

V1421 MN Series

HD IP Integrated Explosion Proof Fixed Camera

Infinova[®]
The Integrator's Manufacturer



- Inbuilt 22X HD integrated camera module
- 1/1.9" large area progressive scanning CMOS sensor
- ICR infrared filter type automatic switch to realize true day/night surveillance
- Starlight-level ultra-low illumination: 0.0001 lux
- Supports multi-frame composite pattern wide dynamic and the maximum dynamic range is 120dB
- HD network video output: 1920x1080@30fps
- H.265+M-JPEG or H.264+M-JPEG video encoding, three streams
- Bi-directional audio, G.711a/G.711u standard optional
- Two alarm inputs and one alarm output
- Local PC recording
- Supports motion detection, 4 detecting areas dividable
- Supports multiple alarm-triggered ways, such as IO input, network disconnected, motion detection, etc.; supports flexible alarm associated configurations, such as I/O output, email, FTP picture-uploading and audio
- Supports Region of Interest (ROI) for which 8 regions can be divided
- Allows multiple users to perform live access and parameters settings via Web Server
- Compatible with Infinova digital video surveillance software and convenient to integrate with other video surveillance software
- Supports ONVIF Profile S and G standards
- Provides standard SDK, easy to integrate with other digital system
- Supports remote network upgrade
- Applicable for the first and second dangerous places which contain the explosive mixture constituted by T1~T6 group, A, B and C grade, II class combustible gases/vapors and air
- Window glass of front housing uses tempered glass while the main body and base use stainless steel

- Using fixed bracket to mount or adjustable wall bracket V1665-W1 to mount
- IP66, ExdIICT6 Gb
- CCOE/PESO

Infinova V1421MN series camera boasts of multiple built-in camera modules with high performance, adopts explosion proof shield design and can provide users with a set of full digital live image acquisition system featuring high definition, high frame rate, high signal-noise ratio and high assurance.

V1421MN series camera boasts of built-in 22X HD integrated network camera module, supports H.265/H.264/M-JPEG dual encoding, three-code stream HD video view and control and allows image output resolution up to 1920 x 1080 @ 30fps. The user-friendly GUI interface design enables users to configure camera parameters conveniently via network. Under Web interface, the user can conduct configurations and operations via a mouse which provides more convenience compared with a traditional keyboard.

This camera adopts explosion proof shield design, which can protect the webcam and the lens from damaging themselves under the outside explosion environment. The explosion proof shield structure as a whole is in cylindrical shape. The front end is flange cover while its rear end is cable flange cover. Window glasses made of toughened glasses are compressed on the flange cover by junk ring and sealed by specified sealant with O-ring. Rear cover is connected to the flange of cylinder through screws and is sealed by O-ring with specified rubber sealing ring. The base is linked to the cylinder by stainless steel hoop band.

All products shall meet the provisions of standard IEC60079-0: 2007 and IEC60079-1: 2007. They can be applied to the explosion environment (excluding mines) caused by the mixture of combustible gases and air. Boasting of IP66, the dust proof and water proof environmental rating, it means the dust cannot intrude into the products and there will be no damage to products when using water to clean them.

Technical specifications

| | |
|-----------------------|--|
| Optical Zoom | 22X |
| Image Sensor | 1/1.9" Sony progressive scanning CMOS sensor |
| Aperture/Focal Length | F1.5~F3.4, f=6.36~138.5mm |
| Angle of View | 70° (Wide) ~ 3.76° (Tele) |
| Minimum Work Distance | 0.3m (Wide) ~ 1.9m (Tele) |
| Day/Night Switch | ICR |
| Sensitivity | Color mode: 0.001 lux @ F1.5 (AGC ON) B/W mode: 0.0001 lux @ F1.5 (AGC ON) |
| Video Compression | H.265 /H.264 switchable M-JPEG independent encoding |
| Encoding Capability | 1080P@30fps+720P@30fps+MJPEG1080P@5fps |
| Output Data Rate | Variable bit rate; Constant bit rate: 256Kbps ~ 1000Kbps |
| Network Delay | <300ms |
| Audio Compression | G.711a/G.711u |
| Port | 1 input, linear level, impedance: 1kΩ 1 output, linear level, impedance: 600Ω |
| Sampling rate | 8KHz, 16KHz optional |
| Shutter | Auto, Manual (adjustment range PAL: 1/1s-1/32000s; NTSC: 1/1s-1/32000s) |
| DSS | Available |
| Video Parameters | Support configurations of white balance, exposure, day-night switch, gain control, mirror, 3D noise reduction, backlight compensation, Defog, Stabilization etc. |
| WDR | Supports multi-frame composite pattern wide dynamic with a range up to 120dB |
| Video Adjustment | Brightness, sharpness, saturation, contrast, chroma |
| Motion detection | Up to 4 detection areas |
| ROI | Up to 8 regions |
| Network Interface | 1*RJ45 10/100M self-adaptive Ethernet port |
| Network Protocol | IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP |
| Alarm Port | 2 alarm inputs, 1 switching value output |
| Alarm Input | I/O input, network disconnecting, motion detection, video tampering |
| Link | I/O output, email, FTP picture uploading, audio |
| Local Storage | Upto 128 GB SD card |

