

HDMX-E50V-IR-DPM1

5MP Starlight HD-AVS Varifocal Eyeball Camera



- 25 fps@5MP (16:9 video output)
- AVS/CVBS/AHD/TVI multi format output
- Starlight, 120 dB true WDR, 3D NR
- 2.7 mm–13.5 mm motorized lens
- Smart IR, Max. IR length 196 feet
- Built-in Mic, IP67, Dual voltage: 24VAC/ 12VDC

System Overview

IC Realtime's HDMX-E50V-IR-DPM1 is the newest camera in the 16:9 aspect ratio, 5 Megapixel AVS series. This turret eyeball camera is equipped with a 2.7 mm–13.5 mm motorized lens paired with 120dB true WDR, HLC-Pro and Starlight support. This enables excellent image quality under the most demanding lighting conditions. The onboard Smart IR features a max IR length of 196 feet providing great night vision capabilities.

The camera also offers exceptional installation flexibility with AVS/ CVBS/ AHD and TVI multi format support, built-in microphone, 24VAC/ 12VDC dual voltage options as well as an IP67 weather protection.

System Overview

Multiple-formats

The camera supports multiple video formats including HD-AVS, CVBS, TVI and AHD. A DIP switch located on the cable 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.

Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening 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 196.9 ft (60 m).

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.

Starlight

With the adoption of large sized high performance sensor, the camera is able to provide incomparable performance even under extreme low light environment. The starlight feature allows more details to be captured and accurate color to be recognized at night or in scenes with limited illumination.

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	1/2.7" CMOS
Effective Pixels	2880 × 1620 (5MP, 16:9 Aspect Ratio)
Scanning System	Progressive
Electronic Shutter Speed	NTSC: 1/4 s–1/100,000 s PAL: 1/3 s–1/100,000 s
Minimum Illumination`	0.001 Lux/F1.6; 30IRE; 0 Lux IR on
S/N Ratio	More than 65dB
IR Distance	196.9 ft (60 m)
IR On/Off Control	Auto / Manual
IR Illuminators	2

Lens

Lens Type	Motorized vari-focal				
Mount Type	φ14				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F 1.6				
Angle of View	Horizontal: 31.4°–113° Vertical: 17.6°–58°				
Focus Control	Fixed				
Close Focus Distance	2.6 ft (0.8 m)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.7mm	208.7 ft	83.3 ft	41.7 ft	21.0 ft
	13.5mm	689 ft	275.6 ft	137.8 ft	68.9 ft

Pan/Tilt/Rotation

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

Resolution	5M (2880 × 1620); 4M (2560 × 1440); 1080p (1920 × 1080); 960H (960 × 576/ 960 × 480)
Frame Rate	AVS:NTSC: 5M@25 fps; 4M@30 fps; 1080p@30 fps PAL: 5M@25 fps; 4M@25 fps; 1080p@25 fps
	AHD: NTSC: 4M@30 fps PAL: 4M@25 fps
Day/Night	TVI: NTSC: 4M@30 fps PAL: 4M@25 fps
	Auto switch by ICR
WDR	120 dB
BLC Mode	BLC/ HLC /HLC-Pro
Gain Control	Auto / Manual
Noise Reduction	3D NR
White Balance	Auto / Manual
Digital Zoom	4X
Smart IR	Support
Defog	Electronic defog
Mirror	Off/On

Certifications

Certifications	FCC Part 15 subpart B,
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Interface

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

Electrical

Power Supply	24V AC±25%/12V DC±10%
Power Consumption	Max. 9.5W (12V DC, 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
Vandal Resistance	N/A

Construction

Casing	Metal
Dimensions	4.8" × 4.13" (122 mm × 104.8 mm)
Net Weight	1.40 lb (0.63 kg)
Gross Weight	1.70 lb (0.79 kg)

Mounting

Dimensions (mm/in)

