IPFX-D80V-IRW3

8MP Starlight Vandal-Proof Dome Network Camera





System Overview

Representing the 4K line in the Flex series of cameras, the IPFX-D80V-IRW3 boasts an impressive 8MP, 1/2.8" low illuminance, high image definition CMOS image sensor supporting up to 4K (3840×2160) @30 fps. This vandal-proof dome camera excels in low light environments with Starlight support and a max IR distance of 131 feet. It is also housed in a tough, vandal proof IK10- rated and weatherproofed with IP67 protection.

The camera supports a suite of AI features including Intelligent Motion Detect (iMD) and Perimeter Protection. This technology utilizes a deep learning algorithm that recognizes people and vehicles, which drastically reduces false positives, enabling a more optimized search function. Other supported functions include E-PTZ, Face Detection and People Counting.

Functions

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 (0.0008 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 AI analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

- 8MP 1/1.8" CMOS image sensor, low illuminance, high image definition
- H.265 & H.264 quad-steam encoding
- Outputs max. 8MP (3840 × 2160) @25/30 fps
- Intelligent Motion Detect, Perimeter Protection, Face Detect, People Counting
- WDR(120dB), Day/Night(ICR), 3DNR,AWB,AGC,BLC,
- Starlight support, Max. IR LEDs Length 131 ft
- 512GB Micro SD memory, IP67, IK10, ePoE

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 (IP67, wide voltage)

Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper provides users with clear visibility at all times.Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with unstable voltage.

Smart H.265+

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.

Technical Specification

Camera

| Image Sensor | 1/1.8" CMOS |
|--------------------------|--------------------------------------------------------------------------------------------|
| Effective Pixels | 3840 (H) × 2160 (V) |
| RAM/ROM | 2GB/4GB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100000 s |
| Minimum Illumination | 0.0008 lux@F1.8 (Color, 30 IRE) 0.0004 lux@F1.8 (B/W, 30 IRE) 0 lux (Illuminator on) |
| S/N Ratio | > 56 dB |
| IR Distance | 131 ft (40 m) |
| IR On/Off Control | Auto; Zoomprio; Manual |
| IR LEDs | 4 |
| Lens | |

Motorized vari-focal Lens Type Mount Type φ14 2.7 mm-12 mm Focal Length F1.5 Max. Aperture H: 113°-47°; V: 60°-26° Angle of View Fixed Iris Type 2.6 ft (0.8 m) Close Focus Distance Detect Observe Recognize Identify Lens 273 ft W 109 ft 54 ft 27 ft DORI Distance Т 622 ft 248 ft 124 ft 62 ft

Horizontal: 0°-360°; vertical: 0°-90°; rotation: 0°-360°

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range

| Compression | H.265; H.264; H.264H; H.264B; MJPEG (sub stream only) |
|--------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Smart Codec | Smart H.265+; Smart H.264+ |
| AI Coding | AI H.265; AI H.264 |
| Streaming Capability | 4 Streams |
| Resolution | 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 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: 3840 × 2160@(1–25/30 fps) |
| | Sub stream: D1@(1-25/30 fps) |
| | Third stream: 1080p@(1-25/30 fps) |
| | Fourth stream: 720p@(1–10 fps) |
| Bit Rate Control | CBR/VBR |
| Bit Rate | H.264: 32 kbps–16384 kbps H.265: 12 kbps–13568 kbps |
| AI Scene Self-adaptation | Supported |
| 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 |
| Starlight | Support |
| Digital Zoom | 16x |
| Flip | 0%90%180%270° (Supports 90%270° with (2688 × 1520 resolution.) |
| Mirror | Off / On |
| Privacy Masking | Off / On (4 Area, Rectangle) |
| Audio | |
| Compression | G.711a; G.711Mu; PCM; G.726; G.723 |
| Network | |
| Ethernet | RJ-45 (10/100Base-T) |
| Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP; P2P |
| Cyber Security | Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification |
| Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI |
| Streaming Method | Unicast / Multicast |
| Max. User Access | 20 (Total bandwidth: 80 M) |
| Edge Storage | FTP; SFTP; Micro SD card (support max. 512 GB); NAS |
| Web Viewer | IE, Chrome, Firefox, Safari |
| Management Software | SmartICRSS, DSS |
| Smart Phone | IOS, Android |
| Certifications | |
| Certifications | FCC Part 15, Subpart B |
| Interface | |
| Video Interface | N/A |
| Audio Interface | 1 Input/ 1 Output (RCA) |
| Audio Interface | Input: 1 channel in: 5mA 3V-5V DC |
| Alarm | Output: 1 channel out: 300mA 12V DC |
| Electrical | |
| Power Supply | 12 VDC/PoE (802.3af) |
| ePoE | Supported |
| Power Consumption | Basic: 4.1 W (12 VDC); 4.9 W (24 VAC); 5.9 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 10.0 W (12VDC); 11.7 W (24 VAC); 12.2 W (PoE) |
| Environmental | |
| Operating Conditions | –22°F to +140°F (–30°C to +60°C)/Less than 95% RH |
| Storage Conditions | -40°F to +140°F (-40°C to +60°C) |
| Ingress Protection | IP67 |
| Vandal Resistance | IK10 |
| Construction | |
| Casing | Metal + plastic |
| J | 6.26" × Φ4.65" |
| Dimensions | (273.2 mm × 95.0 mm × 95.0 mm) |
| Net Weight | 2.01 lb (0.91kg) |
| Gross Weight | 2.69 lb (1.22kg) |



Capabilities

AI Functions IVS Basic IVS Tripwire; Intrusion Advanced IVS Heat Map, Smart Sound Detection Smart Object Detection Smart abandoned object; smart missing object **Perimeter Protection** Tripwire; Intrusion (These functions support the classification and detection of Capabilities vehicle and human objects) Intelligent Motion Detect Advanced secondary filtering for human and motor vehicle , reducing false alarms caused by leaves, rain and lighting condition change. Capabilities E-PTZ Capabilities Supports Electronic zoom and tracking AI Search Works together with AI enabled NVRs to perform refined

videos

intelligent search, event extraction and merging to event

| Face Detection | |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capabilities | Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face or one-inch photo; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting |
| People Counting | |
| Capabilities | Tripwire: people counting and people counting in area, generating and exporting report (day/month/year); queue management, generating and exporting report (day/month); 4 rules can be set for tripwire, people counting in area and queue management |
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Accessories

Included Mount

MNT-JUNCTIONBOX-8





