PBE4L2W2-S/I

4MP Starlight IP Bullet

- 1/3” 4MP CMOS image sensor
- H.265 coding
- Built-in IR LED, max distance: 30m
- Max. 256 GB SD card
- 12V DC/POE power support
- IP67 protection grade

System Overview

This 4MP bullet camera has a 2.8mm lens and an IP67 rating to ensure that it can be used indoors and out. It uses IR light to allow you to see up to 98 feet at night, as well as Starlight™ technology to deliver color video in low-light situations. With Wide Dynamic Range (WDR), you’ll have a clear image no matter the lighting. This camera uses H.265 compression which can compress video up to 40% more than the previous H.264 codec. This, in turn, will save you storage space on your NVRs hard drives or SD card by reducing video size.

Features

Smart (H.265+ & H.264+)

Smart H.265+ technology is a collection of intelligent encoding algorithms based on H.265. To meet the characteristics of video surveillance, Smart H.265+ adopts some key video encoding techniques can be flexibly added/deleted or combined according to different applications and products. Smart H.265+ codec can effectively enhance video encoding efficiency according to the characteristics of different surveillance environments; furthermore, it can greatly reduce transmission bit rate, storage capacity to improve the overall system.

Wide dynamic range (WDR)

When part of an image is extremely dark but another part is so bright you can’t see any details, that’s dynamic range—the difference in lighting. Cameras with wide dynamic range (WDR) have special software that allows them to balance that lighting for one clear image. This makes them ideal for recording areas like store entrances where the contrast between the sunshine outside and the dim lighting inside can be extremely difficult to record.

Intelligent Video Analysis (IVS)

IVS system provides advanced, accurate video analytic for both IP and analog cameras. The IVS engine can track, classify and analyze the behavior of individual or group of objects over long distance to greatly improve parameter security and monitoring efficiency.

Starlight

The starlight standard sensor is just like the retina of your eyes which is sensitive to its ambient light, and the image quality is determined by how much light the sensor could use, together with the camera lens.The starlight camera technology uses larger and highly sensitive sensors, wider aperture and reduces the shutter speed to collect enough light for sharp monochrome/color images, even when human eyes couldn’t identify a thing. So the starlight camera can see right through the darkness, even when it is challenging for your eyes.

Protection (IP67, wide voltage)

IP67: This camera passed a series of strict tests on dust and water. It is dust-proof, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.
Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

ONVIF

Technical Specification

Camera

Image Sensor	1/3" CMOS
Effective Pixels	2688 (H) × 1520 (V)
ROM	128 MB
RAM	128 MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100000 s
Min. Illumination	0.01 Lux@F1.6
IR Distance	30 m (98.43 ft) (IR)
IR On/Off Control	Auto/Manual
IR LEDs Number	1 (IR LED)
Pan/Tilt/Rotation Range	Horizonal: 0°–360° Vertical: 0°–90° Rotation: 0°–360°

Lens

Lens Type	Fix focal
Mount Type	M12
Focal Length	2.8 mm
Max. Aperture	F1.6 F1.6
Field of View	2.8 mm: Horizonal: 102.0° Vertical: 55.0° Diagonal: 121.0°
Iris Type	Fixed
Close Focus Distance	2.8 mm: 0.9 m (2.95 ft)

DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8 mm	56 m (183.73 ft)	22.4 m (73.49 ft)	11.2 m (36.75 ft)	5.6 m (18.37 ft)

Smart event

General IVS Analytics	Intrusion; tripwire

Video

Video Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	H.264: Yes H.265: Yes
Video Frame Rate	50Hz Main stream (2560 × 1440@25 fps); sub stream (704 × 576@25 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 576@20 fps) 60Hz Main stream (2560 × 1440@30 fps); sub stream (704 × 480@30 fps) Main stream (2688 × 1520@20 fps); sub stream (704 × 480@20 fps)
Stream Capability	Main stream; sub stream
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)
Bit Rate Control	CBR/VBR
Video Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps
Day/Night	ICR switch
BLC	Yes
WDR	120 dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Disable/Enable (4 areas, rectangle)
Region of Interest(RoI)	Yes (4 areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution.)
Mirror	Yes
Privacy Masking	4 areas

Network

Network	RJ-45 (10/100 Base-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); CGI; Milestone; Genetec
User/Host	20
Edge Storage	Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS
Browser	IE Google Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android

Certification

Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL: UL60950-1 CAN

Power

Power Supply	12V DC/POE
Power Consumption	Basic power consumption: 2.2W (12V DC), 2.7W (POE) Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 4.2W (12V DC), 5W (POE)

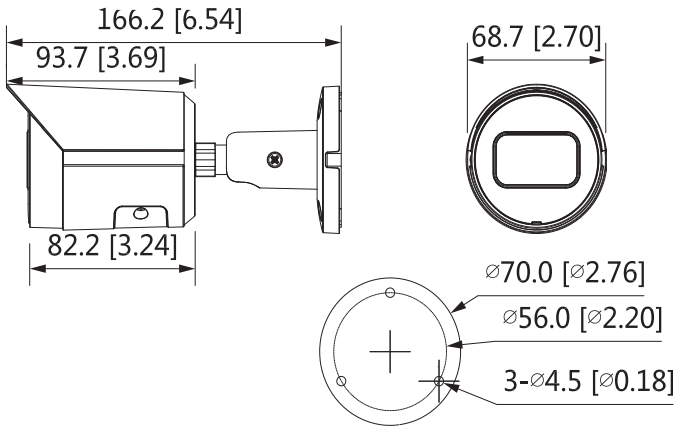
Environment

Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Operating Humidity	≤95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Storage Humidity	≤95%
Protection Grade	IP67

Structure

Casing	Metal
Dimensions	166.2 mm × Φ70 mm (6.54" × Φ2.76")
Net Weight	0.48 kg (1.06 lb)
Gross Weight	0.57 kg (1.26 lb)

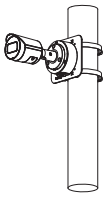
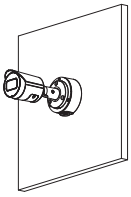
Dimensions (mm/inch)



Accessories

Optional:

JBEW-130
Junction Box

LEW-152E
Pole Mount

Pole Mount	Junction Mount
JBEW-130 + LEW-152E	JBEW-130