VT231-A2 SERIES

HD 2MP SMART STARLIGHT WDR IR IP PTZ DOME CAMERA

Infinova®

2.0 Mega Pixels | IR | 1/1.9" CMOS | H.264 M-JPEG | H.265 M-JPEG | Three Video Streams | ONVIF

Web Server | Day & Night

FEATURES

- Built-in 30X 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
- Supports multi-frame composite pattern wide dynamic and the maximum dynamic range is 120dB
- Inbuilt efficient infrared lamps, wave length 850nm, ensure stable long-term use and reduce maintenance cost
- Night vision distance up to 200 meters
- The ways of turning on the infrared lamps can be flexible to meet diversified surveillance environment demands
- The infrared power is adjusted automatically based on dome drive zooming or manually to optimize the night vision fill-in light effects
- HD network video output: 1920×1080@60fps
- 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 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.
- Supports ONVIF Profile S/G & T standard
- Standard SDK, easy to integrate with other digital system
- Supports RS485 control and analog video output for easy debugging
- IP67 protection rate, inbuilt a heater and air circulation system to avoid icing
- IK10
- Supports remote network upgrade

DESCRIPTION

VT231-A2 series HD 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, infrared wave length 850nm, long night vision distance up to 200m, strong illumination. The IR lamps can turn on or off automatically based on environmental lighting conditions or can be adjusted manually. The IR illumination allows flexible adjustment so as to reduce IR lamp calorific value and extend its service life.

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-A2 series dome cameras also feature general dome functions such as preset, pattern, autopan, autoscan, time tour and normal tour.

TECHNICAL SPECIFICATIONS

Lens (Visible)

Image Sensor	1/1.9" progressive scanning CMOS
Optical Zoom	30X
Digital Zoom	12X
Focal Length	f=6~180mm
Iris	F1.6~F4.8
Focus	Auto/Manual
FOV(H/V/D)	H: 2°~59°; V: 1°~34°; D: 2°~66°
Lens Mount	-

Lens (Thermal)

Imager Type	-
Lens Type	-
Spectral Band	-
Pixel Size	-
NETD	-
Focal Length	-
FOV	-

Video

Camera Resolution (Visible Lens)	2MP
Camera Resolution (Thermal Lens)	-
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265-60fps@1920x1080 Minor stream: H.264/H.265-30fps@640×480 Third stream: M-JPEG -5fps@1920×1080
Max. Coding Capacity (Thermal Lens)	-
Data Rate	VBR/CBR Major stream: 256kbps~10240kbps
Video Compression	H.265 /H.264/M-JPEG independent coding
Multi-Streaming	Three-stream independent output
Video Rotation	Video can be rotated by 90°, 180°

Audio

Audio Compression	G.711-A/ G.711-U/ G.726/ AAC
Sample Rate	8KHz (for G.711-A/G.711-U/G.726), 16KHz, 32KHz, 44.1KHz or 48KHz (for AAC)
Audio Interface	1 input, linear level, impedance: 1kΩ 1 output, linear level, impedance: 600Ω
Two-way Audio	Available
Mic & Speaker	-

Image

Shutter	Auto/Manual (1/1~ 1/32000s)
WDR	Up to 120dB
Exposure	Auto/Manual/Shutter
Sensitivity	Color mode: 0.001 lux @ F1.6 (AGC ON); B/W mode: 0.0001 lux @ F1.6 (AGC ON); 0 lux (IR ON)
White Balance	Auto/Manual/Outdoor
Video Adjustment	Brightness, contrast, saturation, chroma, sharpness
Noise Reduction	3D
S/N Ratio	>62dB
Defog	Available
EIS	Available
Mirror	Horizontal, Vertical
Corridor Mode	-
Day/Night Switching	ICR
AGC	Available
BLC	Available
HLC	Available
Privacy Mask	Up to 4 definable zones
ROI	Up to 8 definable zones
OSD	Supported

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

IR Illumination

Smart-IR	Available
Wave Length	850nm
Night Vision Distance	200m

Temperature Measurement

Screening	-
Function	-
Measurement	-

TECHNICAL SPECIFICATIONS

Measurement Distance	-
Measurement Range	-
Accuracy	-

Smart Analytics

Video Analytics	Motion detection - Up to 4 detection areas Smart Video Analysis - Wire cross, area intrusion Intelligent Tracking - Rule-triggered tracking and manual-triggered tracking

Storage

Storage Slots	Supports dual cards
Built-in Storage	Up to 512GB
NAS Storage	-
Local PC Recording	Available

Alarm

Alarm Ports	2 alarm inputs, 1 on/off output
Alarm Input	I/O input, motion detection, intelligent analysis, SD card removal, network disconnection, heartbeat loss
Alarm Association	I/O output, email, FTP picture uploading, audio, SD card snapshot, SD card recording

System Functions

Operating System	Win 7 or above versions
Browser	IE8 or above versions
Access Protocol	ONVIF Profile S/G/T, CGI 2.7
Multiple Access	Up to 5-ch simultaneous access
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	Supports, 1*RS485
Analog Video Output	Supports, 1*BNC port
Maximum Number of Users	32, with 3 types of users available: administrator, normal user, and operator
Wiper	-

