

VT231-E230 Series

HD 2MP Smart Starlight WDR Fiber-Optic IR IP PTZ Dome Camera

Infinova[®]
The Integrator's Manufacturer



- Built-in 30X HD integrated camera module
- Large area progressive scanning CMOS sensor
- ICR infrared filter type automatic switch to realize true day/night surveillance
- Starlight-level ultra-low illumination
- Supports multi-frame composite pattern wide dynamic and the maximum dynamic range is 120dB
- Inbuilt efficient infrared lamps, wave length 850nm, to ensure stable long-term use and reduce maintenance cost
- Night vision distance up to 150 meters
- The ways of turning on the infrared lamps can be flexible to meet diversified surveillance environment demands
- The infrared power is automatically adjusted based on dome drive zooming or manually to optimize lighting effects in the night
- HD network video output: 1920×1080@60fps
- Inbuilt industrial-grade optical module with TX/RX wavelength: 1310nm/1550nm; supports FC optic port and 100base-F Ethernet standards.
- Features smart functions to achieve border protection (wire cross, intrusion)
- Supports intelligent tracking
- H.265+M-JPEG or H.264+M-JPEG video encoding, three streams
- Supports dual SD card
- Supports alarm recording and alarm snapshots
- Bi-directional audio, G.711-A/G.711-U/G.726/AAC standard optional
- Two alarm inputs and one alarm output
- Supports motion detection, 4 detecting areas dividable
- Supports multiple ways to trigger alarms, such as I/O input, motion detection, intelligent analysis, SD card removal, network disconnection, heartbeat loss, etc.; supports flexible alarm associated configurations, such as I/O output, email, FTP uploading, audio, SD card snapshot and SD card recording
- Supports Region of Interest (ROI), 8 regions dividable
- Allows multiple users to perform live access and parameters settings via Web Server
- Supports preset, autopan, pattern, autoscan, time tour, normal tour, power-on return, etc.
- Compatible with Infinova digital video surveillance software and

- convenient to integrate with other video surveillance software
- Supports ONVIF Profile S & G standard
- Standard SDK, easy to integrate with other digital system
- Supports RS485 control and analog video output for easy debugging
- IP67 protection rate, built in with a heater and air circulation system to avoid icing
- IK10
- Supports remote network upgrade

VT231-E2 series HD Fiber-Optic IR IP dome camera provides high quality video with the resolution up to 1920x1080@60fps, adopts H.265/H.264/M-JPEG compression formats, and boasts of excellent resolution and color reproduction ability to ensure richer and more accurate details to be acquired and also guarantee the accuracy of intelligent analysis in a more effective way.

This product adopts large power LED infrared lamps, with infrared wave length of 850nm, long night vision distance up to 150m, and strong illumination. The IR lamps can turn on or off automatically based on environmental lighting conditions or can be manually adjusted. The IR illumination allows flexible adjustment so as to reduce IR lamp calorific value and extend its service life.

Built in with industrial-grade optical module with TX/RX wavelength of 1310nm/1550nm, this camera supports FC optic port and 100base-F Ethernet standard.

User-friendly GUI interface design allows users to perform dome PTZ control easily via network and to configure detailed camera parameters settings. At Web interface users can perform dome camera settings and operations by using a mouse which is more convenient than the traditional keyboard control. It also supports area zoom and image PTZ function.

VT231-E2 series dome cameras also feature general dome functions such as preset, pattern, autopan, autoscan, time tour and normal tour.

