

IPVMX-E40F-W1-LED

4MP Full-Color LED AI Eyeball Network Camera



- 4MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- H.265 & H.264 triple-stream encoding
- 4MP (2688 × 1520) @ 30 fps
- 2.8mm fixed lens, Built-In Microphone
- Warm light LEDs, up to 98ft of full color illumination
- 256GB Micro SD memory, IP67, PoE
- National Defense Authorization Act (NDAA) Compliant. Designed in the USA.

System Overview

The IPVMX-E40F-W1-LED is a 4MP Eyeball turret camera equipped with a 2.8mm lens on top of an 1/2.7" low illuminance, high image definition Starlight CMOS image sensor paired with warm light LED technology, reaching more than 98ft max distance at night. This combination provides a crisp, vibrant, full color image under the most demanding lighting conditions.

Designed in the USA, this NDAA compliant camera is ONVIF compliant, making it suitable for most third party NVRs and VMS.

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Functions

Smart (H.265+ & H.264+)

Deliver high quality video without straining the network, Smart H.265+ is the optimized implementation of H.265. The Smart H.265+ encoding technology includes a scene adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction, providing saving of up to 70% of bandwidth and storage when compared with standard H.265

Starlight Technology

Featuring Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.003 lux).

Full Color at Night

Utilizing a high-performance sensor and large aperture lens, IC Realtime's Full-color LED technology can display clear colorful image in the environment of ultra low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

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.

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Technical Specification

Camera

Image Sensor	1/2.7" CMOS
Effective Pixels	2688(H) x1520(V)
RAM/ROM	512 MB/128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3 s–1/100000 s
Minimum Illumination	0.003 Lux@F1.0
Illumination Distance	98.4 ft (30 m)
Illumination Control	Auto / Manual
Full color LEDs	2

Lens

Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	2.8mm				
Max. Aperture	F1.0				
Angle of View	Horizontal:103°; Vertical: 53°				
Close Focus Distance	2.6 ft (0.8 m)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	183 ft	73 ft	36 ft	18 ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0°-360°; Tilt: 0°-78°; Rotation: 0°-360°
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Video

Compression	H.265,H.264,H.264B,H.264H, MJPEG (sub stream)
Smart Codec	Smart H.265+ / Smart H.264+
Streaming Capability	3 Streams
Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main Stream: 2688 × 1520(1–25/30 fps) Sub Stream: 704 × 576@1-25/704×480 (1-30 fps) Third Stream: 720P(1–25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps
Day/Night	Color/B/W
BLC Mode	BLC / HLC / WDR(120dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual/Regional Custom

Certifications

Certifications	FCC Part 15, Subpart B
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Gain Control	Auto / Manual
Noise Reduction	3D DNR
Region of Interest	Off / On (4 Zone)
Smart IR	Support
Flip	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	G.711a; G.711Mu; G726; AAC
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Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4;IPv6;HTTP;HTTPS;TCP;UDP;ARP;RTP;RTSP;RTCP; RTMP;SMTP;FTP;SFTP;DHCP;DNS;DDNS;QoS;UPnP;NTP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP
Interoperability	ONVIF(Profile S/Profile G); P2P
Streaming Method	Unicast / Multicast
Max. User Access	20 (Total bandwidth: 64M)
Edge Storage	NAS; FTP; SFTP, Micro SD card (Max 256GB)
Web Viewer	IE, Chrome, Firefox, Safari

Interface

Video Interface	N/A
Audio Interface	Built-In Microphone
RS485	N/A
Alarm	N/A

Electrical

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	<8.5W

Environmental

Operating Conditions	-40°F to +140°F (-40°C to +60°C)/ less than 95%
Storage Conditions	-40°F to +140°F (-40°C to +60°C)
Ingress Protection	IP67

Construction

Casing	Metal +Plastic
Dimensions	4.18" × 4.8" (106.2mm×122mm)
Net Weight	1.43 lb (0.65 kg)
Gross Weight	1.82 lb (0.83kg)

Accessories

Dimensions (mm/in)

