IPEG-E40F-IRW2

4MP Eyeball Network Camera





- 4MP 1/3" CMOS image sensor, low luminance, and high definition image.
- H.265 & H.264 dual-stream encoding
- Outputs 4MP (2560 × 1440) @1–25/30 fps
- DWDR, 3D DNR, HLC, BLC
- 2.8 mm fixed lens, Max. IR LEDs Length 98ft
- IP67, PoE, TAA Compliant. Made in South Korea.

System Overview

The IPEG-E40F-IRW2 is a 4MP Eyeball Turret style camera in IC Realtime's cost-effective Edge lineup. The camera comes equipped with high end features including H.265 encoding and Starlight support with DWDR for a more colorful image in daylight as well as low illumination environments and Smart IR support with up to 98ft of illumination.

The H.265 encoding technology provides a more efficient video encoding capacity, and saves bandwidth and storage space compared to H.264. In addition, the camera includes a built-in microphone for audio, and is waterproof and dust-proof by complying to IP67 standards.

Functions

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°F to +140°F (-40°C to +60°C), 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.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Smart H.265+

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.

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 98ft (30m).



Technical Specification

Camera

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Image Sensor	1/3" 4 Megapixel progressive CMOS
Effective Pixels	2560 (H) × 1440 (V)
RAM/ROM	64MB/ 16MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Minimum Illumination	0.03 lux@F2.0 (Color,30 IRE) 0.003 lux@F2.0 (B/W,30 IRE) 0 lux (Illuminator on)
S/N Ratio	>56 dB
IR Distance	98.43 ft (30 m)
IR On/Off Control	Auto / Manual
IR LEDs	1
Lens	
Lens Type	Fixed
Mount Type	M12
Focal Length	2.8mm

Focal Length		2.011111			
Max. Aperture		F2.0			
Angle of View		Horizontal: 90	°, Vertical: 50°		
Optical Zoom		N/A			
Focus Control		Fixed			
Close Focus Distance		3.28 ft (1 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8 mm	223ft	89ft	44ft	22ft

Pan/Tilt/Rotation

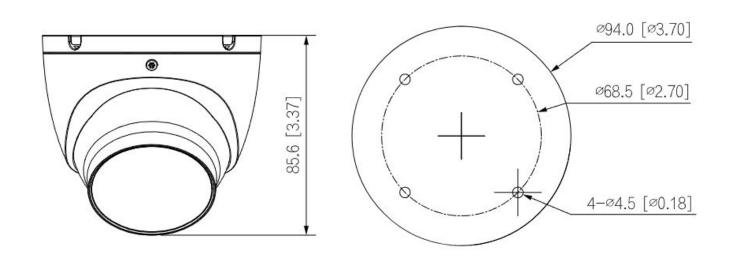
Video

Pan/Tilt/Rotation Range Pan: 0°-360°Tilt: 0°-78°Rotation: 0°-360° Compression H.265; H.264; H.264B; MJPEG (Sub Stream Only)

Streaming Capability	2 Streams
Resolution	4M (2560 \times 1440); 3M (2304 \times 1296); 1080p (1920 \times 1080); 1.3M (1280 \times 960); 720p (1280 \times 720); D1 (704 \times 576/704 \times 480); VGA (640 \times 480); CIF (352 \times 288/ 352 \times 240)
	Main Stream: 2560 × 1440@(1–25/30 fps)
Frame Rate	Sub Stream: 704 × 576@(1–25 fps)/ 704 × 480@(1–30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 kbps–4096 kbps H.265: 12 kbps–4096 kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto / Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)

