VT230-A2 SERIES

HD 2MP SMART STARLIGHT WDR IR IP PTZ DOME CAMERA

Infinova®

2.0 Mega Pixels	1/2.8" CMOS	H.264 M–JPEG	H.265 M–JPEG	Three Video Streams	ONVIF	http:// Web Server
Day & Night						

FEATURES

- Inbuilt 33X HD integrated camera module
- 1/2.8" 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 132dB
- HD network video output: 1920x1080@60fps
- Features smart functions and achieves border protection (wire cross and intrusion supported)
- Supports intelligent tracking
- H.265+M-JPEG or H.264+M-JPEG video encoding, three video streams
- Supports dual SD card
- Supports alarm recording and alarm snapshots
- Bi-directional audio, G.711a/G.711u/G.726/AAC standard optional
- 2 alarm inputs and 1 alarm
- Supports motion detection, up to 4 areas
- 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) for which 8 regions can be divided

- 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 & Profile T
- Provides standard SDK, easy to integrate with third platform
- Supports RS485 control and analog video output for easy debugging
- Outdoor type reaches IP67 protection, an inbuilt heater and air circulation system to avoid icing
- Rugged designed (IK10)
- Supports remote network upgrade

DESCRIPTION

VT230-A2 series is high-definition smart IP dome camera that supports 1920x1080@60fps HD network video output. It adopts H.265/H.264/M-JPEG encoding and its output provides excellent definition and color revivification degree which enables the acquisition of rich and accurate details so as to effectively guarantee smart analysis accuracy.

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.

VT230-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	1/2.8" Sony progressive scanning CMOS
Optical Zoom	33X
Digital Zoom	12X
Focal Length	f=4.6~152mm
Iris	F1.6~F5.5
Focus	Auto/Manual
FOV(H/V/D)	-
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@1920×1080 Minor stream: H.264/H.265- 30fps@1920×1080 Third stream: M-JPEG- 5fps@1920x1080
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 132dB

Exposure	Auto/Manual/Shutter
Sensitivity	Color mode: 0.001 lux @ F1.6 (AGC ON) B/W mode: 0.0001 lux @ F1.6 (AGC 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	-
Wave Length	-
Night Vision Distance	-
Temperature Measurement	
Screening	-
Function	-
Measurement	-
Measurement Distance	-
Measurement Range	-
Accuracy	-

TECHNICAL SPECIFICATIONS

Smart Analytics

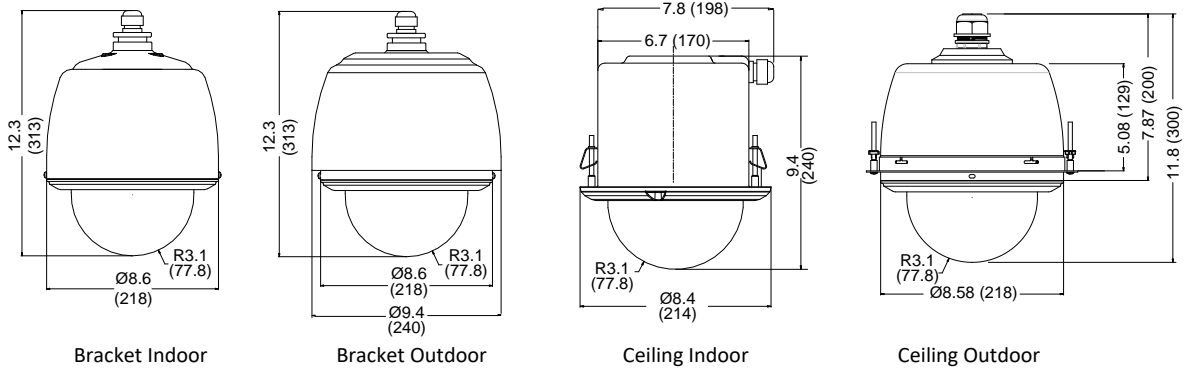|	
Video Analytics	Motion detection- Up to 4 detection regions Smart Video Analysis- Wire cross, area intrusion Intelligent Tracking- Rule-triggered tracking and manual-triggered tracking