Technical specifications

Lens

Optical Zoom	30X
Image Sensor	1/2" Sony progressive scanning CMOS sensor
Aperture/Focal Length	F1.6~F4.8, f=6~180mm
Field of View	H: 2°~59°; V: 1°~34°; D: 2°~66°
Min. Work Distance	0.01m (Wide) ~ 1.5m (Tele)
S/N Ratio	>62dB
Iris	Auto/Manual
Focus	Auto / Manual / M/A
Shutter	Auto/Manual (PAL: 1/1-1/32000s)
Day/Night Switch	ICR
Sensitivity	Color mode: 0.0003 lux @ F1.6 (AGC ON); B/W mode: 0.0001 lux @ F1.6 (AGC ON); 0 lux (IR ON)

Video

Compression	H.265 /H.264 switchable M-JPEG independent encoding
Encoding Capability	H.264/H.265-60fps@1920×1080 + H.264/H.265-30fps@1920×1080 + MJPEG-5fps@1920×1080
Data Rate	Variable bit rate; Constant bit rate: 256Kbps~10000Kbps
Multiple Streams	Supports independent output of three streams
ROI	Up to 8 regions
Network Delay	<160ms

Audio

Compression	G.711-A/G.711-U/G.726/AAC
Sampling rate	8KHz (for G.711-A/G.711-U/G.726) 16KHz, 32KHz, 44.1KHz or 48KHz (for AAC)
Port	1 input, linear level, impedance: 1kΩ 1 output, linear level, impedance: 600Ω

Optical Port Output

Port	1 FC port
Standard	Supports 100base-FX Ethernet standard
Wavelength	TX/RX: 1310nm/1550nm

Camera

White Balance	Auto/Manual/Outdoor
WDR	Supports multi-frame composite pattern wide dynamic with a range up to 120dB
Video Adjustment	Brightness, contrast, saturation, chroma, sharpness
Noise Reduction	3D
Defog	Available
EIS	Available
Mirror	Horizontal, vertical
AGC	Available
BLC	Available
HLC	Available
Privacy Mask	Up to 8 privacy areas

IR Lamp

Wave Length	850nm
Night Vision Distance	150m

Smart Video Analysis

Motion Detection	Up to 4 areas
Smart Video Analysis	Wire cross, area intrusion, intelligent tracking

Storage

Internal Storage	Supports dual cards, compatible with Micro SD/SDHC/SDXC card (single card up to 256GB)
Local recording	Available

Alarm

Port	2 alarm inputs, 1 on/off output
Input	I/O input, motion detection, intelligent analysis, SD card removal, network disconnection, heartbeat loss

Actions with Alarm	I/O output, email, FTP picture uploading, audio, SD card snapshot, SD card recording
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Pan/Tilt Functions

Preset	1024
Pattern	12
Autopan	12
Normal Tour	16 groups (each tour can link to 14 actions, optional with Presets 1~32, Patterns 1~4 and Autopans 1~4)
Home Return	Available
Timing Tour	Available
Autoscan	Available
Area Zoom	Available

System Functions

Operating System	Windows XP, Win7, or Win8 operating system
Browser	IE7, IE8, IE9, IE10, IE11
Access Protocol	ONVIF Profile S & Profile G, CGI
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	Supports 1*RS485
Analog Video Output	Supports 1*BNC port

IP

Port	1*RJ45 10/100M self-adaptive Ethernet port
Protocol	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP, SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TLS, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
IP Filter	Available

Mechanical

Manual Speed	Pan: 0.01° ~ 1000°/s; Tilt: 0.01° ~ 300°/s
Preset Speed	Up to 400°/s
Rotation Angle	Pan: 360°; Tilt: -5° ~ 90° (auto-flip)
Preset Accuracy	<±0.1°

Electrical

Power Supply	24VAC (-25%~+35%) / 24VDC (±35%) self-adaptive
Power	<17W (idle state) <55W (max., heater on, IR lamp manually adjusted to maximum)

Environmental

Anti-Static	Air discharge 14KV Contact protection 8KV
Surge Protection	±8KV
Operating Temperature	-49°F ~ +158°F (-45°C ~ +70°C) (outdoor)
Storage Temperature	-4°F ~ +140°F (-20°C ~ +60°C)
Operating Humidity	0 ~ 90%RH (non-condensing)
Environmental Rating	IP66
Impact Resistance	IK10

Physical

Mounting	Wall, pole and corner mount
Product Dimension (H x D)	14.6" × Φ9.04" (370mm × Φ229.6mm)
Package Dimension (L x W x H)	19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
Unit Weight	12.79 lbs (5.8kg)
Shipping Weight	16.76 lbs (7.6kg)

Certifications and Approval

Product Certifications	CE ¹ , FCC ² , IP67 ³ , IK10 ⁴ , UL ⁵
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Certificate No.: ¹RSZ151218006-01; ²RSZ151218006-00; ³GTI201919075; ⁴EM160622016RE001.