Smart IR	Support
Starlight	Support
Digital Zoom	16x
Flip	0%180° (0° by default)
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Network	
Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; NTP; Multicast
Interoperability	ONVIF (Profile S/Profile T); CGI; P2P
Cyber Security	Configuration encryption; trusted execution; digest; security logs; HTTPS; trusted upgrade; WSSE; trusted boot; account lockout; generation and importing of X.509 certification; video encryption
Streaming Method	Unicast / Multicast
Max. User Access	6 (Total bandwidth: 24 M)
Edge Storage	FTP
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	SmartICRSS, DSS
Smart Phone	IOS, Android
Certifications	
Certifications Certifications	FCC Part 15, Subpart B
Certifications	FCC Part 15, Subpart B
	FCC Part 15, Subpart B
Certifications Interface	
Certifications Interface Video Interface Audio Interface	N/A
Certifications Interface Video Interface	N/A Built-in mic
Certifications Interface Video Interface Audio Interface RS485 Alarm	N/A Built-in mic N/A
Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical	N/A Built-in mic N/A N/A
Certifications Interface Video Interface Audio Interface RS485 Alarm	N/A Built-in mic N/A
Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical Power Supply	N/A Built-in mic N/A N/A 12 VDC/PoE (802.3af) Basic: 1.6 W (12 VDC); 2.4 W (PoE) Max. (ICR + H.265+IR intensity); 3.6 W (12 VDC); 4.7 W
Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical Power Supply Power Consumption	N/A Built-in mic N/A N/A 12 VDC/PoE (802.3af) Basic: 1.6 W (12 VDC); 2.4 W (PoE) Max. (ICR + H.265+IR intensity); 3.6 W (12 VDC); 4.7 W
Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical Power Supply Power Consumption Environmental	N/A Built-in mic N/A N/A 12 VDC/PoE (802.3af) Basic: 1.6 W (12 VDC); 2.4 W (PoE) Max. (ICR + H.265+IR intensity): 3.6 W (12 VDC); 4.7 W (PoE)
Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions	N/A Built-in mic N/A N/A 12 VDC/PoE (802.3af) Basic: 1.6 W (12 VDC): 2.4 W (PoE) Max. (ICR + H.265+IR intensity): 3.6 W (12 VDC); 4.7 W (PoE) -40°F to +140°F (-40°C to +60°C)/Less than ≤ 95% RH
Certifications Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Storage Conditions	N/A Built-in mic N/A N/A 12 VDC/PoE (802.3af) Basic: 1.6 W (12 VDC); 2.4 W (PoE) Max. (ICR + H.265+IR intensity): 3.6 W (12 VDC); 4.7 W (PoE) -40°F to +140°F (-40°C to +60°C)/less than ≤ 95% RH -40°F to +140°F (-40°C to +60°C)
Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical Power Supply Power Consumption Environmental Operating Conditions Storage Conditions Ingress Protection	N/A Built-in mic N/A N/A 12 VDC/PoE (802.3af) Basic: 1.6 W (12 VDC); 2.4 W (PoE) Max. (ICR + H.265+IR intensity): 3.6 W (12 VDC); 4.7 W (PoE) -40°F to +140°F (-40°C to +60°C)/less than ≤ 95% RH -40°F to +140°F (-40°C to +60°C)
Certifications Certifications Interface Video Interface Audio Interface RS485 Alarm Electrical Power Supply Power Consumption Coperating Conditions Ingress Protection Construction	N/A Built-in mic N/A N/A 12 VDC/PoE (802.3af) Basic: 1.6 W (12 VDC); 2.4 W (PoE) Max. (ICR + H.265+IR intensity): 3.6 W (12 VDC); 4.7 W (PoE) -40°F to +140°F (-40°C to +60°C)/Less than ≤ 95% RH -40°F to +140°F (-40°C to +60°C) IP67
Certifications Certifications Interface Interface Audio Interface RS485 Alarm Electrical Power Supply Power Consumption Coperating Conditions Storage Conditions Ingress Protection Construction Casing	N/A Built-in mic N/A N/A 12 VDC/PoE (802.3af) Basic: 1.6 W (12 VDC); 2.4 W (PoE) Max. (ICR + H.265+IR intensity): 3.6 W (12 VDC); 4.7 W (PoE) -40°F to +140°F (-40°C to +60°C)/less than ≤ 95% RH -40°F to +140°F (-40°C to +60°C) IP67 Metal + Plastic

Dimensions (mm/in)



Accessories

MNT-ADAPT-SM + MNT-CEILING-30

MNT-IPMINIDOME-WALL-2

