

IPVD-ELES4IRZA

4MP Motorized Vandal Dome



System Overview

With upgraded H.265 encoding technology, this camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function and tamper-proof function, complying to the standards of IP67 and IK10.

- 1/3" 4MP CMOS image sensor
- Max. supports 4MP (2688 × 1520)@20 fps
- SMART H.264/H.265
- 2.7 mm–13.5 mm motorized lens
- Built-in IR LED, max IR distance: 40 m
- 12V DC/POE power support
- IP67, IK10 protection grade



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.

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.

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.

Starlight Technology

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, IK10, wide voltage)

IP67: This camera passed a series of strict tests on dust and water. It has dust-proof functionality, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can withstand the pressure from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J) more than 5 times.

Wide voltage: The camera allows $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environments with unstable voltage.

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	40 m (131.23 ft) (IR)
IR On/Off Control	Auto/Manual
IR LEDs Number	2 (IR LED)
Pan/Tilt/Rotation Range	Horizontal: 0°–355° Vertical: 0°–67° Rotation: 0°–355°

Lens					
Lens Type		Motorized vari-focal			
Mount Type		ϕ14			
Focal Length		2.7 mm–13.5 mm			
Max. Aperture		F1.6			
Field of View		Horizontal: 104°–27° Vertical: 55°–15° Diagonal: 124°–31°			
Optical Zoom		5 times			
Iris Type		Fixed			
Close Focus Distance		0.8m–0.8m (2.62 ft–2.62 ft)			
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21 ft)
	T	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 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(Rol)	Yes (4 areas)
Smart IR	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 × 1520 resolution.)
Mirror	Yes
Privacy Masking	4 areas

Audio	
Audio Compression	G.711a; G.711Mu; G.726; AAC

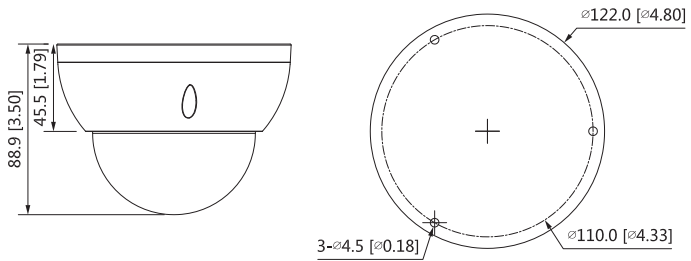
Network	
Network	RJ-45 (10/100 Base-T)
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP;IGMP;
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
User/Host	20
Edge Storage	Dahua Cloud; 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

Port	
Audio Input	1 (RCA port)
Audio Output	1 (RCA port)
Alarm Input	1 channel In: 5mA 5VDC
Alarm Output	1 channel Out: 300mA 12VDC

Power	
Power Supply	12V DC/POE
Power Consumption	Basic power consumption: 1.9W (12V DC); 2.8W (POE) Max power consumption: (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 5.6W (12V DC), 6.5W (POE)
Environment	
Operating Temperature	-30°C to +60°C (-22°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, IK10
Structure	
Casing	Metal
Dimensions	Φ122 mm × 88.9 mm (Φ4.80" × 3.50")
Net Weight	0.47 kg (1.04 lb)
Gross Weight	0.63 kg (1.39 lb)

Dimensions (mm/inch)



Accessories

Optional:



JBEW-137
Junction Box



WEW-203W
Wall Mount



LEW-152E
Pole Mount

Junction Mount	Wall Mount	Pole Mount
JB-EL137	WM-EL203W	WM-EL203W + PM-EL152-E
