

IPEG-E40F-DIW1

4MP Dual-Illumination Eyeball Network Camera



- 1/2.9" CMOS image sensor, low illuminance, high image definition
- 4MP (2688 × 1520) @ 30 fps
- IVS, Intelligent Motion Detect, Perimeter Protection
- 2.8mm fixed lens, Built-In Microphone
- Smart Dual Illumination- IR and Warm light LEDs, up to 98ft of full color illumination
- 256GB Micro SD memory, 120dB WDR, IP67, PoE

System Overview

IC Realtime brings dual illumination to the Edge lineup with the IPEG-E40F-DIW1. This Turret eyeball camera features a 2.8mm lens on top of an 1/2.9" low illuminance, high image definition CMOS image sensor. Equipped with Smart dual illumination, it provides a discreet night mode with IR or full color images with its warm light LED technology, reaching more than 98ft max distance.

The camera also comes with AI features such as Intelligent Motion Detect (iMD) and Perimeter Protection technology, which filters moving objects as vehicle or person on motion detect or when setting up virtual tripwire and intrusion zones. This helps reduce false alarms and streamline the playback search functionality when used with IC Realtime AI NVRs.

Functions

iMD (Intelligent Motion Detect)

This is an upgraded version of motion detection currently known as Intelligent Motion Detection (iMD). The upgraded Plus version greatly improves alarm accuracy by pre-loading a deep learning algorithm that recognizes people and vehicles. Motion detection alerts containing a human and/or vehicle intrusion event are now possible with up to 95% accuracy. Eliminate false alarms, save time and keep stress levels low knowing you're protected.

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.

Perimeter Protection

IC Realtime's Perimeter Protection features significantly improve detection accuracy. The benefits of Perimeter Protection include up to a 90% reduction in false alarms. Other advantages include a decrease in pixel count requirement for object detection, which translates into more efficiency with less strain on the system. Perimeter Protection options let you customize tripwires based on the object type and allow intelligent automation within a limited area of access such as pedestrian or vehicle-only zones. The combination of advanced AI analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

Camera Technical Specification

Image Sensor	1/2.9" CMOS
Effective Pixels	2688 (H) × 1520 (V) (4 Megapixels)
RAM/ROM	128MB/ 128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Minimum Illumination	0.006 lux@F1.6 (Color, 30 IRE) 0.0006 lux@F1.6 (B/W, 30 IRE) 0 lux (Illuminator on)
Illumination Distance	Up to 98.43 ft (30 m (IR)); Up to 98.43 ft (30 m) (Warm light)
LED On/Off Control	Auto / Manual/ Smart Dual Illumination
IR LEDs	1 IR; 1 Full Color,Warm Light LED

Lens

Lens Type		Fixed-focal			
Mount Type		M12			
Focal Length		2.8 mm			
Max. Aperture		F1.6			
Iris Type		Fixed			
Angle of View		Horizontal: 95°; Vertical: 52°			
Close Focus Distance		2.95 ft (0.9 m)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	208 ft	83 ft	41 ft	21 ft

Pan/Tilt/Rotation

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

Compression	H.264H; H.265; H.264; H.264B; MJPEG (Only supported by the sub stream)
Smart Codec	Smart H.265+; Smart H.264+
Streaming Capability	2 Streams
Resolution	4M (2688 × 1520/2560 × 1440); 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@(1–20 fps)/ 2560 × 1440@(1–25/30 fps) Sub Stream: 704 × 576@(1–25 fps)/ 704 × 480@(1–30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Day/Night	Auto(ICR)/Color/B/W
BLC Mode	BLC / HLC / WDR (120 dB)
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto / Manual
Noise Reduction	3D DNR
Region of Interest	Off / On (4 Zone)
Flip	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution and lower)
Mirror	Off / On
Privacy Masking	8 areas

Intelligence

Basic IVS	Tripwire; Intrusion
Perimeter Protection	Tripwire; Intrusion(These functions support the classification and detection of vehicle and human objects)
Intelligent Motion Detect	Supported
AI Search	Works together with the NVR08-V1 and other AI enabled IC Realtime NVRs to perform refined intelligent search, event extraction and merging to event videos

