

IPEG-E80F-IRW1

8MP Eyeball Network Camera



- 8MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- H.265 & H.264 dual-stream encoding
- Outputs max. 8MP (3840 × 2160) @15 fps
- DWDR, Day/Night(ICR), 3DNR, HLC, BLC
- Smart IR, Max. IR LEDs Length 98 ft
- Built-in Mic, IP67, PoE
- Made in South Korea and conforms to the Trade Agreements Act (TAA)

System Overview

IC Realtime's Edge camera lineup now arrives in 4K resolution with the IPEG-E80F-IRW1! This eyeball turret camera outputs 8 Megapixels (4K) @ 15fps. The camera is also equipped with DWDR, HLC and BLC to ensure a quality image, no matter the environment as well as Smart IR Illumination up to 98 feet. This PoE supported camera is housed in an IP67, weatherproof housing and is ONVIF compliant, making it a great choice to update existing systems to 4K resolution.

The IPEG-E80F-IRW1 makes a perfect pairing with our Edge NVR, for a cost effective, hassle-free 4K Surveillance system setup for residential homes, small stores and businesses.

Functions

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).

Protection (IP67, wide voltage)

Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times. Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with unstable voltage.

Environmental

With a temperature range of -40°F to $+131^{\circ}\text{F}$ (-40°C to $+55^{\circ}\text{C}$), 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. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.

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.

Interoperability

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

Technical Specification

Camera

Image Sensor	1/2.7" CMOS
Effective Pixels	3840 (H) × 2160 (V)
RAM/ROM	256MB/ 16MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Minimum Illumination	0.04 Lux@F2.0 (Color, 30 IRE) 0.004 Lux@F2.0 (B/W, 30 IRE) 0 Lux (Illuminator on)
S/N Ratio	> 56 dB
IR Distance	98.4 ft (30 m)
IR On/Off Control	Auto / Manual
IR LEDs	1

Lens

Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm			
Max. Aperture		F1.4			
Angle of View		Horizontal:105°; vertical: 56°			
Iris Type		Fixed aperture			
Close Focus Distance		3.28 ft (1.0 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	245 ft	140 ft	48 ft	24 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.264H; H.264B; MJPEG (sub stream only)
Smart Codec	Smart H.265+; Smart H.264+
Streaming Capability	2 Streams
Resolution	3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048); 3072 × 1728 (3072 × 1728); 2592 × 1944 (2592 × 1944); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 × 1296 (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: 3840 × 2160 (1 fps–15 fps) 2688 × 1520 (1 fps–25/30 fps)
	Sub stream: 704 × 576 (1 fps–25 fps) 704 × 480 (1 fps–30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 3 Kbps–8192 Kbps H.265: 3 Kbps–8192 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 NR

Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Smart IR	Support
Digital Zoom	16x
Flip	0°/90°/180°/270° (supports 90°/270° with 2688×1520 resolution and lower)
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	G.711a; G.711Mu; G.726; PCM
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Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
Cyber Security	Video encryption; configuration encryption; Digest; WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P
Streaming Method	Unicast / Multicast
Max. User Access	6 (Total bandwidth: 48 M)
Edge Storage	FTP, Local PC for instant recording
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	IC Now
Smart Phone	IOS, Android

Certifications

Certifications	FCC Part 15, Subpart B
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Interface

Video Interface	N/A
Audio Interface	Built-in Mic
Alarm	N/A

Electrical

Power Supply	DC12V, PoE (802.3af)
Power Consumption	Basic: 2.3 W (12V DC); 3.1 W (PoE) Max. (ICR + H.265 + max. resolution + Main Stream + DWDR + IR on): 4.6 W (12V DC); 5.6 W (PoE)

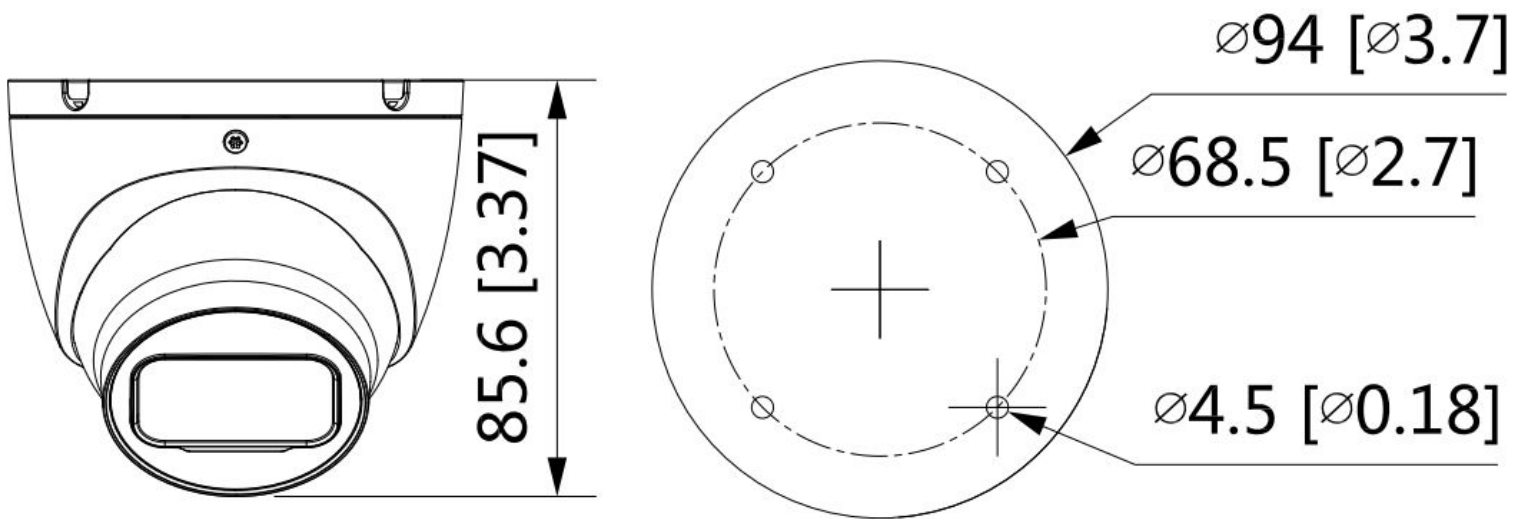
Environmental

Operating Conditions	–40 °F to 131 °F (–40 °C to +55 °C)/Less than 95% RH
Storage Conditions	–40 °F to 131 °F (–40 °C to +55 °C)
Ingress Protection	IP67

Construction

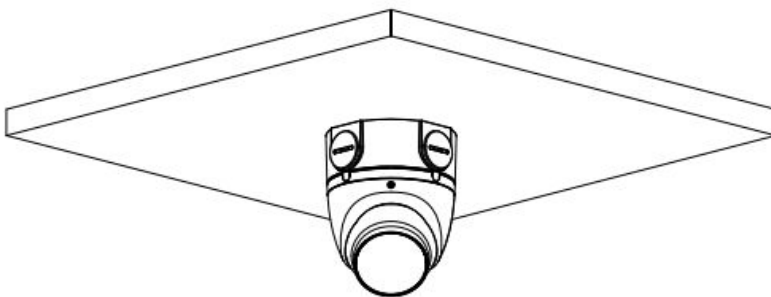
Casing	Metal
Dimensions	3.4" × Φ3.7" (85.6 mm × Φ94.0 mm)
Net Weight	0.71 lb (0.32 kg)
Gross Weight	0.95 lb (0.43 kg)

Dimensions (mm/in)



Accessories

MNT-JUNCTIONBOX-1



MNT-IPMINIDOME-WALL-2

