

IPVFX-B40V-IRW1

4MP Starlight IR Bullet Network Camera



- 1/3" 4 Megapixel progressive CMOS
- H.265 & H.264 dual-stream encoding
- 4MP (2560 × 1440)@25/30 fps, max.
- WDR(120dB), 3DNR, AWB, AGC, BLC
- 2.7~13.5mm varifocal lens
- Built-in IR LED, max IR distance 196ft
- Micro SD up to 256GB, IP67, 12V DC or PoE

System Overview

IC Realtime's IPVFX-B40V-IRW1 is a 4MP bullet camera featuring our latest generation of 1/3" CMOS Starlight sensors. It also has increased IR illumination up to ~196' and features a motorized, 2.7mm-13.5mm lens which offers up a 27-104 degree horizontal field of view. The camera is also ONVIF compliant, making it suitable for most third party NVRs and VMS.

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.

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.

Environmental

With a temperature range of -40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

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	0.005Lux@F1.5
IR Distance	Distance up to 196ft (60m)
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				
Angle of View	Horizontal: 104°~27°Vertical: 55°~15°				
Iris Control	Fixed				
Close Focus Distance	2.62 ft (0.8 m)				
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°
-------------------------	--

Video

Compression	H.265; H.264; H.264B; MJPEG
Streaming Capability	2 Streams
Resolution	4M (2688 × 1520); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 96); 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@1-25/704×480@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 / WDR (120dB)

Certifications

Certifications	FCC: FCC Part 15 Subpart B
----------------	----------------------------

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
Flip	0°/90°/180°/270° (Supported 90°/270° with 1080p resolution.)
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)
Audio	
Compression	G.711a; G.711Mu; G.726; AAC

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
Interoperability	ONVIF (Profile S/Profile G)
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

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	Basic power consumption: 2.9W (12V DC); 3.9W (POE) Max. power consumption (H.265 + WDR + max. stream + intelligent function enabled+ IR on): 8.2W (12V DC); 9.8W (POE)

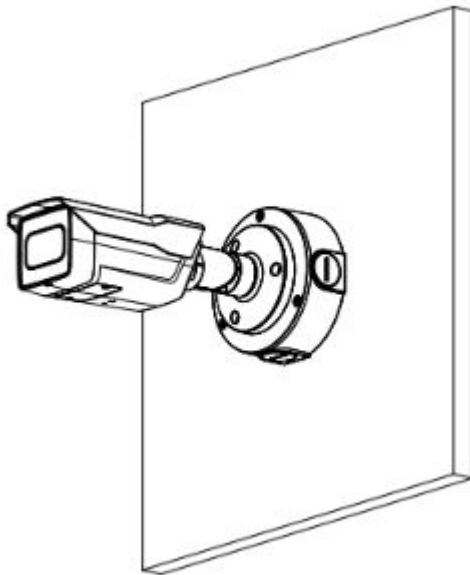
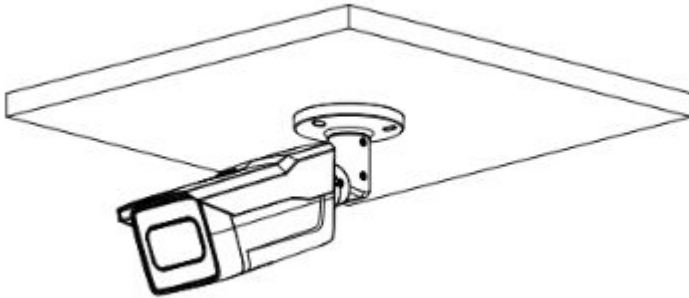
Environmental

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

Construction

Casing	Metal
Dimensions	11.4" × 3.73" × 3.41" (290.6 mm × 94.7mm × 86.5 mm)
Net Weight	2.09 lbs (0.95 kg)
Gross Weight	2.68lbs (1.22kg)

Accessories



Dimensions (mm/in)