⁵ E232008-A53

Ordering information

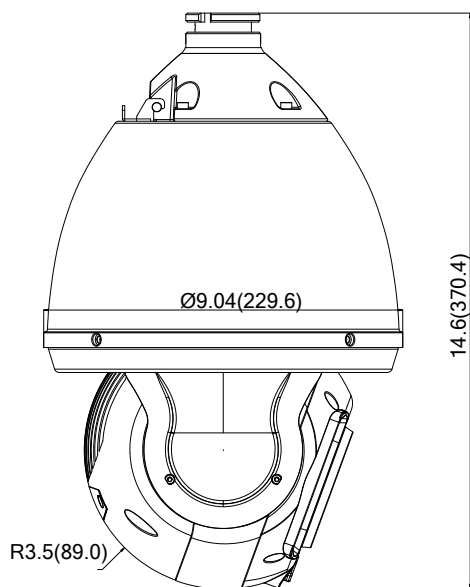
VT231-E230-C061 HD IR IP dome camera, 2.0Mpx, 30X, 1/2" CMOS, day/night, H.265/H.264/MJPEG, with audio alarm, outdoor, bracket mount, with 100M optical port, 24VDC/24VAC

Accessories

V1761K Wall Mount, bayonet, 10 inches
V1762K Corner Mount, bayonet, 10 inches
V1763K Pole-side Mount, bayonet, 10 inches

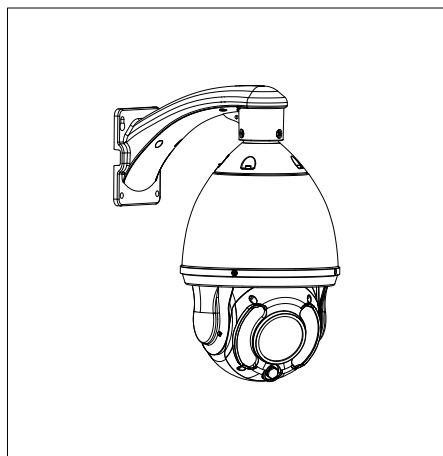
Note: Only professional and technical personnel are allowed to remove and install the camera.

Dimensions

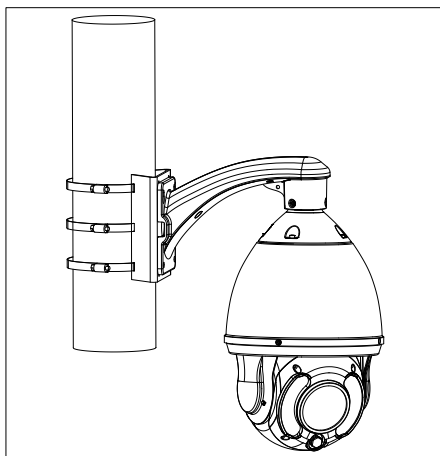


(Unit: inch, in the parentheses is mm)

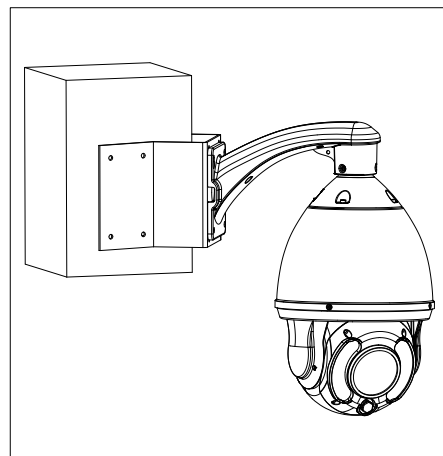
Mounting



Wall mounting



Pole mounting



Corner mounting