

IPFX-B40V-IRW2

4MP Starlight Bullet Network Camera



- 1/3" 4 Megapixel progressive CMOS
- H.265 & H.264 dual-stream encoding
- Outputs max. 4MP (2688 × 1520)@30 fps
- WDR(120dB), Day/Night(ICR), 3DNR, AWB,
- Intelligent Motion Detect, Perimeter Protection
- Micro SD card slot, up to 256GB
- 2.7~13.5mm varifocal lens
- Starlight Support, max IR distance: 197ft
- IP67, PoE

System Overview

The IPFX-B40V-IRW2 is a 4MP bullet camera featuring our latest generation of 1/3" CMOS sensors and Starlight support with increased IR illumination up to ~197'. Housed in a weatherproof IP67 rated casing, the camera also includes H.265 encoding for optimized storage and AI functions such as Intelligent Motion Detect and Perimeter Protection support with Tripwire and Intrusion.

The camera also features a motorized, 2.7mm-13.5mm lens which offers up a 27-104 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.

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.

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, 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.

Technical Specification

Camera

Image Sensor	1/3" 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 60 m (197 ft)
IR On/Off Control	Auto / Manual
IR LEDs	4

Lens

Lens Type	Motorized vari-focal				
Mount Type	φ14				
Focal Length	2.7mm~13.5mm				
Max. Aperture	F1.5				
Iris Type	Fixed				
Angle of View	Horizontal: 104°~27°, Vertical: 55°~15°				
Close Focus Distance	0.8 m(2.6 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	210ft	84 ft	42 ft	21 ft
	T	728ft	291 ft	145 ft	72 ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Horizontal: 0°~360° Vertical: 0°~90° Rotation: 0°~360°
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Intelligence

Perimeter Protection	Tripwire; Intrusion (Supports recognition of human and vehicles)
Intelligent Motion Detect	Supported

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 fps/704 × 480@1-30 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
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
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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;ICMP;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;P2P;Milestone;
Streaming Method	Unicast / Multicast
Max. User Access	20 (Total bandwidth: 64 M)
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 BUL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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Interface

Video Interface	N/A
Audio Interface	1 (RCA port) each output/ input
RS485	N/A
Alarm	1 channel In: 5mA 5VDC, 1 channel Out: 300mA 12VDC

Electrical

Power Supply	DC12V, PoE (802.3af)
Power Consumption	<9.8W

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)
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	244.1 mm × 90.4 mm (9.61" × 3.26")
Net Weight	820 g (1.8lb)
Gross Weight	1090 g (2.4lb)

Accessories

Dimensions (mm/in)

