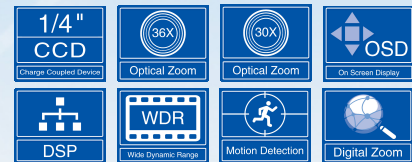


V1421 Series

Integrated Explosion Proof Fix Zoom Camera

Infinova[®]
The Integrator's Manufacturer



- **1/4" SONY CCD**
- **Digital Signal Processor (DSP) chip-set for image control**
- **30X/36X optical zoom, digital zoom available**
- **Excellent low light illumination**
- **High sensitivity, high resolution, and high S/N ratio**
- **Auto Electronic Shutter (AES), Auto/Manual Iris, Auto/Manual Focus, Auto/Manual Gain Control**
- **Multiple White Balance modes**
- **Backlight Compensation (BLC)/Highlight Compensation (HLC)**
- **Supports WDR**
- **Supports noise reduction**
- **Motion detection**
- **Up to 8 definable privacy masks**
- **Supports RS485 remote control, with protocol and baud rate auto-sensing**
- **Supports camera title setting, up to 13 characters**
- **Supports OSD menu**
- **316 stainless steel construction**
- **The front end window utilizes steel glass**
- **Strong corrosion-resistant capabilities**
- **IP66 environmental protection**
- **Suitable for indoor/outdoor flammable and explosive hazardous areas**
- **Use with fixed mount or adjustable mount**

Infinova's V1421 series Integrated Explosion Proof Fix Zoom Camera employs high resolution CCD and Digital Signal Processor (DSP) chip-set for image control, which provides clear high-resolution images and perfect function. Focal length and focusing are adjustable via the buttons on the back panel of the camera. And special functions, such as white balance, auto gain, backlight compensation and day/night switching can be performed via the menu.

The lens control input interface is built in the camera to be used with decoder and matrix switcher. It is also compatible with INFINOVA, PELCO-P/D protocols. The camera can be directly controlled through the RS485 interface to achieve multi-level and long-distance communication.

The features in the design are in accordance with IECEx standard. The symbol for explosion-proof camera housing is ExdIICT6.

Environmental protection is IP66.

Technical specifications

For Camera	
Optical Zoom	30X, 36X
Zoom Speed	30X/36X: <3.5s
Digital Zoom	30X/36X: 20X
Video Type	PAL (D/N)
Scanning System	2:1 Interlaced scanning
Image Sensor	1/4" CCD
Effective Pixels (H×V)	30X/36X: 976 × 582
Lens	30X: F1.4~close, f=3.3~99.4mm 36X: F1.4~F4.2, f=3.3~119mm
Angle of View (Horizontal)	30X: 57.25° (WIDE)~ 2.08° (TELE) 36X: 60.15° (WIDE)~ 1.47° (TELE)
M.O.D	30X/36X: 10cm (WIDE) ~ 150cm (TELE)
Sensitivity	30X/36X: Color mode:0.30Lux (F1.4, 50IRE); B/W mode: 0.08Lux (F1.4, 50IRE)
Horizontal Resolution	30X/36X: 650TVL
S/N Ratio	>62dB
Sync System	Internal
Video Output	1.0 ±0.2Vp-p Composite (75 Ohm), BNC connector
Focus	Auto/Manual, focus speed adjustable
Iris	Auto/Manual
Shutter Speed	Auto/Manual
Gain Control	Auto/Manual
BLC	OFF/BLC/HLC
DSS	30X/36X: X2~X128
NR	30X/36X: 2D/3D
Stabilizer	30X/36X: ON/OFF
WDR	Available
White Balance	ATW/ONE PUSH/MANU/INDOOR/ OUTDOOR
Motion Detection	Available
Privacy Mask	Available, up to 8 masks
Image Set	Brightness, contrast, saturation and sharpness adjustment
RS485 Control	Protocol: INFINOVA/ PELCO-P/ PELCO-D/AUTO
	Camera ID: 1~255
	Baud rate: 2400/4800/9600/19200bps/AUTO
OSD	Supports camera title setting, up to 13 characters
Power Supply	12VDC/24VAC
Power Consumption	30X/36X: < 3W
Operating Temperature	14°F ~ 122°F (-10°C~+50°C)
Storage Temperature	-4°F ~ 140°F (-20°C~+60°C)
Operating Humidity	0~90% RH (non-condensing)
Unit Dimensions (H×W×L)	3.15"×2.56"×5.69" (80mm×65mm×144.6mm)
Net Weight	30X/36X: 1.21lbs(0.550kg)

