IPEL-B80F-IRW2

8MP Starlight Bullet Network Camera





- 8MP, 1/2.8" CMOS image sensor, low illuminance, high image definition
- H.265 & H.264 triple-steam encoding
- Outputs max. 8MP (3840 × 2160) @20 fps (Al function enabled by default) and supports 8MP (3840 × 2160) @25/30 fps when Al function is disabled
- Intelligent Motion Detect and Perimeter Protection
- WDR(120dB), Day/Night(ICR), 3DNR, AWB, AGC, BLC,
- Starlight support, Max. IR LEDs Length 98 ft
- 256GB Micro SD memory, Built-in Mic, IP67, PoE

System Overview

Capture your surveillance footage in stunning 4K resolution with IC Realtime's Elite line of 4K cameras!. New in the Elite lineup, the IPEL-B80F-IRW2 boasts an impressive 8MP, 1/2.8" low illuminance, high image definition CMOS image sensor supporting up to 4K (3840 \times 2160) @30 fps. The camera excels in low light environments with Starlight support and a max IR distance of 98 feet. It is also features a built-in microphone and is IP67 rated for outdoor use as well as 256GB Micro SD storage support.

This camera is also equipped with a suite of Al features including Intelligent Motion Detect (iMD) and Perimeter Protection. This technology utilizes a deep learning algorithm that recognizes people and vehicles, which drastically reduces false positives, enabling a more optimized search function.

Functions

Starlight Technology

Featuring Starlight Technology, this camera is ideal for applications with challenging lighting conditions. Its low-light performance delivers usable video with minimal ambient light. Even in extreme low-light conditions, Starlight Technology is capable of delivering color images in near complete darkness (0.007 lux).

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 Al analytics and real-time alerts maximizes efficiency & balance of the total systems capacity and resources resulting in greater surveillance system efficiency.

iMD (Intelligent motion Detect)

This is an upgraded version of motion detection currently known as Intelligent Motion Detection (iMD). The upgraded Plus version greatly improves alarm accuracy by pre-loading a deep learning algorithm that recognizes people and vehicles. Motion detection alerts containing a human and/or vehicle intrusion event are now possible with up to 95% accuracy. Eliminate false alarms, save time and keep stress levels low knowing you're protected.

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.

Smart H.265+

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.





Technical Specification

Camera					
Image Sensor		1/2.8"8 Megapixel progressive CMOS			
Effective Pixels		3840 (H) × 2160 (V)			
RAM/ROM		512MB/128MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100000 s			
Minimum Illumination		0.007 Lux @F1.5			
S/N Ratio		> 56 dB			
IR Distance		30 m (98.4 ft)			
IR On/Off Control		Auto / Manual			
IR LEDs		1			
Lens					
Lens Type		Fixed-focal			
Mount Type					
Focal Length		2.7 mm-13.5 mm			
Max. Aperture		F1.5			
Angle of View		Horizontal 108°, Vertical 58°			
Iris Type		Fixed aperture			
Focus Control		Fixed			
Close Focus Distance		1.4 m (4.6 ft)			
	Lens	Detect Observe Recognize Identify			
DORI Distance	2.8mm	280 ft	112 ft	56 ft	28 ft
Pan/Tilt/Rotation					
Pan/Tilt/Rotation Range		Horizontal: 0°–360°; vertical: 0°–90°; rotation: 0°–360°			
Intelligence					
intenigence		Tripwire; intrusion (support the classification and			
Perimeter Protection		accurate detection of vehicle and human)			
Intelligent Search		Works together with Al-enabled NVR to perform refine intelligent search, event extraction and merging to event videos			
Video					
Compression		H.265; H.264; H.264H; H.264B; MJPEG (sub stream only)			
Streaming Capability		3 Streams			
Resolution		8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3M (2048 × 1536/2304 × 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: $3840 \times 2160 \ @(1-20 \ \text{fps} \ \text{by default})$ $3840 \times 2160 \ @(1-25/30 \ \text{fps} \ \text{when Al function disabled})$			
		Sub stream: 704 × 576 @(1–25 fps)/ 704 × 480 @ (1–30 fps)			
		Third Stream: 1920 × 1080 @(1–25/30 fps)			
Bit Rate Control		CBR/VBR			
Bit Rate Control		CBR/VBR			
Bit Rate Control Bit Rate		CBR/VBR H.264: 3 Kbp: H.265: 3 Kbp:			
		H.264: 3 Kbp:	s-8192 Kbps		

