

CAM-1990

4MP WDR IR Bullet Network Camera





- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, max. supports 4MP (2688 × 1520)@20 fps
- · H.265 coding, high compression ration, low bit rate
- · Built-in IR LED. max IR distance: 50 m
- ROI, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tempering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- · Max. 256 GB SD card
- 12V DC/POE power support
- IP67 protection













System Overview

With upgraded H.265 encoding technology, Dahua Lite series 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, complying to the standards of IP67.

Functions

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

Adopting advanced algorithm of auto stream control according to the environment, Dahua smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

Dahua adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

Starlight

Dahua Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, Dahua camera supports intelligent detection, such as tripwire and intrusion and so on.

Protection (IP67, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

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



Technical Specification							Bit Rate Control	CBR/VBR
Camera							Video Bit Rate	H.264: 32 kbps–6144 kbps H.265: 12 kbps–6144 kbps
Image Sensor		1/3" CMOS					Day/Night	ICR switch
Effective Pixels		2688 (H) × 1520 (V)					BLC	Yes
ROM		128 MB					WDR	120 dB
RAM		128 MB					White Balance	Auto/natural/street lamp/outdoor/manual/regional
Scanning System		Progressive					Gain Control	custom Auto (Magual
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s						Auto/Manual
Min. Illumination		0.01 Lux@F1.6					Noise Reduction	3D DNR
IR Distance		50 m (164.04 ft) (IR)					Motion Detection	Disable/Enable (4 areas, rectangle)
IR On/Off Control		Auto/Manual					Region of Interest(RoI)	Yes (4 areas)
IR LEDs Number		4 (IR LED)					Smart IR	Yes
Pan/Tilt/Rotation Range		Horizonal: 0°–360° Vertical: 0°–90°					Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 2688 ×1520 resolution.)
Lens	Long		Rotation: 0°–360°				Mirror	Yes
Lens Type		Motorized vari-focal					Privacy Masking	4 areas
Mount Type		ф14					Network	
Focal Length		2.7 mm–13.5 mm					Network	RJ-45 (10/100 Base-T)
Max. Aperture		F1.6					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
Field of View		Horizonal: 104°–27° Vertical: 55°–15°					Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
Tield of View	rieid of view		Diagonal: 124°–31°				User/Host	20
Optical Zoom	Optical Zoom		5 times				Edge Storage	Dahua Cloud; FTP; Micro SD card (max. 256 GB); NFS
Iris Type		Fixed					Browser	IE
Close Focus Dist	Close Focus Distance		0.8m-0.8m (2.62 ft-2.62 ft)					Google Firefox
	Lens	Detect	Observe	Recognize	Identify		Management Software	Smart PSS; DSS; DMSS
DORI Distance	W	64 m (209.97 ft)	25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (21.00 ft)		Mobile Phone	IOS; Android
	Т	220 m (721.78 ft)	88 m (288.71 ft)	44 m (144.36 ft)	22 m (72.18 ft)		Certification	
Smart Event	Smart Event							CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive
General IVS Analytics		Intrusion; tripwire					Certifications	2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Video	Video							UL: UL60950-1 CAN
Video Compression		H.265; H.264; H.264B; MJPEG					Power	
Smart Codec		H.264: Yes H.265: Yes					Power Supply	12V DC/POE
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)					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): 8W (12V DC), 9.6W (POE)
							Environment	
							Operating Temperature	-30°C to +60°C (-22°F to +140°F)
							Operating Humidity	≤95%
Stream Capability		Main stream; sub stream					Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Resolution		2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M					Storage Humidity	≤95%
		(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)					Protection	IP67

Lite Series | CAM-1990

Structure

Casing	Metal
Dimensions	Φ244.1 mm × 90.4 mm (Φ9.61" × 3.26")
Net Weight	0.86 kg (1.90 lb)
Gross Weight	1.10 kg (2.43 lb)

Accessories



CAM-225 IP66 Junction Box



CAM-215 Pole Mount

Pole Mount	Junction Mount

Dimensions (mm[inch])





