VS231-P2 Series





















- 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 frame integration WDR, with dynamic range up to 120dB
- Inbuilt efficient infrared lamps of 850nm wave length to ensure stable long-term use and reduce maintenance cost
- Night vision distance up to 300 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
- H.265/H.264/M-JPEG video encoding, quad video streams
- Features rich smart functions:
 - 5 video anomaly detection: camera tampering, high brightness, low brightness, video loss and color cast
 - 10 behavior-analysis detection: motion detection, wire crossing detection, intrusion detection, loitering detection, object abandoned detection, object lost detection, abnormal sound detection, crowd detection, fast moving detection, and fighting detection
 - · 1 statistics detection: crowd density detection
 - 3 feature detection: face detection, vehicle detection, and human body detection
- Supports deep-learning based face detection, face tracking and capturing
- Supports snapshots priority selection and duplicate deletion as per the face angle and the image definition so as to ensure the captured images can be recognized and reduce the number of the invalid images to upload to the server
- Supports image matting to provide small face image or large panoramic images to be uploaded to the platform for secondary

- analysis and retrieval
- Able to detect human face when tilting up or down ±20°, turning right or left ±40°, or leaning right or left ±30°
- Able to detect human face with the minimum pupil distance of 20 pixels
- Able to detect 32 human faces simultaneously in a scene
- Effectively cover the width of major entrance/exit up to 8m, greatly reducing the deployment cost
- Supports intelligent exposure on faces
- Supports intelligent tracking
- Supports embedded storage/NAS storage
- Bi-directional audio, G.711-A/G.711-U/AAC standard optional
- Two alarm inputs and one alarm output
- Supports multiple ways to trigger alarms, such as I/O input, intelligent detection, SD card removal, SD card full, network disconnection, heartbeat loss, etc.; supports flexible alarm associated configurations, such as I/O output, email, FTP uploading, audio, SD card recording, SD card snapshot, alarm info push and PTZ tracking; supports arming by
- Supports Region of Interest (ROI), 8 regions dividable
- Supports preset, autopan, pattern, autoscan, timed tour, normal tour, scene tour, power-on return, etc.
- Allows multiple users to perform live access and parameters settings via Web Server
- Compatible with Infinova digital video surveillance software and convenient to integrate with other video surveillance software
- Standard SDK, easy to integrate with other digital system
- Supports ONVIF Profile S & Profile G standard
- Supports State Frome 3 standard
 Supports RS485 control and analog video output for easy debugging
- IP66 protection rate, inbuilt a heater and air circulation system to avoid icing
- Supports water-proof breather valve
- Rugged designed (IK10)
- Supports remote network upgrade

