

IPEG-D40V-IRW2

4MP IR Dome Network Camera



- 4MP, 1/3" CMOS image sensor
- H.265+ & H.265 dual-stream encoding
- 4MP (2560 × 1440) @25/30 fps
- 120dB WDR, 3DNR, AWB, AGC, BLC
- Micro SD card slot, up to 256GB
- 2.8~12mm varifocal lens
- Max IR LEDs Length 131 ft
- IP67, IK10, PoE

System Overview

The IPEG-D40V-IRW2 is a 4MP mid-sized dome Day/Night camera with a 2.8mm ~ 12mm 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.

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

Environmental

Cameras operate in extreme temperature environments, rated for use in temperatures from -40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$) with 95% humidity.

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 | 1/3" 4 Megapixel progressive CMOS |
| Effective Pixels | 2688 (H) × 1520 (V) |
| ROM/ RAM | 128MB/ 128MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s~1/100000 s |
| Minimum Illumination | 0.03 Lux @ F1.7 |
| IR Distance | 40 m (131.0 ft) |
| IR On/Off Control | Auto / Manual |
| IR LEDs | 2 |

Lens

| | | | | |
|----------------------|--|---------|-----------|----------|
| Lens Type | Motorized | | | |
| Mount Type | φ14 | | | |
| Focal Length | 2.8mm~12mm | | | |
| Max. Aperture | F1.7 | | | |
| Angle of View | Horizontal: 98°~31°; Vertical: 55°~18° | | | |
| Focus Control | Fixed | | | |
| Close Focus Distance | 0.8 m (2.6 ft) | | | |
| DORI Distance | Detect | Observe | Recognize | Identify |
| | 183ft | 73ft | 36ft | 18ft |
| | 656ft | 262ft | 131ft | 65ft |

Pan/Tilt/Rotation

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|-------------------------|---|
| Pan/Tilt/Rotation Range | Pan:0° ~355°;Tilt:0° ~75°;Rotation:0° ~355° |
|-------------------------|---|

Video

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|----------------------|--|
| 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) 2560 × 1440 (1 fps~25/30 fps) Sub Stream: 704 × 576 (1 fps~20/25 fps) 704 × 480 (1 fps~20/30 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 |
| 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 |
| 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) |

Audio

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|-------------|-----|
| Compression | N/A |
|-------------|-----|

Network

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|---------------------|--|
| Ethernet | RJ-45 (10/100Base-T) |
| Protocol | HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP |
| Interoperability | ONVIF (Profile S/Profile G); CGI; P2P |
| Max. User Access | 20 |
| Edge Storage | FTP; Micro SD card (support max. 256 GB) |
| Web Viewer | IE, Chrome, Firefox, Safari |
| Management Software | SmartICRSS, DSS |
| Smart Phone | IOS, Android |

Certifications

| | |
|----------------|---|
| Certifications | CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B |
|----------------|---|

Interface

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

Electrical

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|-------------------|-------------------------------|
| Power Supply | DC12V, PoE (802.3af)(Class 0) |
| Power Consumption | Max 6.4W |

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 | 88.9 mm × 122 mm (3.5" × 4.8") |
| Net Weight | 0.45 kg (1.0 lb) |
| Gross Weight | 0.64 kg (1.4 lb) |

Accessories

Dimensions (mm/in)

