## **IPEL-D40V-W1-LED**

#### 4MP Full-Color LED AI Varifocal Dome Network Camera





- 4MP 1/1.8" CMOS image sensor, low illuminance, high image definition
- H.265 & H.264 triple-stream encoding
- 2.7-12mm Varifocal lens, 4MP (2688 × 1520)@30 fps
- IVS, Intelligent Motion Detect, Perimeter Protection
- WDR(140dB), 3D DNR, HLC, BLC
- Built-in Mic and Speakers, 1 input/1 output Alarm & Audio
- Warm light LEDs, up to 131ft of full color Illumination
- 256GB Micro SD Support, IP67, IK10, PoE, ePOE support

## System Overview

IC Realtime's IPEL-D40V-W1-LED lets you experience full color video from day to night! This IK10- rated vandal proof dome camera is equipped with a high-performance sensor and large aperture lens enabling clear, colorful image in ultra low illuminance environments. This camera provides 30FPS@ 4MP (2688  $\times$  1520) with H.265 support and features a 1/2.7" low illuminance, high image definition CMOS image sensor on top of a 2.7-12mm motorized varifocal lens. With up to 131 feet of full color illumination and 140dB WDR, the camera provides a colorful, vibrant image under the most demanding lighting conditions.

The camera also comes with 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.

### **Functions**

#### Smart (H.265+ & H.264+)

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**

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 (0.0005 lux).

#### **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 Al analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

#### **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.

#### 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.

#### 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.





## Technical Specification

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Camera		1/1.8" CMOS				
Image Sensor  Effective Pixels		2688 (H) ×1520 (V)				
RAM/ROM		512MB / 128MB				
		Progressive				
Scanning System  Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Minimum Illumination		0.0005Lux@F1.0				
S/N Ratio		> 56 dB				
Illumination Distance		Distance up to 131.2 ft (40m)				
LED On/Off Control		Auto / Manual				
Full color LEDs		3 (Warm White)				
Lens Type		Motorized vari-focal				
		φ16				
Mount Type		2.7 mm-12 mm				
Focal Length		F1.0				
Max. Aperture		Horizontal: 115°–48°				
Angle of View		Vertical: 59°–27°				
Close Focus Distance		5.7 ft (1.75 m)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify	
	2.8mm	198 ft	79 ft	39 ft	19 ft	
	12mm	421 ft	168 ft	84 ft	42 ft	
Pan/Tilt/Rotation						
Pan/Tilt/Rotation Range		Pan:0°~360°; Tilt:0°~90°; Rotation:0°~360°				
Intelligence						
IVS		Abandoned/ Missing object, Loitering Detection, Parking Detection, Crowd Gathering Estimation				
Advanced IVS		Face Detection, People Counting				
Perimeter Protection		Tripwire; Intrusion, fast moving (Recognition of human and vehicle)				
Intelligent Motion Detect (iMD)		Motion detection alarm for human and vehicle. Filters misinformation such as leaves and light.				
Intelligent Search		Works together with AI-enabled NVRs to perform refined intelligent search, event extraction and merging to event videos				
Video						
Compression		H.265; H.264; H.264H; H.264B; MJPEG (sub stream only)				
Streaming Capability		3 Streams				
Resolution		4M (2688 × 1520); 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(1–25/30 fps)				
		Sub Stream: D1 (1 fps-25/30 fps)				
		Third Stream: 1080p (1 fps-25/30 fps)				
Bit Rate Control		CBR/VBR				
Bit Rate		H.264: 3 kbps-20480 kbps H.265: 3 kbps-20480 kbps				

Color/B/W

BLC / HLC / WDR (140dB)

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			
Flip	0%90%180%270°			
Mirror	Off / On			
Privacy Masking	8 areas			
Audio				
Compression	PCM; G.711a; G.711Mu; G.726; G.723			
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;N TP;Multicast;ICMP;IGMP;NFS;PPPoE;802.1x;SNMP			
Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI;P2P			
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			
Streaming Method	Unicast / Multicast			
Max. User Access	20 (Total bandwidth: 80 M)			
Edge Storage	FTP; SFTP; Micro SD card (256 GB); NAS			
Web Viewer	IE, Chrome, Firefox, Safari			
Management Software	SmartICRSS, DSS			
Smart Phone	IOS, Android			
Certifications				
Certifications	FCC Part 15, Subpart B			
Interface				
Audio Interface	Built-In MIc and Speaker, 1 Audio In/ Out (RCA ports)			
RS485	N/A			
Alarm	1 channel in: 5mA 3V–5V DC			
Atami	1 channel out: 300mA 12V DC			
Electrical				
Power Supply	12V DC (±30%)/PoE (802.3af)/ePoE			
Power Consumption	Basic: 2.3 W (12 VDC); 3.3 W (PoE) Max. (H.265 + 3 streams + intelligence + LED): 7.4 W (12 VDC); 9.0 W (PoE)			
Environmental				
Operating Conditions	$-22^{\circ}\text{F}$ to $+140^{\circ}\text{F}$ (–30°C to +60°C )/less than 95%			
Storage Conditions	-40°F to +140°F (-40°C to +60°C)			
Ingress Protection	IP67			
Vandal Resistance	IK10			
Construction				
Casing	Metal			
Dimensions	4.1" × 5.0" (105 mm × 126 mm)			
Net Weight	1.6 lb (716 g )			
Gross Weight	2 lb (929 g)			



Day/Night

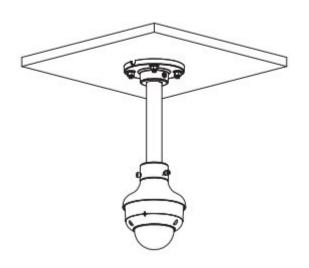
BLC Mode



## Accessories

## Dimensions (mm/in)

# MNT-CEILING-30



# Ø126.0 [Ø4.96] 3-Ø4.5 [Ø0.18] Ø110.0 [Ø4.33]

# MNT-JUNCTIONBOX-7