Technical specifications

IR Lamp

Wave Length Night Vision Distance 850nm

reclinical specifications			
Lens		Pan/Tilt Functions	
Optical Zoom	30X	Preset	1024
Image Sensor	30X (-A): 1/1.9" CMOS; 30X (-C): 1/2" CMOS	Pattern	12
Aperture/Focal Length	F1.6~F4.7, f=4.3~129mm	Autopan	12
Angle of View	58.71° (W) ~ 2.15° (T)	Autopan	
Min. Work Distance	0.01m (Wide) ~ 1.5m (Tele)	Normal Tour	16 groups (each tour can link to 14 actions, optional with Presets 1~32, Patterns 1~4 and Autopans 1~4)
	>62dB	Home Return	Available
S/N Ratio			
Shutter	Auto, Manual (1/1-1/32000)	Timing Tour	Available
DSS	Available	Autoscan	Available
Day/Night Switch	ICR	Area Zoom	Available
Sensitivity	30X (-A):	System Functions]
	Color mode: 0.001 lux @ F1.6 (AGC ON);	Operating System	Windows XP, Win7, or Win8
	B/W mode: 0.0001 lux @ F1.6 (AGC ON); 0 lux (IR ON)	Browser	IE8, IE9, IE10, IE11
	30X (-C):	Access Protocol	ONVIF Profile S& Profile G, Infinova CGI2.7
	Color mode: 0.0003 lux @ F1.6 (AGC ON); B/W mode: 0.0001 lux @ F1.6 (AGC ON); 0 lux (IR ON)	Web Server	Available
Video	by w mode. 0.0001 lax @ 11.0 (Ade oly), o lax (in oly)	Remote Upgrade	Available
Compression	H.265/H.264/M-JPEG	Password Protection	Available
·	, ,	Black & White List	Available
Encoding Capability	H.265/H.264 -60fps@1920×1080	RS485 Port	Supports 1*RS485
Multiple Ctupens	•	Analog Video Output	Supports 1*BNC port
Multiple Streams	Quad video streams	IP	
Network Delay	160ms	Port	1*RJ45 10/100M self-adaptive Ethernet port
Audio	0 1/0 1/110	Protocol	IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP (V3), SMTP,
Compression	G.711-A/G.711-U/AAC		NTP, RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, QoS,
Sampling rate	8KHz (for G.711-A/G.711-U)		PPPoE, DNS, DDNS, ARP, ICMP, UPnP
Port	16KHz, 32KHz, 44.1KHz or 48KHz (for AAC) 1 input, linear level, impedance: 1kΩ	Mechanical	
ruit	1 output, linear level, impedance: 600Ω	Manual Speed	Pan: 0.01° ~1000°/s; Tilt: 0.01° ~ 300°/s
Camera	1 output, inter level, impedance. ooosi	Preset Speed	Up to 400°/s
White Balance	Auto/Manual/Outdoor	Rotation Angle	Pan: 360°; Tilt: -4° ~ 90° (auto-flip)
WDR	Supports multi-frame composite pattern wide dynamic	Preset Accuracy	<±0.1°
WDIX	with a range up to 120dB	Electric Motor	Stepping motor
Video Adjustment	Brightness, contrast, saturation, chroma, sharpness	Electrical	
Noise Reduction	3D		PoE+ (IEEE802.3at type2 Class4, power over pairs
Defog	Available	Power Supply	1/2(-), 3/6(+), 4/5(+) and 7/8(-))/ 24VAC (-25%~+35%) /
EIS	Available		24VDC (±35%) self-adaptive
Mirror	Horizontal, vertical		<17W (idle state)
BLC	Available	Danner	<55W (max., heater on, IR lamp manually adjusted to
HLC	Available	Power	maximum)
Privacy Mask	Up to 4 privacy areas		<50W (PoE+)
ROI	Up to 8 regions	Reliability	
Smart Video Analys		Anti Ctatia	Air discharge 14KV
	n: camera tampering, high brightness, low brightness,	Anti-Static	Contact protection 8KV
video loss and color cast		Surge Protection	±8KV
Behavior-analysis detection: motion detection, wire crossing detection,		Environmental Rating	IP66
intrusion detection, loitering detection, object abandoned detection, object lost		Impact Resistance	IK10
detection, abnormal sound detection, crowd detection, fast moving detection,		Environmental	
and fighting detection;			-49°F ~ +158°F (-45°C ~ +70°C) (outdoor)
Statistics detection: crowd density detection;		Operating Temp.	-4°F ~ +140°F (-20°C ~ +60°C) (PoE+, outdoor)
Feature detection: face detection, vehicle detection, and human body detection Supports deep-learning based face detection, tracking and capturing;		Operating Humidity	0 ~ 90%RH (non-condensing)
Supports snapshots priority selection and duplicate deletion;		Mounting	Wall, pole and corner mount
Supports image matting to provide small face image or large panoramic Images		Physical	van, pore and corner mount
to be uploaded to the platform for secondary analysis and retrieval;		Product Dimension	
Supports intelligent exposure on faces;		(H x D)	14.6" × Ф9.04" (370mm × Ф229.6mm)
Supports intelligent tracking;		,	19.09" × 11.02" × 11.81" (485mm × 280mm ×
Storage		Package Dimension	19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)
Internal Storage	Supports dual cards, compatible with Micro	(L x W x H) Unit Weight	,
Alarm	SD/SDHC/SDXC card (single card up to 256GB)	-	12.79 lbs (5.8kg)
Alarm	2 class in the 4 cm/sff and	Shipping Weight Certifications and A	16.76 lbs (7.6kg)
Port	2 alarm inputs, 1 on/off output		**
Input	I/O input, smart analysis, SD card removal, SD card	Product Certifications	CE, FCC, IP66, IK10, UL
Link	full, network disconnection, heartbeat loss I/O output, email, FTP picture uploading, audio, SD		
Link	card recording, SD card snapshot, alarm info push, PTZ		
	tracking		
IR Lamp	-		

Descriptions

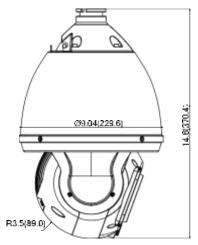
Based on deep-learning algorithm, VS231-P2 series HD IR IP dome camera is specially designed for intelligent face capturing and recognition. The camera has a built-in HD integrated camera module, utilizes large size progressive scanning CMOS sensor and has an internal 30X optical zoom lens. It provides high quality video with the resolution up to 1920x1080@60fps, adopts H.265/H.264/M-JPEG compression formats, outputs four video streams 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.

The camera has rich smart functions, including face detection, face capturing, etc. Face detection acts as an alarm event to trigger the image capturing for whole scene picture and human face picture and upload these pictures to Infinova's V2233 Intelligent Platform for secondary recognition and analysis.

The camera adopts large power LED infrared lamps, with infrared wave length of 850nm, covering up to 300m for night view. 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.

VS231-P2 can be widely used in city surveillance, road monitoring, entrance surveillance for subways, shopping mall/supermarket and large venues, crowded places like train stations/airports and other demanding applications.

Dimensions



(Unit: inch, in the parentheses is mm)

Ordering information

VS231-P230-A061 HD IR IP dome camera, intelligent face capture,

starlight, WDR, 2.0M, 30X, 1/1.9" CMOS, day/night, H.265/H.264/MJPEG, with audio alarm, outdoor,

bracket mount, PoE/24VDC/24VAC

VS231-P230-C061 HD IR IP dome camera, intelligent face capture,

starlight, WDR, 2.0M, 30X, 1/2" CMOS, day/night, H.265/H.264/MJPEG, with audio alarm, outdoor,

bracket mount, PoE/24VDC/24VAC

LAS60-57CN-RJ45-F PoE power sourcing equipment, 100-240VAC inputs,

60W output

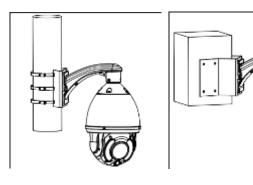
Accessories

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

Mounting



Wall mounting



Pole mounting

Corner mounting