

# V1421 MN-A2 Series

## HD 2MP Integrated Explosion-proof IP Camera

**Infinova**<sup>®</sup>  
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 for 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/AAC standard optional
- Supports electronic amplification.
- Two alarm inputs and one alarm output
- Supports built-in storage and NAS storage.
- Supports alarm recording and alarm snapshot.
- Supports PC recording
- Supports motion detection, 4 detecting areas dividable
- Supports multiple alarm-triggered ways, such as IO input, motion detection, mask alarm, smart analysis, SD card removal, network disconnection, heartbeat loss etc.; supports flexible alarm associated configurations, such as I/O output, email, FTP picture-uploading, audio, and TF card recording
- 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 standard
- 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

- IP66 rating
- Using fixed bracket to mount or adjustable wall bracket V1665-W1 to mount
- Window glass of front housing uses tempered glass while the main body and base use stainless steel

Infinova V1421MN series HD network explosion proof camera boasts of HD network video output up to 1920x1080@30fps, adopts explosion proof shield design and provides 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, and supports H.265/H.264/M-JPEG dual encoding, three-code stream HD video view. The user-friendly GUI interface design enables users to configure camera parameters conveniently via network.

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

Lens Parameter	
Optical Zoom	22X
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)
Camera Parameter	
Image Sensor	1/1.9" Sony progressive scanning CMOS sensor
Valid Pixel	2MP
S/N	>55dB
Day/Night Switch	ICR
Sensitivity	Color mode: 0.001 lux @ F1.5 (AGC ON) B/W mode: 0.0001 lux @ F1.5 (AGC ON)
Camera Function	
Iris	Auto/Manual/Manual priority
Focus	Auto/Manual/Manual priority
Shutter	Auto/Manual (1/1-1/32000s scalable)
Slow Shutter	Available
WDR	Supports multi-frame composite pattern wide dynamic with a range up to 120dB
Image Mirror	Vertical/horizontal
Digital Noise Reduction	3D
White Balance	Auto/Manual/Outdoor
AGC	Available
Backlight Compensation	On/Off
Highlight Compensation	On/Off
Image-stabilization	On/Off
Defog	Available
Others	Brightness, sharpness, saturation, contrast, chroma adjustable
Motion detection	Up to 4 detection areas
Privacy Mask	Up to 4 areas
ROI	Up to 8 regions
Electronic Amplification	Available
Video	
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	
Audio Compression	G.711a/G.711u/AAC
Sampling rate	8KHz, 16KHz

Audio Port	1 input, Linear level, Resistance: 1kΩ; 1 output, Linear level, Resistance: 600 Ω
Intelligent Functions	Supporting cross-line detection and region intrusion detection
Alarm	
Alarm Port	2 alarm inputs, 1 switching value output
Alarm Input	I/O input, motion detection, video tampering, smart analysis, SD card removal, network disconnection, heartbeat loss
Link	I/O output, email, FTP picture uploading, audio, TF card recording
Built-in Storage	Available, 128GB Micro SD/SDHC/SDXC card recommended
System Operation	
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
Password Protection	Available
IP Indicator	
Network Interface	1*RJ45 10/100M self-adaptive Ethernet port
Network Protocol	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP, SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
Electricity Indicator	
Power Supply	24VAC/PoE+(IEEE802.3at type2 Class4, power over pairs 1/2(-)and 3/6(+) or 4/5(+)and 7/8(-)), 110VAC or 240VAC
Power Consumption	25W (max.)
Environment Indicator	
Operating Temperature	-40°F~140°F (-40°C~+60°C)
Operating Humidity	0~95% RH (+25°C)
Installation Mode	Wall mount, Pole Mount, and Corner Mount
Unit Weight	33.07 lbs (14kg)
Shipping Weight	30.87 lbs (15kg)
Applicable Environment	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;
Certifications and Approval	
Product Certifications	CNEx, ExdIICT6, IECEx, ExdIICT6, CCOE/PESO <sup>1</sup> CE/EMC: EN55022, EN55024, EN61000-3-2, EN61000-3-3 <sup>2</sup> ; CE/LVD: EN 60950-1 <sup>3</sup> FCC: PART 15 Subpart B Class A <sup>4</sup>

Certificate No.: <sup>1</sup>P387612/1; <sup>2</sup>CTL1611168101-EC, CTL1611308101-EC;

<sup>3</sup>CTL1611308101-SC; <sup>4</sup>CTL1611168101-FC, CTL1611308101-FC.

