

# IPEG-D40F-IRW1

4MP Starlight Vandal-Proof Dome Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- H.265&H.264 dual-stream encoding
- Outputs 4MP (2560 × 1440)@30 fps, 4MP (2688 × 1520) @ 20 fps
- 2.8 mm fixed lens, WDR, 3D DNR, HLC, BLC
- Starlight support, Max. IR LEDs Length 98ft
- 256GB Micro SD memory, IP67, IK10, PoE
- Made In South Korea And Conforms To The Trade Agreements Act (TAA)

## System Overview

New from the Edge series of IC Realtime cameras is the IPEG-D40F-IRW1. The camera is capable of 4MP@ 30FPS and comes packed with high end features, including 120dB WDR and Starlight support for a more colorful image in low illumination environments and backed with 98ft of IR distance.

The H.265 encoding technology provides a more efficient video encoding capacity, saves bandwidth and storage space compared to H.264. In addition, it supports 256GB SD card storage and is waterproof, dust-proof and tamper-proof by complying to IP67 and IK10 standards.

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## Functions

### 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 (0.009 lux).

### Wide Dynamic Range(WDR)

Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

### 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.

### Environmental

With a temperature range of -40°C to +60°C (-40°F to +140°F), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 55 kg (120 lbs) of force. 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.

### 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	1/3" 4 Megapixel progressive CMOS
Effective Pixels	2688 (H) × 1520 (V)
RAM/ROM	128MB /128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100000 s
Minimum Illumination	0.008 Lux @ F1.6
S/N Ratio	More than 50dB
IR Distance	Distance up to 98.43 ft (30 m)
IR On/Off Control	Auto / Manual
IR LEDs	3

### Lens

Lens Type	Fixed				
Mount Type	M12				
Focal Length	2.8mm				
Max. Aperture	F1.6				
Angle of View	Horizontal: 102.0°, Vertical: 55.0°				
Optical Zoom	N/A				
Focus Control	Fixed				
Close Focus Distance	2.95 ft (0.9 m)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	183ft	73ft	36ft	19ft

### Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0°-355°Tilt: 0°-65°Rotation: 0°-355°
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### Video

Compression	H.265; H.264; H.264B; MJPEG
Streaming Capability	2 Streams
Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 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: 4MP 2688 × 1520 (1 fps-20 fps) 4MP 2560 × 1440 (1 fps-25/30 fps) Sub Stream: D1 704 × 576 (1 fps-25fps) D1 704 × 480 (1 fps-30fps)
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 (120dB)
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°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

### Audio

Compression	N/A
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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; Bonjour
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Streaming Method	Unicast / Multicast
Max. User Access	20
Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	SmartICRSS, DSS
Smart Phone	IOS, Android

### Certifications

Certifications	FCC Part 15, Subpart B UL/CUL: UL60950-1
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### Interface

Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A

### Electrical

Power Supply	DC12V, PoE (802.3af)
Power Consumption	<5.2W

### Environmental

Operating Conditions	-40°F to +140°F (-40°C to +60°C)/less than ≤ 95% RH
Storage Conditions	-40°F to +140°F (-40°C to +60°C)
Ingress Protection	IP67
Vandal Resistance	IK10

### Construction

Casing	Metal
Dimensions	3.19" × 4.33" (81 mm × 109.9 mm)
Net Weight	0.77 lb (0.350 kg)
Gross Weight	1.08 lb (0.481 kg)

Accessories

Dimensions (mm/in)

