

IPEG-B20V-IRW2

2MP IR Bullet Network Camera



- 1/2.7" 2 Megapixel progressive CMOS
- H.265+ & H.265 dual-stream encoding 25/30fps@1080P(1920x1080)
- WDR, 3DNR, AWB, AGC, BLC
- Micro SD card slot, up to 256GB
- 2.8~12mm varifocal lens
- Max IR LEDs Length 164 feet
- 256GB Micro SD support, IP67, PoE

System Overview

A favorite powered zoom bullet camera, now available in the EDGE lineup - the IPEG-B20V-IRW2.

The IPEG-B20V-IRW2 is a 2MP Day/Night with a 2.8mm ~ 12mm varifocal lens. The camera itself supports dual H.265/H.264 compression and True Day/Night viewing at up to 164 feet. It supports up to 256GB of Micro SD memory and is IP67 weather rated as well as PoE.

Functions

Protection (IP67, wide voltage)

The camera allows for $\pm 30\%$ 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

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.

Environmental

Cameras operate in extreme temperature environments, rated for use in temperatures from -40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$) 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 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 50 m (164.0 ft).

Technical Specification

Camera

Image Sensor	1/2.7" 2 Megapixel progressive CMOS
Effective Pixels	1920(H)x1080(V)
ROM/ RAM	16MB/ 64MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual, 1/3(4)~1/100000s
Min. Illumination	0.008 Lux @ F1.7
IR Distance	Distance up to 50m (164ft)
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: 106°~33°, Vertical: 56°~19°			
Focus Control	Fixed			
Close Focus Distance	0.8 m (2.6 ft)			
DORI Distance	Detect	Observe	Recognize	Identify
	144ft	57ft	28ft	14ft
	502ft	200ft	100ft	50ft

Pan/Tilt/Rotation

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

Compression	H.265; H.264; H.264H; H.264B; MJPEG
Streaming Capability	2 Streams
Resolution	1080P(1920x1080)/1.3M(1280x960)/720P(1280x720) /D1(704x576/704x480)/CIF(352x288/352x240)
Frame Rate	Main Stream: 1920 × 1080 (1 fps~25/30 fps)
	Sub Stream: D1/CIF(1 ~ 25/30fps)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 Kbps~6144 Kbps H.265: 12 Kbps~7424 Kbps
Day/Night	Auto(ICR) / Color / B/W
BLC Mode	BLC / HLC / DWDR
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)
Electronic Image Stabilization (EIS)	N/A
Smart IR	Support

Defog	N/A
Flip	0°/90°/180°/270°
Mirror	Off / On
Privacy Masking	Off / On (4 Area, Rectangle)

Audio

Compression	N/A
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Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; SMTP; FTP; DHCP; DNS; NTP; Multicast
Interoperability	ONVIF (Profile S); CGI; P2P
Streaming Method	Unicast / Multicast
Max. User Access	6
Edge Storage	FTP; Micro SD card (support max. 256 GB)
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
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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	< 6.2W

Environmental

Operating Conditions	-30°C to +60°C (-22°F to +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	0.86 kg (1.9 lb)
Gross Weight	1.12 kg (2.5 lb)

Accessories

Dimensions (mm/in)

