VT231-A222-A Series

2.0 Megapixel Starlight WDR Intelligent IR IP Dome Camera

Infinova®
The Integrator's Manufacturer

2.0 | 2.0 Mega Pixels | 1/1.9" CMOS | H.265 M–JPEG | H.264 M–JPEG | Day & Night | Three Video Streams | http:// Web Server

- Inbuilt 22X 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: 0.0001 lux
- 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 150m
- 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@30fps
- Features smart functions to achieve border protection (wire cross, intrusion)
- H.265+M-JPEG or H.264+M-JPEG video encoding, three streams
- Supports embedded storage/NAS storage
- Supports alarm recording and alarm snapshots
- Bi‐directional audio, G.711-A/G.711-U/AAC standard optional
- Two alarm inputs and one alarm output
- Supports motion detection, 4 detecting areas dividable
- Supports multiple alarm-triggered ways, such as IO input, network disconnected, motion detection, smart detection, heartbeat loss, etc.; supports flexible alarm associated configurations, such as I/O output, email, FTP picture-uploading, audio and TF card recording
- Supports Local 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 standards
- Standard SDK, easy to integrate with other digital system
- Supports RS485 control and analog video output for easy debugging

- Supports Auto-Flip
- Outdoor type reaches IP66 protection rate, inbuilt a heater and air circulation system to avoid icing
- Supports remote network upgrade

VT231-A222-A series is our newly introduced high definition infrared network dome camera that supports 1920×1080@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.

This product adopts large power LED infrared lamps, infrared wave length 850nm, long night vision distance up to 150m, 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-A222-A series dome cameras also feature general dome functions such as preset, pattern, autopan, autoscan, time tour and normal tour.

Technical specifications

Lens

Optical Zoom	22X
Digital Zoom	16X
Image Sensor	1/1.9" Sony progressive scanning CMOS sensor
Aperture/Focal Length	F1.5~F3.4, f=5.11~112.42mm
Angle of View	70° (Wide) ~ 3.76° (Tele)
Min. Work Distance	0.3m (Wide) ~ 1.9m (Tele)
Shutter	Auto, Manual (PAL: 1/25-1/32000; NTSC: 1/30-1/32000s)
DSS	Available
Day/Night Switch	ICR- Automatic removable IR cut filter
Sensitivity	Color mode: 0.001 lux @ F1.5 (AGC ON); B/W mode: 0.0001 lux @ F1.5 (AGC ON) 0 lux (IR ON)

Video

Compression	H.265 /H.264 switchable M-JPEG independent encoding
Encoding Capability	1080P@30fps+720P@30fps+MJPEG1080P@5fps

Audio

Compression	G.711-A/G.711-U/AAC
Sampling rate	8KHz (for G.711-A/G.711-U) 16KHz, 32KHz, 44KHz or 48KHz (for AAC)
Port	1 input, linear level, impedance: 1kΩ 1 output, linear level, impedance: 600Ω

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, BLC, Exposure Control, AGC, White Balance, Hue, HLC
S/N Ratio	> 55dB
Noise Reduction	3D
Defog	Available
Stabilization	Available
Mirror	Horizontal, vertical
Backlight Compensation	Available
Light Restrain	Available
Privacy Mask	Up to 4 privacy areas
ROI	Up to 8 regions
Smart Video Analysis	Wire cross, area intrusion
Timing Function	Timing snapshot, timing recording

Storage

Inbuilt	Supports dual Micro SD/SDHC/SDXC card slot (max. 256GB); able to store snapshots and recordings (supports alarm recording/snapshot)

Alarm

Port	2 alarm inputs, 1 switching value output
Input	I/O input, network disconnecting, motion detection, video tampering, smart alarm, storage card out, heartbeat loss
Link	I/O output, email, FTP picture uploading, audio, TF card recording

IR Lamp

Wave Length	850nm
Night Vision Distance	150m

Pan/Tilt Functions

Preset	1024
Pattern	12
Autopan	12
Normal Tour	16 groups (each tour can link to 14 acts for which you can select among Presets 1~32, Patterns 1~4 and Autopans 1~4)
Home Return	Available
Timing Tour	Available
Autoscan	Available
Motion Detection	4 areas
Area Zoom	Available

