

HDEG-E80V-IRM1

4K Starlight Motorized Varifocal HD-AVS Eyeball Camera



- 3840 × 2160 (4K)@ 15fps
- AVS/CVBS/AHD/TVI multi format output
- HLC-Pro, 120 dB WDR, 3DNR, Super Adapt
- 2.7 mm–13.5 mm, Motorized Varifocal Lens
- Smart IR, Max. distance 196 feet
- Built-in Mic, IP67, 12V DC ± 30%

System Overview

Bring 4K resolution to your HDVR coax systems with the HDEG-E80V-IRM1. With a 8MP (3840 × 2160) resolution, this motorized Varifocal turret eyeball camera provides an excellent image under the most challenging lighting situation by utilizing Super Adapt and 120dB WDR combined with an exceptional 196 ft (60m) IR distance. Furthermore, the camera is equipped with a built-in microphone for onboard audio and IP67 weather protection.

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 IR

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts to the intensity of camera's infrared LEDs to compensate for the distance of an object. Smart IR technology prevents IR LEDs from whiting out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 60m (196ft).

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 (IP67, Wide Voltage)

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.

It also features ±30% input voltage tolerance, allowing it to operate under unstable power supply conditions. Its 4KV lightning rating provides protection from the effects of a lightning strike.

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	8 Megapixel CMOS
Effective Pixels	3840 (H) × 2160 (V) 8MP/4K
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@F1.5 (Color, 30 IRE) 0.001 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)
S/N Ratio	>65 dB
IR Distance	196 ft (60 m)
IR On/Off Control	Auto / Manual
IR Illuminators	2x IR LED
Smart IR	Supported

Lens

Lens Type		Motorized Vari-focal			
Auto Focus		Supported			
Mount Type		ø14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.5			
Angle of View		Horizontal: 114°–32° Vertical: 58°–17°			
Focus Control		Auto Focus			
Close Focus Distance		4.27 ft (1.3 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	279 ft	111 ft	56 ft	27 ft
	T	918 ft	367 ft	183 ft	91ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°
-------------------------	---

Video

Resolution		4K (3840 x 2160); 5M (2880 x 1620); 4M (2560 x 1440); 1080p (1920 x 1080); 960H (960 x 576/960 x 480)
Frame Rate	AVS	NTSC: 4K@15 fps; 5M@25 fps; 4M@30 fps; 1080p@30 PAL: 4K@15 fps; 5M@25 fps; 4M@25 fps; 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-Pro; WDR
Gain Control		Auto / Manual
Noise Reduction		3D NR
White Balance		Auto;Area white balance
Digital Zoom		4x
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% (It is recommended to use a single power adapter to supply the power for one camera)
Power Consumption	Max 7.9W (12 VDC, IR on)

Environmental

Operating Conditions	–22 °F to +140 °F(–30 °C to +60 °C); < 95% (non-condensation)
Storage Conditions	–22 °F to +140 °F(–30 °C to +60 °C); < 95% (non-condensation)
Ingress Protection	IP67

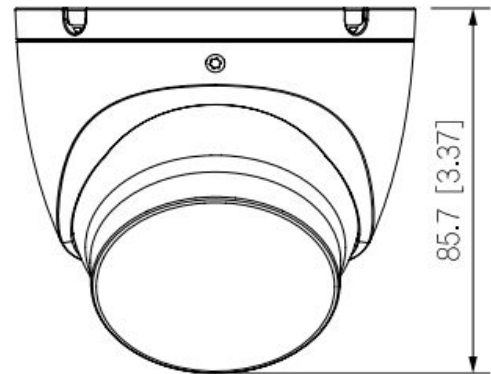
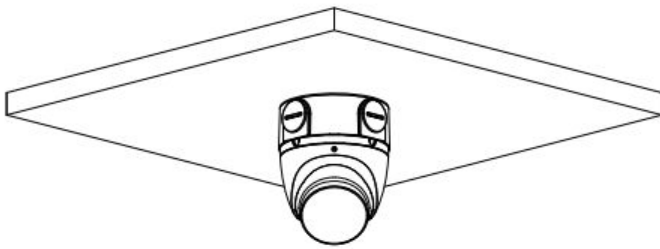
Construction

Casing	Metal
Dimensions	Φ4.80" × 4.13" (Φ122.0 mm × 104.8 mm)
Net Weight	1.26 lb (0.57 kg)
Gross Weight	1.63 lb (0.74 kg)

Mounting

Dimensions (mm/in)

MNT-JUNCTIONBOX-1



MNT-IPMINIDOME-WALL-4