Storage

Storage Slots	Supports Single card
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, HTTP, HTTPS, TSL, SSL, QoS, PPPoE, DNS, DDNS, ARP, ICMP, UPnP, IP filter
IP Address Filtering	Support blacklist and whitelist filtering
Network Delay	<160ms

Environmental

Anti-Static	Air discharge 9KV, Contact protection 7KV
Surge Protection	±6KV
Operating Temperature	-40°F ~ +158°C (-40°C ~ +70°C) (outdoor) -4°F ~ +140°C (-20°C ~ +60°C) (PoE+, outdoor)
Storage Temperature	-4°F~158°F (-20°C~70°C)
Operating Humidity	≤95% RH
Environmental Rating	IP67
Impact Resistance	IK10

Mechanical

Manual Speed	Pan: 0.01° ~800°/s; Tilt: 0.01° ~ 240°/s
Preset Speed	Up to 500°/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	24VAC: 35W (outdoor) 24VDC: 33W (outdoor) PoE+: 25W (max.)

Physical

Product Dimension (L×W×H) or (H x D)	Indoor bracket: 12.3"×Φ8.6" (313mm×Φ218mm) Indoor ceiling: 9.4" × Φ8.4" (240mm× Φ214mm) Outdoor bracket: 12.3"×Φ9.4"(313mm×Φ240mm) Outdoor ceiling: 11.8"×Φ8.6" (300mm×Φ218mm)
Package Dimension (L x W x H)	19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
Unit Weight	Indoor bracket: 8.38lbs. (3.8kg); Indoor ceiling: 6.79lbs. (3.08kg) Outdoor bracket: 9.44lbs. (4.28kg) Outdoor ceiling: 9.04lbs. (4.1kg)
Shipping Weight	Indoor bracket: 14.2lbs. (6.45kg); Indoor ceiling: 12.02lbs. (5.45kg) Outdoor bracket: 15.87lbs. (7.2kg) Outdoor ceiling: 15.04lbs. (6.82kg)

Certifications

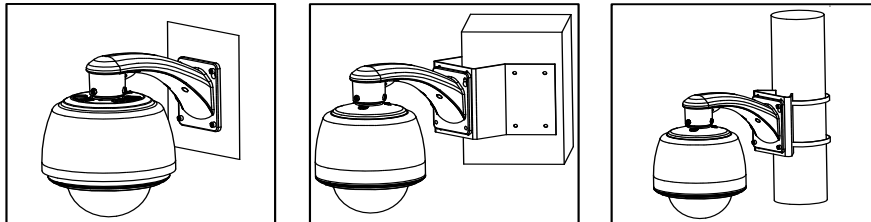|	
Product Certifications	CE, FCC, RoHS, IP67, IK10, UL

ORDERING INFORMATION

VT230-A233-B031	HD IP dome cameras, 2.0MP, 33X, 1/2.8" CMOS, day/night, H.265/H.264/MJPEG, with audio & alarm, indoor, ceiling mount, PoE+/24VDC/24VAC
VT230-A233-B041	HD IP dome cameras, 2.0MP, 33X, 1/2.8" CMOS, day/night, H.265/H.264/MJPEG, with audio & alarm, outdoor, ceiling mount, PoE+/24VDC/24VAC
VT230-A233-B051	HD IP dome cameras, 2.0MP, 33X, 1/2.8" CMOS, day/night, H.265/H.264/MJPEG, with audio & alarm, indoor, bracket mount, PoE+/24VDC/24VAC
VT230-A233-B061	HD IP dome cameras, 2.0MP, 33X, 1/2.8" CMOS, day/night, H.265/H.264/MJPEG, 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	
N3922-75P-2	Smart POE Injector, 100VAC-240VAC input, 75W output

DIMENSIONS

Bracket Indoor

Bracket Outdoor

Ceiling Indoor

Ceiling Outdoor

(Unit: inch, in the parentheses is mm)

MOUNTING

Wall mounting

Corner mounting

Pole mounting