IPEG-B40V-IRW2
4MP IR Varifocal Bullet Network Camera

ICREALTIME

- 1/3" 4 Megapixel progressive CMOS
- H.265+ & H.265 dual-stream encoding
- 4MP (2560 × 1440) @25/30 fps, and supports max. 4MP (2688 × 1520) @20 fps
- WDR (120dB), 3DNR, AWB, AGC, BLC
- Micro SD card slot, up to 256B
- 2.8~12mm varifocal lens
- Max IR LEDs length 164ft
- 256GB Micro SD Support, IP67, PoE

System Overview

The IPEG-B40V-IRW2 is a 4MP bullet camera featuring our latest generation of 1/3'' CMOS sensors with H.265 support. It adopts our vandal proof bullet style housing, and supports IR illumination up to ~164'.

The camera also features a motorized, 2.8mm-12mm lens which offers up a 31-98 degree horizontal field of view and 4x optical zoom. 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 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 60m (197ft).

Protection (IP67, wide voltage)
The camera allows for ±30% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning. Subjected and certified to rigorous dust and immersion tests (IP67), the camera is the choice for installation in even the most unforgiving environments

Environmental
Cameras operate in extreme temperature environments, rated for use in temperatures from -40° C to +60° C (-40° F to +140° F) with 95% humidity.

Interoperability
The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Smart H.265+
Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

Wide Dynamic Range(WDR)
Embedded with industry leading wide dynamic range (WDR) technology, vivid pictures are achieved even in the most intense contrast lighting conditions. For applications with both bright and low lighting conditions that change quickly, True WDR (120dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Technical Specification

Camera

Image Sensor	1/3" 4 Megapixel progressive CMOS
Effective Pixels	2688 (H) ×1520 (V)
RAM/ROM	128MB/128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3~1/100000s
Minimum Illumination	0.03 Lux @ F1.7
S/N Ratio	More than 50dB
IR Distance	50 m (164.0 ft)
IR On/Off Control	Auto / Manual
IR LEDs	2

Lens

Lens Type	Motorized vari-focal
Mount Type	φ14
Focal Length	2.8mm~12mm
Max. Aperture	F1.7
Angle of View	Horizontal: 98°–31,°Vertical: 55°–18°
Focus Control	Fixed
Close Focus Distance	0.8 m (2.6 ft)

	Detect	Observe	Recognize	Identify
DORI Distance	183ft	73ft	36ft	18ft
	656ft	262ft	131ft	65ft

Pan/Tilt/Rotation

Pan/Tilt/Rotation Range	Pan:0° ~360° ;Tilt:0° ~90° ;Rotation:0° ~360°

Video

Compression	H.265; H.264; H.264B; MJPEG
Streaming Capability	2 Streams
Resolution	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (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: 4M 2688 × 1520 (1 fps–20 fps) 2560 × 1440 (1 fps–25/30 fps)
	Sub Stream: D1 704 × 576 (1 fps–20/25 fps) 704 × 480 (1 fps–20/30 fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / WDR (120 dB)
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual
Gain Control	Auto / Manual
Noise Reduction	3D DNR
Motion Detection	Off/ On (4 areas, rectangular)
Region of Interest	Off / On (4 Zone)

Electronic Image Stabilization (EIS)	N/A
Smart IR	Support
Defog	N/A
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	N/A

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone;
Streaming Method	Unicast / Multicast
Max. User Access	20
Edge Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
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

Interface

Video Interface	N/A
Audio Interface	N/A
RS485	N/A
Alarm	N/A

Electrical

Power Supply	12V DC/POE (802.3af)
Power Consumption	< 7.4W

Environmental

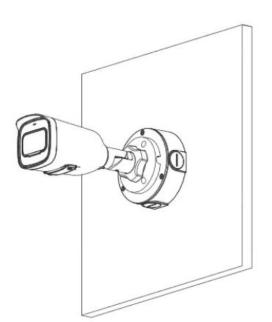|	
Operating Conditions	-30° C ~ +60° C (-22° F ~ +140° F) / Less than 95% RH
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	244.1 mm × 90.4 mm (9.6" × 3.6")
Net Weight	0.85 kg (1.9 lb)
Gross Weight	1.10 kg (2.4 lb)

Accessories

Dimensions (mm/in)

90.4 [3.56]

79.0 [3.11]

75.9 [2.99]

90.4 [3.56]

244.1 [9.61]

153.1 [6.03]

133.5 [5.26]

∅90.4 [∅3.56]

∅70.0 [∅2.76]

3-∅4.7 [∅0.19]