

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
- Micro SD card slot, up to 256GB
- 2.7~13.5mm varifocal lens
- Starlight Support, Max IR LEDs Length 131ft
- 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 IVS support with Tripwire and Intrusion.

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.

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.

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.

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

Image Sensor	1/2.7"4Megapixel 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

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

Pan/Tilt/Rotation Range	Pan:0° ~355° ;Tilt:0° ~75° ;Rotation:0° ~355°
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Smart Event

General IVS	Tripwire; Intrusion
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Video

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

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

Compression	G.711a; G.711Mu; G726; AAC
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Network

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
Interoperability	ONVIF(Profile S/Profile G);CGI;P2P;Milestone;Genetec
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

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
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Interface

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

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

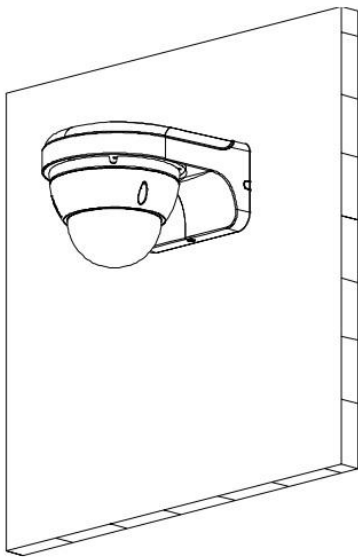
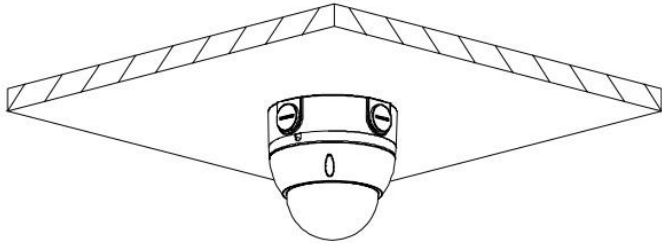
Environmental

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

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)