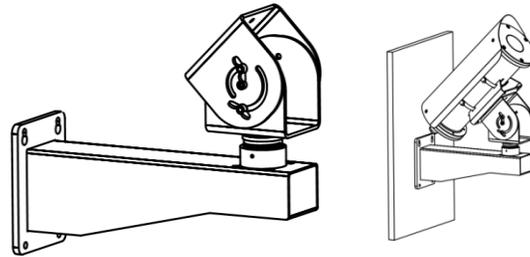
## Ordering information

V1421MN-A222-A02	HD 2.0MP 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+
V1421MN-A222-A72	HD 2.0MP 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, 110VAC
V1421MN-A222-A82	HD 2.0MP 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, 240VAC

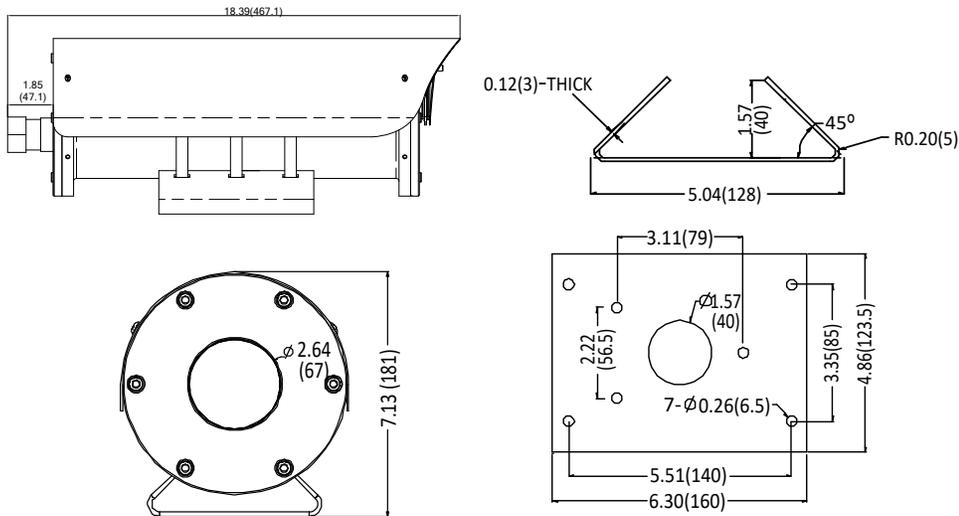
### Mounts

V1665-W1	Adjustable Wall Mount, 316 Stainless Steel
LAS60-57CN-RJ45-F	Input voltage 90VAC-264VAC, two-way output (30w for each), compatible with IEEE pre802.3af, 802.3at standard power supply equipment, and RoHs standard.

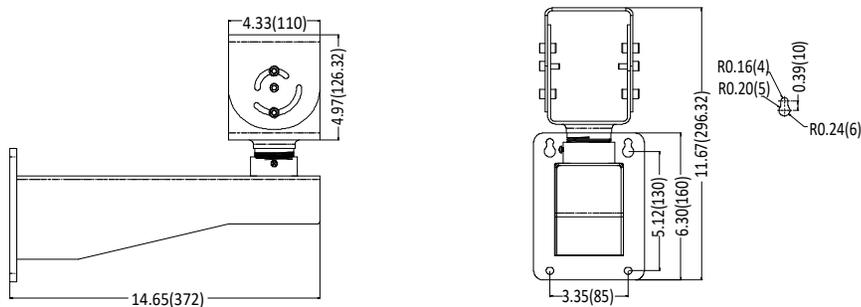
## Installation



## Dimensions



## Mount Installation Dimensions



(Unit: inch, in the parentheses is mm)