| | |
|------------------------------------|--|
| Operating System | Supports Windows XP, Windows Vista, Win7, or Win8 operating system |
| Browser | IE7, IE8, IE9, IE10, IE11 |
| Access Protocol | ONVIF2.4, CGI |
| Web Server | Available |
| Remote Network Upgrade | Available |
| Security | Password Protection, IEEE 802.1X, IP Address Filtering |
| Material | 316 stainless steel |
| Environmental Rating | IP66 |
| Unit Dimensions (H×W×L) | 4.92"×4.92"×14.01" (164mm×164mm×467.1mm) |
| Unit Weight | 33.07 lbs (14kg) |
| Shipping Weight | 30.87 lbs (15kg) |
| Box Dimensions (H×W×L) | 7.56"×7.26"×16.56" (252mm×242mm×552mm) |
| Power Supply | 24VAC/PoE+ |
| Power Consumption | 25W (max.) |
| Operating Temperature | -40°C~+60°C |
| Operating Humidity | 0~95% RH (+25°C) |
| Applicable Environment | Applicable to division 1 and 2 hazardous locations (such as refineries, petrochemical plants or gas stations) where fire or explosion hazards may exist due to the presence of flammable gases or vapors (Gas Groups: II A, II B, II C; Temperature Classes: T1-T6); Applicable to zone 21 and 22 hazardous locations where combustible dust clouds may occur. |
| Certifications and Approval | |
| Product Certifications | CNEx: Exd IICT6 Gb, Extd A21 IP66 T80°C ¹ IECEX: Exdb IICT6 Gb, Extb IIIC T80°C Db ² CCOE/PESO ³ CE/EMC: EN55022, EN55024, EN 61000-3-2, EN-61000-3-3 ⁴ ; CE/LVD: EN60950-1 ⁵ FCC: PART 15 Subpart B Class A ⁶ |

Certificate No.: ¹CNEx16.3141X; ²IECEX CQM 14.0028X; ³P387612/1;
⁴CTL1611168101-EC, CTL1611308101-EC; ⁵CTL1611308101-SC;
⁶CTL1611168101-FC, CTL1611308101-FC

Ordering information

V1421MN-A222-A02

HD IP Integrated Explosion Proof Fixed Camera, 2.0M, 22X, 1/1.9"CMOS, Day/Night, H.265/H.264/M-JPEG, 15" Explosion Proof Housing, with sunshield, wiper, heater, blower, 316 stainless steel, with audio/alarm, 24VAC/PoE+

Mounts

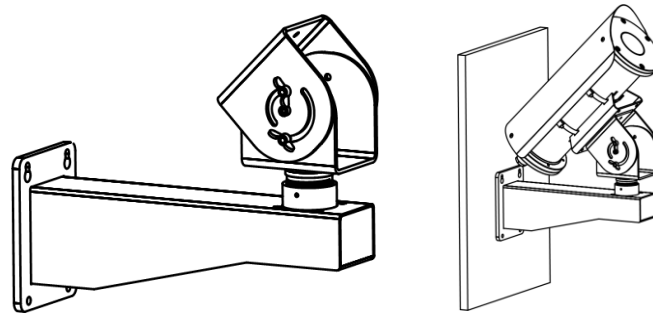
V1665-W1

Adjustable Wall Mount, 316 Stainless Steel

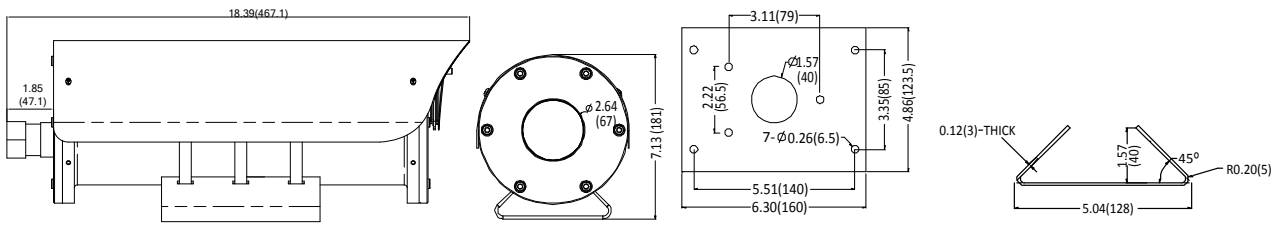
LAS60-57CN-RJ45-F

POE power sourcing equipment, 100-240VAC inputs, 60W output

Installation



Dimensions



Installation Dimensions



(Unit: inch, in the parentheses is mm)