

IPFX-D80V-IRW1

8MP WDR IR Dome Network Camera



- 1/2.5" 8 Megapixel progressive scan STARVIS™ CMOS
- H.265 & H.264 triple-stream encoding
- 15fps@4K(3840×2160), 25/30fps@3M(2304×1296)
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC
- Micro SD card slot, up to 128GB
- 2.7mm ~12mm motorized lens
- Max IR LEDs Length 164ft
- IP67, IK10, ePOE Support

System Overview

Bigger is better, at least with image sensors!

The IPFX-D80V-IRW1 is a 8MP dome camera featuring our latest generation of 1/2.5" CMOS sensors. It adopts our vandal proof dome style housing, and supports IR illumination up to ~164' and also supports extended PoE (ePOE).

Due to the larger image sensor, this camera supports a large dynamic range (120dB), and is a true WDR camera. On top of the image sensor sits a motorized, 2.7mm-12mm lens which offers up a 40-110 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.

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

Protection (IP67, IK10, wide voltage)

The camera allows for ±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.)

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 50m (164ft).

Intelligent Video Analysis (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 Tripwire analytics, allowing the camera to detect when a predetermined line has been crossed, ideal for business intelligence, workforce optimization, and actionable intelligence.

ePOE Technology

ePOE technology adopts advanced 2D-PAM3 coding modulation from the physical layer and realizes full duplex transmission over 800 meters at the speed of 10Mbps, or 300 meters at the speed of 100Mbps via Cat 5 or coaxial cable media. It supports PoE and PoC power supply technology, which has greatly simplified construction and wiring. ePOE technology offer a new way to accomplish long distance transmission between IP cameras and network switches. It allows for a more flexible surveillance system design, improves reliability, and saves on construction and wiring costs.

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.

Technical Specification

Camera

| | |
|--------------------------|--|
| Image Sensor | 1/2.5" 8 Megapixel progressive scan STARVIS™ CMOS |
| Effective Pixels | 3840(H)x2160(V) |
| RAM/ROM | 512MB/32MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s~1/100000 s |
| Minimum Illumination | 0.05Lux/F1.4 (Color,1/3s,30IRE) 0.2Lux/F1.4 (Color,1/30s,30IRE) 0Lux/F1.4(IR on) |
| IR Distance | Distance up to 50m (164ft) |
| IR On/Off Control | Auto / Manual |
| IR LEDs | 2 |

Lens

| | | | | | |
|----------------------|--------------------------|--------|---------|-----------|----------|
| Lens Type | Motorized/ Auto Iris(DC) | | | | |
| Mount Type | Board-in | | | | |
| Focal Length | 2.7mm~12mm | | | | |
| Max. Aperture | F1.4 | | | | |
| Angle of View | H:110°~40° , V:58°~23° | | | | |
| Optical Zoom | 4x | | | | |
| Close Focus Distance | 0.3m | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | W | 280 ft | 112 ft | 56 ft | 28 ft |
| | T | 748 ft | 299 ft | 151 ft | 75 ft |

Pan/Tilt/Rotation

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

Smart Event

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|-------------|--|
| General IVS | Tripwire, Intrusion, Abandoned/Missing, Face Detection |
|-------------|--|

Video

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|----------------------|---|
| Compression | H.265+/H.265/H.264+/H.264 |
| Streaming Capability | 3 Streams |
| Resolution | 4K(3840×2160)/ 6M(3072×2048)/5M(3072×1728)/ 5M(2592×1944)/ 4M(2688×1520)/ 3M(2048×1536)/ 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: 4K(1~15fps)/3M(1~25/30fps) Sub Stream: D1(1~25/30fps) Third Stream: 720P(1~25/30fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.264: 24K ~ 10240Kbps H.265: 14K ~ 9984Kbps |
| Day/Night | Auto(ICR) / Color / B/W |
| BLC Mode | BLC / HLC / WDR |
| 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 |
| Digital Zoom | 16x |
| Flip | 0°/90°/180°/270° (90°/270° only supported at 4MP or less) |
| Mirror | Off / On |
| Privacy Masking | Off / On (4 Area, Rectangle) |

Audio

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|-------------|-----------------------------|
| Compression | G.711a/ G.711Mu/ AAC/ G.726 |
|-------------|-----------------------------|

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; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour |
| Interoperability | ONVIF, PSIA, CGI |
| 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 |
|----------------|--|

Interface

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|-----------------|--|
| Video Interface | N/A |
| Audio Interface | 1/1 channel In/Out |
| RS485 | N/A |
| Alarm | 1 channel In: 5mA 5VDC 1 channel Out: 300mA 12VDC |

Electrical

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

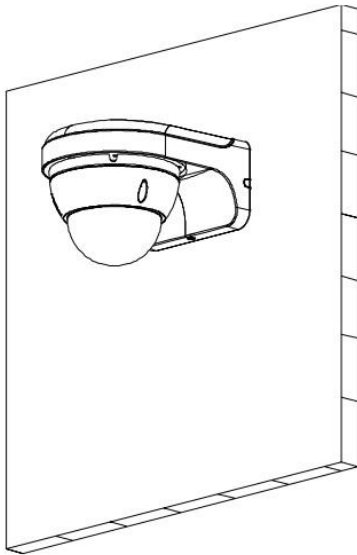
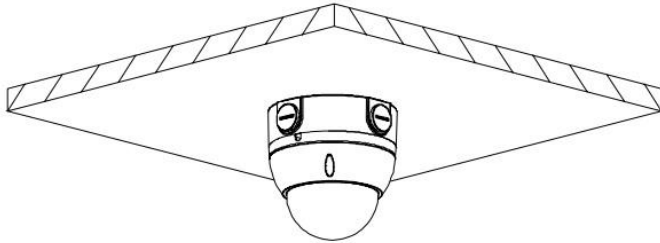
Environmental

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|----------------------|---|
| Operating Conditions | -30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH |
| Storage Conditions | -30° C ~ +60° C (-22° 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 | 0.5kg (1.1lb) |
| Gross Weight | 0.58kg (1.29lb) |

Accessories



Dimensions (mm/in)