Network

Network Interface	1*RJ45 10/100M self-adaptive Ethernet port
Network Protocols	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP, SMTP, NTP, RTP, RTSP, RTCP, SFTP, HTTP, HTTPS, TSL, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP
IP Address Filtering	Support blacklist and whitelist filtering
Network Delay	<160ms

Environmental

Anti-Static	Air discharge 14KV, Contact protection 8KV
Surge Protection	±8KV
Operating Temperature	-49°F ~ 158°F (-45°C ~ 70°C) (outdoor) -4°F ~ 140°F (-20°C ~ 60°C) (PoE+, outdoor)
Storage Temperature	-4°F~140°F (-20°C~60°C)
Operating Humidity	≤95% RH
Environmental Rating	IP67
Impact Resistance	IK10

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°
Electric Motor	Stepping motor

Electrical

Power Supply	PoE+ (IEEE802.3at type2 Class4)/ 24VAC/ 24VDC
Power Consumption	<17W (idle state); <55W (Heater on, IR lamp manually adjusted to maximum); <50W (PoE+)

Physical

Product Dimension (L×W×H) or (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

|	
Product Certifications	CE, FCC, RoHS, IP67, IK10, UL

ORDERING INFORMATION

VT231-A230-A061	HD Megapixel IR IP PTZ Dome Camera, 2MP, 30X, 1/1.9" CMOS, Day/night, H.265/H.264/M-JPEG, With audio alarm, Outdoor, Bracket mount, PoE/24VDC/24VAC

Accessories

Mount

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

Power Supply

N3922-24D-3	AC to DC Power Supply, Plug-In, 230VAC, Output 24VDC, 3A
N3922-24A-3	AC to AC Power Supply, Plug-In, 230VAC, Output 24VAC, 3A
N3922-75P-2	Smart POE Injector, 100VAC-240VAC input, 75W output

DIMENSIONS

Ø9.04(229.6)

14.6(370.4)

R3.5(89.0)
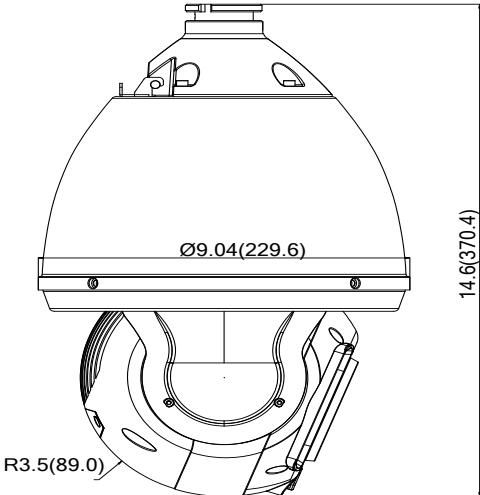
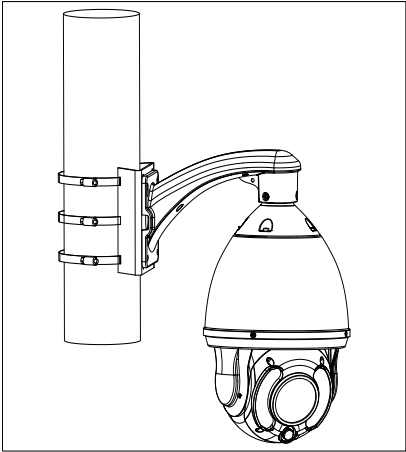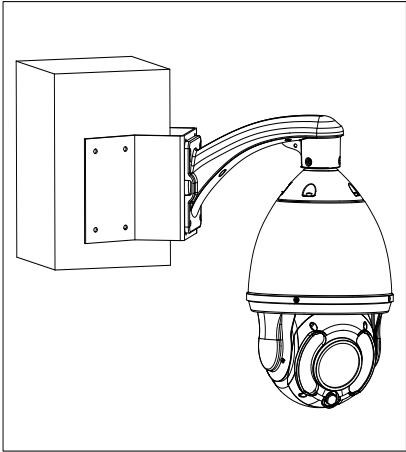(Unit: inch, in the parentheses is mm)

MOUNTING
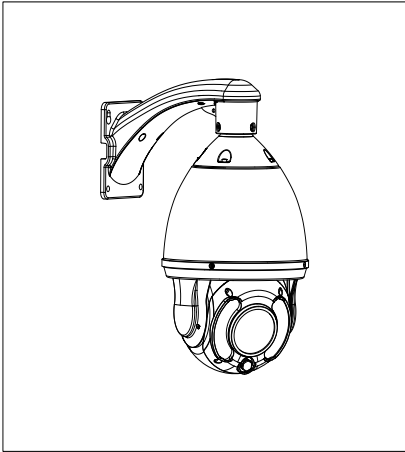
Wall mounting

Pole mounting

Corner mounting