

# IPEL-DL80F-IRW1

2x4MP Multi-Sensor Network IR Dome Camera



- Two 1/2.7" 4 Megapixel progressive scan CMOS
- H.265 & H.264 triple-stream encoding
- 4 MP (2560 × 1440)@25/30 fps
- 2.8mm fixed lens
- IVS, Perimeter Protection, Intelligent Motion Detect, Line crossing and Face Detection support
- Starlight Support, Max IR LEDs Length 98ft
- Micro SD memory, IP67, IK10, PoE

## System Overview

The IPEL-DL80F-IRW1 is a multi-sensor camera that provides added flexibility for capturing vast areas. Utilizing its dual independent 4MP adjustable lenses, this Elite line camera can replace multiple single-sensor cameras, allowing a higher return on investment. This camera features Starlight, 120dB WDR and 98 feet of IR support to create a crystal-clear image even in the most challenging lighting conditions.

The camera features a suite of Intelligent functions, including: IVS Support with Tripwire, Intrusion, Abandoned/ Missing Object, Perimeter Protection, Intelligent Motion Detect, People Counting and Face Detect. It also includes a built-in mic, 256GB mSD support as well as IP67 and IK10 protection.

## 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.

### Starlight Technology

Featured with Starlight Technology, the camera is ideal for applications with challenging light 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 nearly complete darkness.

### 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

### Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

### Wide Dynamic Range

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 clear video.

### Protection

With a temperature range of -22 °F to +140 °F (-30 °C to +60 °C), the camera is designed for extreme temperature environments. The camera complies to an IK10 impact rating making it capable of withstanding the equivalent of 5kg (11.02lbs) of force. 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	Two 1/2.7" CMOS
Effective Pixels	2560 (H) × 1440 (V)
RAM/ROM	1GB/ 128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Minimum Illumination	0.005 Lux@F1.6 (Color,30 IRE) 0.0005 Lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on)
IR Distance	Distance up to 98.43 ft (30m)
IR On/Off Control	Auto / Manual
IR LEDs	16

### Lens

Lens Type	Fixed			
Mount Type	Board-in			
Focal Length	2.8mm			
Max. Aperture	F1.6			
Angle of View	Horizontal: 95°; Vertical: 52° (per lens)			
Optical Zoom	N/A			
Focus Control	Fixed			
Close Focus Distance	3.61 ft (1.1m)			
DORI Distance	Detect	Observe	Recognize	Identify
	208 ft	83 ft	41 ft	21 ft

### Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan: 0°–175°, Tilt: 0°–65°, Rotation: 0°–360°
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### Intelligence

IVS	Tripwire, Intrusion, Abandoned object; missing object
Perimeter Protection	Intrusion, tripwire, fast moving (vehicle and human detection)
Intelligent Motion Detect	Supported
Advanced Intelligent Functions	Face Detection, People Counting

### Video

Compression	H.265; H.264; H.264H; H.264B; MJPEG (Sub stream only)
AI Coding	AI H.265; AI H.264
Streaming Capability	3 Streams
Resolution	4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M(1280×960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)
Frame Rate	Main stream: 2560 × 1440 @ (1–25/30 fps)
	Sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)
	Third stream: 1920 × 1080 @ (1–25/30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 kbps–8192 kbps H.265: 32 kbps–8192 kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / 120dB WDR
White Balance	Auto/ Natural/ Street Lamp/ Outdoor/Manual
Gain Control	Auto / Manual

Noise Reduction	3D DNR
Motion Detection	Off / On (4 Zone, Rectangle)
Region of Interest	Off / On (4 Zone)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	N/A
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

### Audio

Compression	PCM; G.711a; G.711Mu; G.726; G.723
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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; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	20 (Total bandwidth: 64 M)
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: FCC Part 15 Subpart B
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### Interface

Video Interface	N/A
Audio Interface	Built-in Mic, 1 Audio In, 1 Out (RCA)
Alarm	2 channels in: 5mA 3V–5 VDC
	2 channels out: 300mA 12 VDC

### Electrical

Power Supply	12 VDC/ PoE
Power Consumption	Basic: 3.1 W (12 VDC); 4 W (PoE) Max. (H.265 + IR on + Intelligence WDR): 6.6 W (12 VDC); 8 W (PoE)

### Environmental

Operating Conditions	–40 °F to 140 °F (–40 °C to +60 °C)
Storage Conditions	–40 °F to 140 °F (–40 °C to +60 °C)
Ingress Protection	IP67
Vandal Resistance	IK10

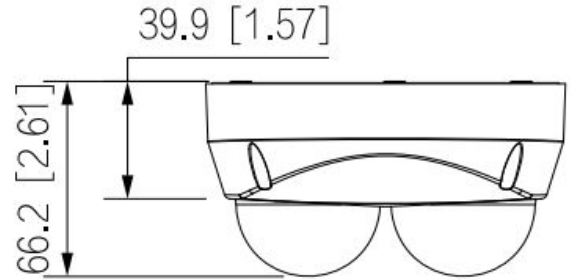
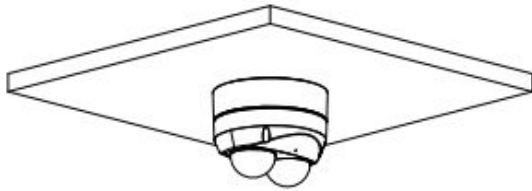
### Construction

Casing	Metal
Dimensions	2.61" × 4.80" (66.2 mm × 122.0 mm)
Net Weight	1.15lb (0.52kg)
Gross Weight	1.48lb (0.67kg)

Accessories

Dimensions (mm/in)

### MNT-JUNCTIONBOX-7



### MNT-IPMINIDOME-WALL