System Functions

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
Security	Password Protection
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 (V3), SMTP, NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, QoS, PPPoE, IEEE 802.1X, DNS, DDNS, ARP, ICMP, UPnP

Mechanical

Manual Horizontal Speed	0.1° ~ 180°/s
Manual Vertical Speed	0.1° ~ 140°/s
Preset Speed	Up to 245°/s
Horizontal Scan Angle	360° continuous scanning
Vertical Scan Angle	-4° ~ 90°
Preset Accuracy	<0.1°
Electric Motor	Stepping motor

Electrical

Power Supply	24VAC/24VDC self-adaptive
Power	<17W (idle state) <63W (max., heater on, IR lamp manually adjusted to maximum)

Reliability

Anti-Static	±8KV
Surge Protection	±4KV

Environmental

Operating Temperature	-40°F ~ +140°F (-40°C ~ +60°C)
Operating Humidity	0 ~ 95%RH (non-condensing)
Mounting	Wall, pole and corner mount

Physical

Product Dimension (H x D)	H14.56" × Φ9.04" (H370mm × Φ229.6mm)
Package Dimension (L x W x H)	19.09"×11.02"×11.81" (485mm×280mm×300mm)
Product Net Weight	12.79 lbs (5.8kg)
Shipping Weight	16.76 lbs (7.6kg)

Certifications and Approval

Product Certifications	CE[1], FCC[2], IP66[3], IK10[4], ONVIF Profile S & G

Certificate No.: [1]RSZ151218006-01; [2]RSZ151218006-00; [3]TRS16060020; [4]EM160622016RE001
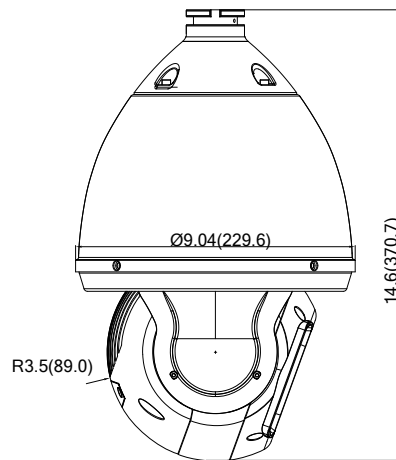
Ordering information

VT231-A222-A361   HD IR IP dome cameras, 2.0M, 22X, 1/1.9" CMOS, day/night, H.265/H.264/MJPEG, with audio alarm, outdoor, bracket mount, 24VDC/24VAC
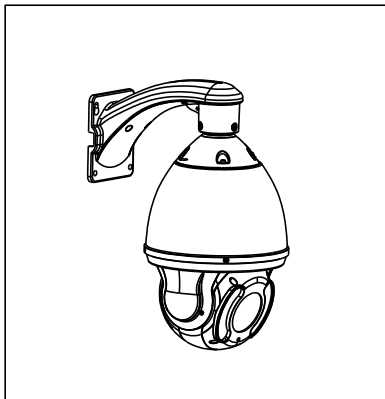
Accessories

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

Dimensions

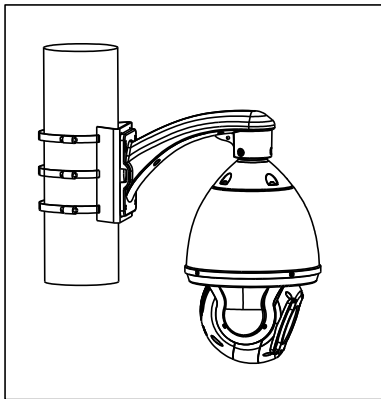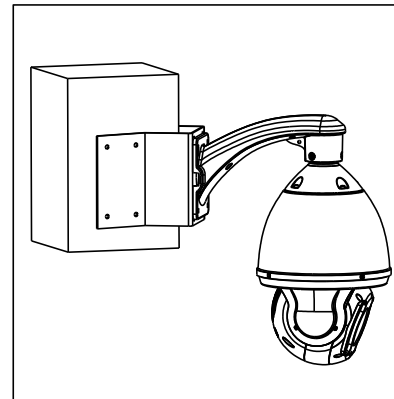Ø9.04(229.6)

14.6(370.7)

R3.5(89.0)

(Unit: inch, in the parentheses is mm)

Mounting

Wall Mounting

Pole Mounting

Corner Mounting