Audio

Compression	G.711a; G.711Mu; PCM; G.726
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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; NTP; Multicast; ICMP; IGMP; P2P
Interoperability	ONVIF(Profile S/ Profile G/ Profile T);CGI;P2P
Cyber Security	Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Generation and importing of X.509 certification
Streaming Method	Unicast / Multicast
Max. User Access	6 (Total bandwidth: 36 M)
Edge Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
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

Audio Interface	Built-In Mic
RS485	N/A
Alarm	N/A

Electrical

Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.1 W (12 VDC); 2.5 W (PoE) Max. (H.265 + intelligence on + WDR + warm light): 4.4 W (12 VDC); 5.2 W (PoE)

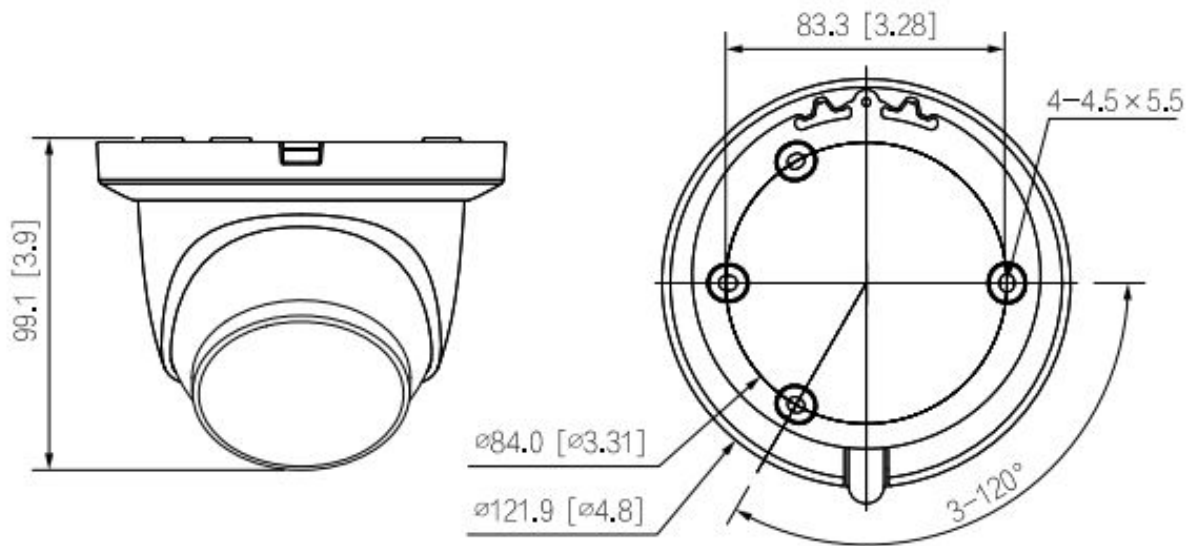
Environmental

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

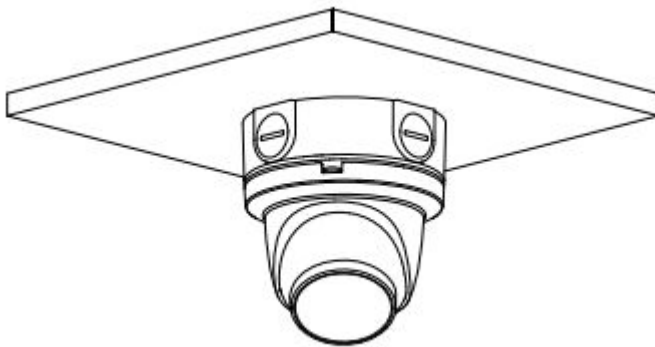
Casing	Metal Inner core and Cover, Plastic decoration ring
Dimensions	3.90" × Φ4.80" (99.1 mm × Φ121.9 mm)
Net Weight	1.01 lb (0.46 kg)
Gross Weight	1.43 lb (0.65 kg)

Camera Dimensions (mm/in)



Mount Accessories

MNT-JUNCTIONBOX-1



MNT-IPMINIDOME-WALL-4

