

IPFX-D40V-IRW2

4MP Starlight Dome Network Camera



- 1/ 2.7" 4Megapixel progressive CMOS
- H.265 & H.264 triple-stream encoding
- Outputs max. 4MP (2688 × 1520)@30 fps
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Perimeter Protection, Intelligent Motion Detect
- 2.7~13.5mm varifocal lens
- Starlight Support, Max IR LEDs Length 131ft
- Micro SD support up to 256GB, IP67, IK10, PoE

System Overview

The IPFX-D40V-IRW2 is a 4MP dome camera featuring our latest generation of 1/ 2.7" CMOS sensors. It adopts our IK10 vandal proof dome style housing, and features Starlight supported IR illumination up to ~131'. The camera also includes H.265 encoding for optimized storage and enhanced IVS with Perimeter protection and Intelligent Motion Detect which helps filter human and vehicle target objects.

The camera also features a motorized, 2.7mm-13.5mm lens which offers up a 28-104 degree horizontal field of view. The zoom level is fully controllable directly from the camera interface, enabling you to obtain the perfect shot. This makes the camera well suited for exterior applications on commercial as well as residential installations.

Made in South Korea and conforms to the Trade Agreements Act (TAA).

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

Wide dynamic range (WDR)

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, true WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

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

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark 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.

Protection (IP67, IK10, wide voltage)

The camera allows for $\pm 25\%$ input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 2KV 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 complies with an IK10 impact rating making it capable of withstanding the equivalent of 5 kg (11.02 lbs) of force dropped from a height of 40 cm (15.75 in.)

Technical Specification

Camera

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|--------------------------|------------------------------------|
| Image Sensor | 1/2.7"4 Megapixel progressive CMOS |
| Effective Pixels | 2688(H) x1520(V) |
| RAM/ROM | 512MB/128MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s~1/100000 s |
| Minimum Illumination | 0.005 Lux@F1.5 |
| IR Distance | Distance up to 40 m (131.23 ft) |
| IR On/Off Control | Auto / Manual |
| IR LEDs | 2 |

Lens

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|----------------------|--|---------|---------|-----------|----------|
| Lens Type | Motorized vari-focal | | | | |
| Mount Type | φ14 | | | | |
| Focal Length | 2.7mm~13.5mm | | | | |
| Max. Aperture | F1.5 | | | | |
| Angle of View | Pan: 104°~27° Tilt: 55°~15° Diagonal: 124°~31° | | | | |
| Optical Zoom | 5x | | | | |
| Close Focus Distance | 0.8 m~0.8 m (2.62 ft~2.62 ft) | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | W | 210 ft | 84 ft | 42 ft | 21 ft |
| | T | 728f ft | 291 ft | 145 ft | 72 ft |

Pan/Tilt/Rotation

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

Intelligence

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|---------------------------------|---|
| General IVS | Tripwire; Intrusion |
| Perimeter Protection | Tripwire, Intrusion (Recognition of vehicle and people), fast moving, loitering detection, parking detection and people gathering |
| Intelligent Motion Detect (iMD) | Motion detection alarm for human and vehicle. Filters misinformation such as leaves and light. |

Video

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|----------------------|---|
| Compression | H.265; H.264; H.264H; H.264B; MJPEG |
| 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 (704 × 576@1~25/30 fps) Third Stream (1280 × 720@1~25/30 fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.264: 3 Kbps~8192 Kbps H.265: 3 Kbps~8192 Kbps |
| Day/Night | Auto(ICR) / Color / B/W |
| BLC Mode | BLC / HLC / 120dB WDR |
| White Balance | Auto/natural/street lamp/outdoor/manual/regional custom |
| Gain Control | Auto / Manual |
| Noise Reduction | 3D DNR |

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|--------------------|--|
| Motion Detection | Off / On (4 Zone, Rectangle) |
| Region of Interest | Off / On (4 Zone) |
| Smart IR | Support |
| Starlight | Support |
| Flip | 0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.) |
| Mirror | Off / On |
| Privacy Masking | Off / On (4 Area, Rectangle) |

Audio

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|-------------|----------------------------|
| Compression | G.711a; G.711Mu; G726; AAC |
|-------------|----------------------------|

Network

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|---------------------|---|
| 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;NTP;Multicast;CMP;IGMP;NFS;PPPoE;802.1x;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/Profile G);CGI, Milestone |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 10 Users /20 Users |
| Edge Storage | NAS Local PC for instant recording Micro SD card 256GB |
| Web Viewer | IE, Chrome, Firefox, Safari |
| Management Software | SmartICRSS, DSS |
| Smart Phone | IOS, Android |

Certifications

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|----------------|--|
| Certifications | CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07 |
|----------------|--|

Interface

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|-----------|-----------------------------|
| Audio In | 1 channel (RCA port) |
| Audio Out | 1 channel (RCA port) |
| Alarm In | 1 channel in: 5mA 3V~5V DC |
| Alarm Out | 1 channel out: 300mA 12V DC |

Electrical

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|-------------------|-------------------------------|
| Power Supply | DC12V, PoE (802.3af)(Class 0) |
| Power Consumption | <8.5W |

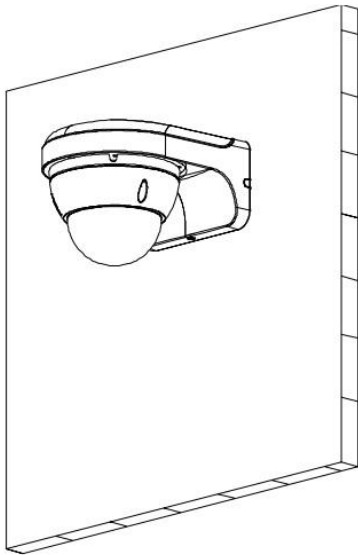
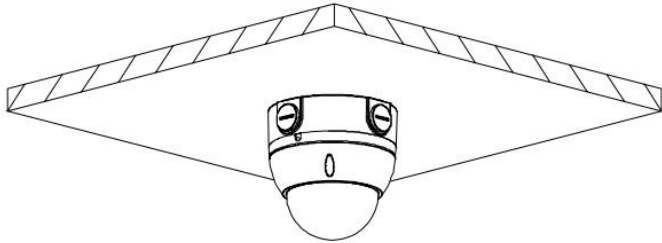
Environmental

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

Construction

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|--------------|---------------------------|
| Casing | Metal |
| Dimensions | 122mm×88.9mm(4.80"×3.50") |
| Net Weight | 492 g (1.1 lb) |
| Gross Weight | 663 g (1.5 lb) |

Accessories



Dimensions (mm/in)

