE) 0.001 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>65 dB
IR Distance	65.62 ft (20 m)
White LED Distance	65.62 ft (20 m)
IR On/Off Control	Auto / Manual
IR Illuminators	1x IR LED, 1x Warm Light LED
Smart Dual Illumination	Supported* (With appropriate HDVR and firmware)

Lens

Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8mm			
Max. Aperture		F2.0			
Angle of View		Horizontal: 106° Vertical: 56°			
Focus Control		Fixed			
Close Focus Distance		4.27 ft (1.3 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	288 ft	115 ft	57 ft	28 ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°
-------------------------	---

Video

Resolution		4K (3840 × 2160); 5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/960 × 480)
Frame Rate	AVS	NTSC:4K@15 fps;5M@25 fps;4M@30fps;1080p@30 fps PAL: 4K@15 fps; 5M@25 fps; 4M@25fps;1080p@25 fps
	AHD	NTSC: 4K@15 fps PAL: 4K@15 fps
	TVI	NTSC: 4K@15 fps PAL: 4K@15 fps
	CVBS	NTSC: 960H PAL: 960H
Day/Night		Auto(ICR)/Color/B/W
WDR		120 dB
BLC Mode		BLC; HLC; WDR; HLC-Pro
Gain Control		Auto / Manual
Noise Reduction		3D NR
White Balance		Auto / Manual
Smart IR		Support
Defog		Electronic defog
Mirror		Off/On
Privacy Masking		Off/On (8 areas, rectangle)

Certifications

Certifications	FCC Part 15 subpart B,
----------------	------------------------

Interface

Video Interface	1 BNC port Video output formats: AVS/ TVI/ AHD/ CVBS (Toggled by OSD)
Audio Interface	Built-in Mic
RS485	N/A
Alarm	N/A

Electrical

Power Supply	DC 12V ±30%
Power Consumption	Max 4.2 W (12 VDC, Illuminators on)

Environmental

Operating Conditions	–22°F to +140°F (–40°C to +60°C); < 95% (non-condensation)
Storage Conditions	–22°F to +140°F (–40°C to +60°C); < 95% (non-condensation)
Ingress Protection	IP67
Anti-corrosion Level	Low

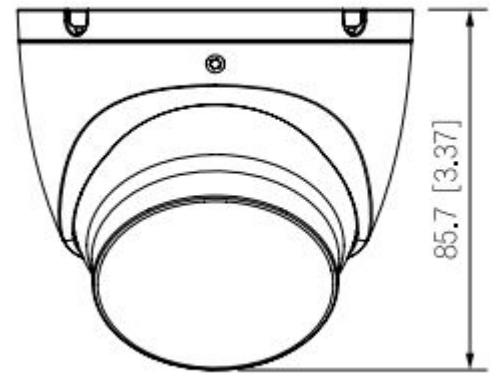
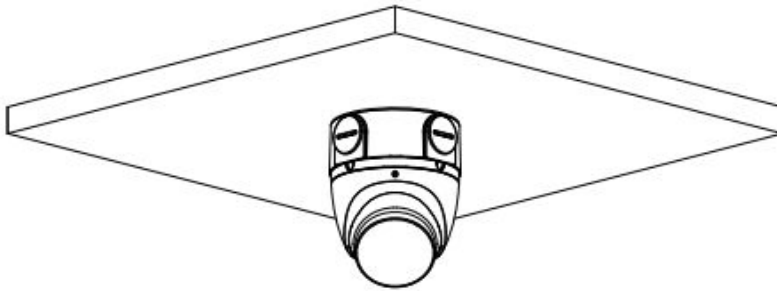
Construction

Casing	Plastic dome cover +metal upper casing and pedestal
Dimensions	φ3.70" × 3.37" (φ94.0 mm × 85.7 mm)
Net Weight	0.73 lb (0.33 kg)
Gross Weight	1.04 lb (0.47 kg)

Mounting

Dimensions (mm/in)

MNT-JUNCTIONBOX-1



MNT-IPMINIDOME-WALL

