

# IPEL-M40F-IRW1

2x2MP Multi-Sensor Network IR Dome Camera



- Two 1/2.8" 2 Megapixel progressive scan STARVIS™ CMOS
- H.265&H.264 dual-stream encoding
- Max 30ps@2M (1920×1080)
- 2.8mm fixed lens
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- IVS Support, Face Detection
- Starlight Support, Max IR LEDs Length 66ft
- Micro SD memory, IP67, IK10, PoE

## System Overview

The IPEL-M40F-IRW1 is a multi-sensor camera that provides added flexibility for capturing wide areas. With two 2MP adjustable lenses this camera can provide a flexible choice of angle. The camera can replace multiple single-sensor cameras, providing a higher return on investment.

The multi-sensor camera features Starlight, contrast, backlight compensation, white balance, and resolution control to create a crystal-clear image even in the most challenging lighting conditions. The camera features IVS Support with Tripwire, Intrusion, Object Abandoned/Missing and Face Detect. It also includes a built-in mic and IP67 and IK10 protection.

## Functions

### 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.

### 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.

### 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 -30 °C to +60 °C (-22 °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 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 1/2.8" 2 Megapixel progressive scan CMOS
Effective Pixels	1920(H)x1080(V)
RAM/ROM	512MB/256MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s
Minimum Illumination	0.009Lux/F2.0( Color,1/3s,30IRE) 0.07Lux/2.0( Color,1/30s,30IRE) 0Lux/F2.0(IR on)
S/N Ratio	More than 50dB
IR Distance	Distance up to 66ft (20m)
IR On/Off Control	Auto / Manual
IR LEDs	10x2

### Lens

Lens Type	Fixed			
Mount Type	Board-in			
Focal Length	2.8mm			
Max. Aperture	F2.0			
Angle of View	H: 110°, V:60° (per lens)			
Optical Zoom	N/A			
Focus Control	Fixed			
Close Focus Distance	N/A			
DORI Distance	Detect	Observe	Recognize	Identify
	134 ft	52 ft	26 ft	13 ft

### Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:±90°; Tilt:0°~65°; Rotation:0°~360°
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### Intelligence

IVS	Tripwire, Intrusion, Object Abandoned/Missing
Advanced Intelligent Functions	Face Detection

### Video

Compression	H.265/H.264H/MJPEG(Sub Stream)
Streaming Capability	2 Streams
Resolution	1080P(1920x1080)/1.3M(1280x960)/ 720P(1280x720)/D1(704x576/704x480)/ VGA(640x480)/CIF(352x288/352x240)
Frame Rate	Main Stream: CH1: 1080P (1~25/30fps) CH2: 1080P (1~25/30fps)  Sub Stream: CH1: D1(1~25/30fps) CH2: D1(1~25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32~1024Kbps H.265: 12~7168Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR/ SSA
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
Digital Zoom	16x
Flip	N/A
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

### Audio

Compression	G.711a/G.711Mu/AAC/ G.726
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### Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP;HTTPS;TCP;ARP;RTSP;RTP;UDP;RTCP;SMTP; FTP;DHCP;DNS;DDNS;PPPOE;IPv4/v6;QoS;UPnP; NTP;Bonjour;IEEE802.1x; Multicast; ICMP;IGMP;SNMP;TLS
Interoperability	ONVIF Profile S&G, API
Streaming Method	Unicast / Multicast
Max. User Access	10 Users /20 Users
Edge Storage	NAS Local PC for instant recording Micro SD card 128GB
Web Viewer	IE, Chrome, Firefox, Safari
Management Software	SmartICRSS, DSS
Smart Phone	IOS, Android

### Certifications

Certifications	CE (EN 60950:2000) UL:UL60950-1 FCC: FCC Part 15 Subpart B E-mark(ECE-Regulation No.10) EN50155(Environment)
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### Interface

Video Interface	N/A
Audio Interface	Built-in Mic
RS485	N/A
Alarm	N/A

### Electrical

Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	DC 12V: 4.32W 6.02W(IR on) PoE: 4.32W 6.02W(IR on)

### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Ingress Protection	IP67
Vandal Resistance	IK10

### Construction

Casing	Metal
Dimensions	4.79"×2.57"(122mm×65.4mm)
Net Weight	1.11lb(0.505kg)
Gross Weight	1.17lb(0.53kg))

Accessories

Dimensions (mm/in)

