

# IPEG-D40V-IRW3

4MP Varifocal IR Dome Network Camera



- 4-MP 1/2.9" CMOS image sensor
- H.265+ & H.265 dual-stream encoding
- 4MP (2560 × 1440) @25/30 fps
- 120dB WDR, 3DNR, AWB, AGC, BLC
- 2.7 mm–13.5 mm varifocal lens
- Intelligent Motion Detect, Perimeter Protection
- Max IR LEDs Length 131 ft
- IP67, IK10, PoE, Micro SD card slot up to 256GB

## System Overview

The IPEG-D40V-IRW3 is a 4MP mid-sized dome indoor/outdoor camera with a 2.8mm ~ 13.5mm varifocal lens. The camera itself supports H.265 compression and True Day/Night viewing at up to 131 feet with 0 light. It supports up to 256GB of Micro SD memory and is IP67 weather rated, IK10 impact proof as well as PoE.

Furthermore, these IPEG models are now equipped with vehicle human detection with Intelligent Motion Detect (iMD) and Perimeter Protection technology. You can filter 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+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

### Protection (IP67, IK10, wide voltage)

The camera allows for  $\pm 30\%$  input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67) and impact tests (IK10), the camera is the choice for installation in even the most unforgiving 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.

### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

### Smart IR Technology

With IR illumination, detailed images can be captured in low light or total darkness. The camera's Smart IR technology adjusts the intensity of camera's infrared LEDs to compensate the distance of an object. Smart IR technology prevents IR LEDs from whitening out images as they come closer to the camera. The camera's integrated infrared illumination provides high performance in extreme low-light environments up to 40 m (131.0 ft).

### 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.

## Technical Specification

### Camera

Image Sensor	1/2.9" CMOS
Effective Pixels	2688 (H) × 1520 (V) (4 Megapixels)
ROM/ RAM	128MB/ 128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Minimum Illumination	0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)
IR Distance	131.0 ft (40 m)
IR On/Off Control	Auto / Manual
IR LEDs	2

### Lens

Lens Type	Motorized vari-focal			
Mount Type	ø14			
Focal Length	2.7 mm–13.5 mm			
Max. Aperture	F1.5			
Angle of View	Horizontal: 104°–29°, Vertical: 54°–16°			
Focus Control	Fixed			
Close Focus Distance	0.8 m (2.6 ft)			
DORI Distance	Detect	Observe	Recognize	Identify
	209 ft	83 ft	41 ft	20 ft
	688 ft	275 ft	137 ft	68 ft

### Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°
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### Video

Compression	H.265; H.264; H.264H; H.264B; MJPEG (sub stream only)
Smart Codec	Smart H.265+, Smart H.264+
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@(1–20 fps)/2560 × 1440@ (1–25/30 fps) Sub Stream: 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 (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	Supported
Defog	N/A

Flip	0°/90°/180°/0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution.)
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

### 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 AI-enabled IC Realtime NVRs to perform refined intelligent search, event extraction and merging to event videos

### Audio

Compression	G.711a; G.711Mu; G.726; PCM
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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
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, IC Now Pro
Smart Phone	IOS, Android

### Certifications

Certifications	FCC Part 15, Subpart B
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### Interface

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

### Electrical

Power Supply	DC12V, PoE (802.3af)(Class 0)
Power Consumption	Basic: 2.3 W (12 VDC); 3.2 W (PoE) Max. (H.265+intelligence on +WDR +IR on): 6.4 W (12 VDC); 7.6 W (PoE)

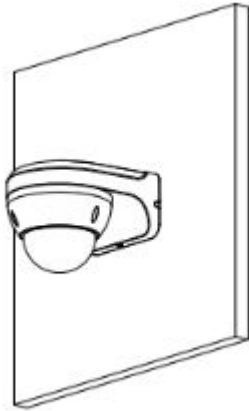
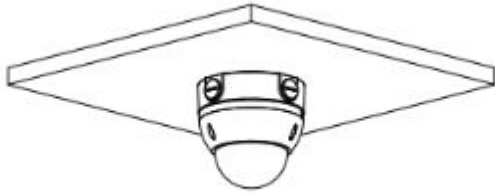
### Environmental

Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	IP67
Vandal Resistance	IK10

### Construction

Casing	Metal
Dimensions	3.68" × Φ4.80" (93.4 mm × Φ122 mm)
Net Weight	1.08 lb (0.49 kg)
Gross Weight	1.46 lb (0.66 kg)

## Accessories



## Dimensions (mm/in)

