a hua

CAM-1991 4MP WDR IR Bullet Network Camera





- 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



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.



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.



Lite Series |CAM-1991

| 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 | | 50 m (164.04 ft) (IR) | | | | |
| IR On/Off Control | | Auto/Manual | | | | |
| IR LEDs Number | | 4 (IR LED) | | | | |
| Pan/Tilt/Rotation Range | | Horizonal: 0°–360° Vertical: 0°–90° Rotation: 0°–360° | | | | |
| Lens | | | | | | |
| Lens Type | | Motorized vari-focal | | | | |
| Mount Type | | φ14 | | | | |
| Focal Length | | 2.7 mm-13.5 mm | | | | |
| Max. Aperture | | F1.6 | | | | |
| Field of View | | Horizonal: 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) | | | | |
| | Lens | Detect | Observe | Recognize | Identify | |
| 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) | |
| | т | 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) | | | | |

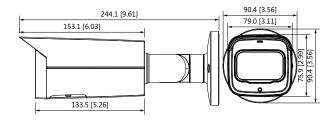
| Bit Rate ControlCBR/VBRVideo Bit Rate7.365: 32 kbps-6144 kbps (265: 32 kbps-6144 kbps)Day/NightKS witchBLCVSVDR20.08White Balancekuts/natrul/street lamp/outdoor/manual/regional dist/ontrul/street lamp/outdoor/manual/regional methodGain ControlAuds/natrul/street lamp/outdoor/manual/regional dist/on DetectionNoise ReductionDDNRRegion of Interest(RolVS (4 areas)MirorVS (4 areas)MirorVS (5 areas)NetworkVS (100 Dase-T)ProtocolNOFPORES/PS/PS/PS/PS/PS/PS/PS/PS/PS/PS/PS/PS/PS | | |
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| FinancialFides NotesEdge StorageDahua Cloud; FTP; Micro SD card (max. 256 GB); NFSBrowserE Google FirefoxManagement SoftwareSmart PSS; DSS; DMSSMobile PhoneIOS; AndroidCertificationCertificationCertificationsCE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU SCC: 47 CFR FCC Part 15, Subpart B UL: UL60950-1 CANPowerIV DC/POEPower Consumption1.9W (12V DC), 2.8W (POE) Max power consumption: 1.9W (12V DC), 2.8W (POE) Max power consumption (H.265, Max resolution, Max tream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6WPowerating Temperature-30°C to +60°C (-22°F to +140°F)Operating Humiditye55%Storage Temperature-40°C to +60°C (-40°F to +140°F)Storage Humiditye55% | Interoperability | ONVIF (Profile S/Profile G); CGI; Milestone; Genetec |
| RowserIs Google FirefoxManagement SoftwareSmart PSS; DSS; DMSSMobile PhoneIOS; AndroidCertificationISS; AndroidCertificationE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL UG0950-1 CANPowerPowerPowerStorpey Consumption: 1.9W (12V DC), 2.8W (POE) Max power consumption: 1.9W (12V DC), 2.8W (POE)FurironmentSasic power consumption: 1.9W (12V DC), 2.8W (POE) Max power consumption: H.265, Max resolution, Max ream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6WOperating Temperature-30°C to +60°C (-22°F to +140°F)Operating HumidityS5%Storage HumidityS95% | User/Host | 20 |
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| Mobile Phone IOS; Android Certification EE-LVD: EN60950-1 Certifications CE-LVD: EN60950-1 Certifications CE-LVD: EN60950-1 Certifications CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FOC: 47 CFR FCC Part 15, Subpart B Direction Power 12V DC/POE Power Consumption Basic power consumption (H.265, Max resolution, Max | Browser | Google |
| 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 Discompatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL: UL60950-1 CAN Power Subpart B UL: UL60950-1 CAN Power Sasic power consumption: 1.9W (12V DC), 2.8W (POE) Max power consumption (H.255, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE) Environment -30°C to +60°C (-22°F to +140°F) Operating Temperature -30°C to +60°C (-40°F to +140°F) Storage Temperature -40°C to +60°C (-40°F to +140°F) Storage Humidity >55% | Management Software | Smart PSS; DSS; DMSS |
| 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 12V DC/POE 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): 8W (12V DC), 9.6W (POE) Environment -30°C to +60°C (-22°F to +140°F) Operating Temperature -30°C to +60°C (-40°F to +140°F) Storage Temperature -40°C to +60°C (-40°F to +140°F) Storage Humidity >55% | Mobile Phone | IOS; Android |
| CertificationsCE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FC: 47 CFR FCC Part 15, Subpart B UL: UL60950-1 CANPowerI2V DC/POEPower ConsumptionBasic power consumption (H.265, Max resolution, Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 2.8W (POE)Power ConsumptionSasic power consumption (H.265, Max resolution, Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE)ForvironmentImage: Source Consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE)Operating TemperatureImage: Source Consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE)Operating TemperatureImage: Source Consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE)Operating TemperatureImage: Source Consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE)Operating TemperatureImage: Source Consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6WOperating TemperatureImage: Source Consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6WOperating TemperatureImage: Source Consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6WImage: Source Consumption (H.265, Max, resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6WImage: Source Consumptio | Certification | |
| 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): 8W (12V DC), 9.6W (POE) Environment -30°C to +60°C (-22°F to +140°F) Operating Temperature -30°C to +60°C (-22°F to +140°F) Storage Temperature -40°C to +60°C (-40°F to +140°F) Storage Humidity >95% | Certifications | CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B |
| 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 -30°C to +60°C (-22°F to +140°F) Operating Temperature -30°C to +60°C (-22°F to +140°F) Storage Temperature -40°C to +60°C (-40°F to +140°F) Storage Humidity >95% | Power | |
| Power Consumption Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W (POE) Environment | Power Supply | 12V DC/POE |
| 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% | Power Consumption | Max power consumption (H.265, Max resolution, Max stream, WDR, IR full intensity, IVS): 8W (12V DC), 9.6W |
| Operating Humidity ≤95% Storage Temperature -40°C to +60°C (-40°F to +140°F) Storage Humidity ≤95% | Environment | |
| Storage Temperature -40°C to +60°C (-40°F to +140°F) Storage Humidity ≤95% | Operating Temperature | -30°C to +60°C (-22°F to +140°F) |
| Storage Humidity ≤95% | Operating Humidity | ≤95% |
| | Storage Temperature | -40°C to +60°C (-40°F to +140°F) |
| Protection IP67 | Storage Humidity | ≤95% |
| | Protection | IP67 |

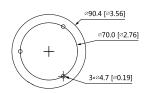
Lite Series |CAM-1991

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) |

Dimensions (mm[inch])





Accessories



CAM-1110 IP66 Junction Box

CAM-215 Pole Mount