Auto/Natural/Street Lamp/Outdoor/Manual

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		
Digital Zoom	16x		
Flip	0%90%180%270° (Supports 90%270° with 1920 × 1080 resolution.)		
Mirror	Off / On		
Privacy Masking	Off / On (4 Area, Rectangle)		
	3 ,		
Audio	G.711a; G.711Mu; G726		
Compression	G.711a, G.711Mu, G720		
Network			
Ethernet	RJ-45 (10/100Base-T)		
Protocol	HTTP; HTTPs; TCP; ARP; RTSP; RTP; UDP; SMTP; FTP; DHCP; DNS; DDNS; PPPOE; IPv4/v6; QoS; UPnP;NTP; Bonjour; 802.1x; Multicast; ICMP; IGMP; SNMP		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI		
Streaming Method	Unicast / Multicast		
Max. User Access	20 (Total bandwidth: 72 M)		
Edge Storage	NAS, SFTP, Micro SD Card (support max. 256 GB) Local PC for instant recording		
Web Viewer	IE, Chrome, Firefox, Safari		
Management Software	SmartICRSS, DSS		
Smart Phone	IOS, Android		
Certifications			
Certifications	CE-LVD: EN62368-1 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		
Interface			
Video Interface	N/A		
Audio Interface	Built-in Microphone, 1 channel input/ output (RCA port)		
Alarm	Input: 1 channel in: 5mA 3V–5V DC Output: 1 channel out: 300mA 12V DC		
Electrical			
Power Supply	DC12V, PoE (802.3af)		
Power Consumption	Basic power consumption: 3.0W (12V DC); 3.5W (PoE)Max. power consumption (WDR + H.265 + IR LED intensity): 9.2W (12V DC); 10.7W (PoE)		
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		
	244.1 mm × 79.0 mm × 75.9 mm		
Dimensions	(9.6" × 3.1" × 3.0")		
Not Words	920a (1.9 lb)		

820g (1.8 lb)

1090g (2.4 lb)



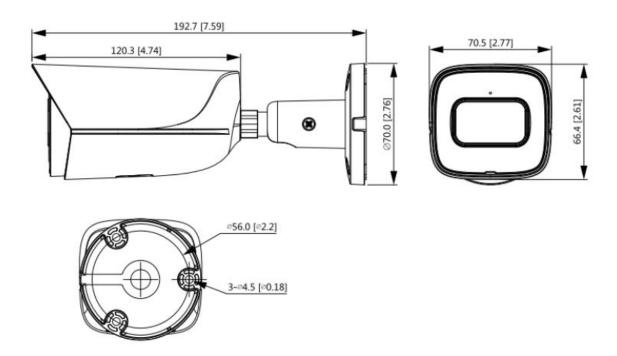
White Balance

Net Weight

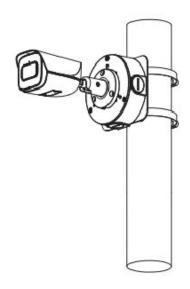
Gross Weight

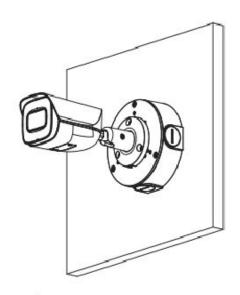


Dimensions (mm/in)



Accessories





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