For Camera Housing	
Mechanical	
Construction	316 Stainless Steel
Environmental Rating	IP66
Physical	
External Dimensions (W×H×L)	6.46"×6.46"×18.39" (164 mm×164 mm×467.1 mm)
Internal Dimensions (W× H×L)	2.68"×3.15"×10.24" (68 mm×80 mm×260 mm)
Unit Weight	30.86 lbs. (14 kg)
Shipping Weight	33.07 lbs. (15 kg)
Box Dimensions (W×H×L)	9.53"×9.92"×21.73" (242 mm×252 mm×552 mm)
Electrical	
Input Voltage	230 VAC, 60/50 Hz
Power Consumption	30 W (Maximum)
Environmental	
Atmospheric Pressure	86kpa~106kpa
Operating Temperature	-4 °F ~ 140 °F (-20 °C~+60 °C)
Relative Humidity	95% RH (77°F/25°C)
Application Field	For Division 1 and 2 hazardous locations 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)
Certifications and Approval	
Product Certifications	CE/EMC: EN 55022, EN 55024, EN 61000-3-2, EN 61000-3-3 ¹ , FCC PART 15 Subpart B Class A ² , CCOE ³ , IECEx: IEC 60079-0, IEC 60079-1, IEC 60079-31 ⁴ , ISO 9001:2008

Certificate No.: ¹CTL1402200218-EC, ²CTL1402200218-FC, ³P338680/1, ⁴IECEx CQM 14.0028X.

For Mounts	
Construction	316 Stainless Steel
Unit Weight	8.82 lbs. (4kg)
Shipping Weight	11.02 lbs. (5kg)
Box Dimensions (L×W×H)	17.52"×12.60"×6.6" (445 mm×320 mm×170 mm)

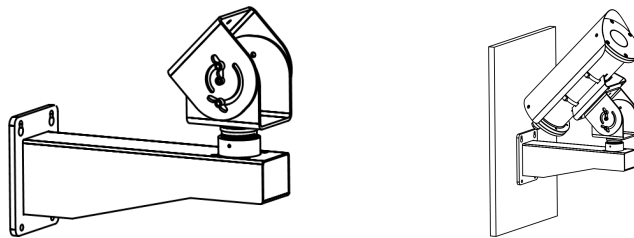
Ordering information

- V1421-15SHB8-2A30 Integrated explosion-proof zoom camera, built-in V1242 day/night zoom camera, 650TVL, 30X optical zoom, w/ sunshield, wiper, heater, blower, 316 Stainless Steel, 230VAC
- V1421-15SHB8-2A36L Integrated explosion-proof zoom camera, built-in V1242 day/night zoom camera, 650TVL, 36X optical zoom, w/ sunshield, wiper, heater, blower, 316 Stainless Steel, 230VAC

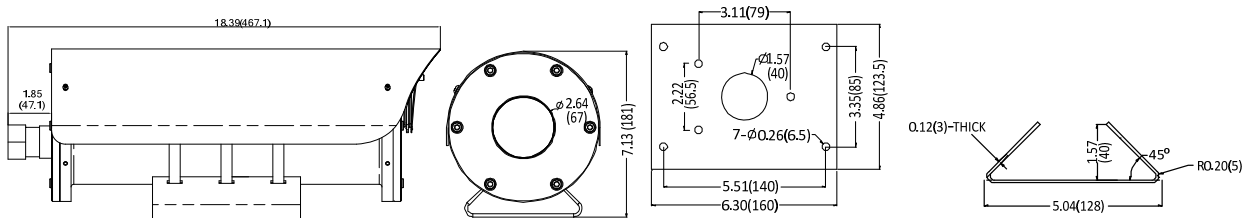
Mounts

- V1665-W1 Adjustable Wall Mount, 316 Stainless Steel

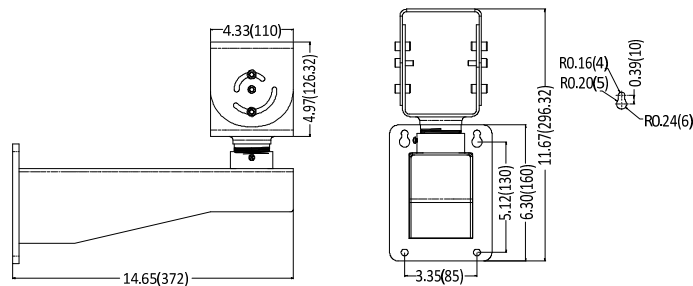
Installation



Dimensions



Mount dimensions



(Unit: inch, in the parentheses is mm)