VS231-P2 SERIES

HD 2MP SMART STARLIGHT IR IP PTZ DOME CAMERA





FEATURES

- The chip is integrated with TPU module, and supports video structuration function based on deep learning algorithm.
- HD network video output: 1920x1080@60fps
- Built-in 30X HD integrated camera module
- 1/2"Large area progressive scanning CMOS sensor
- Ultra-low illumination: 0.0003 lux
- 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 150 meters
- The infrared power is adjusted automatically based on dome drive zooming or manually to optimize the night vision fill-in light effects
- H.265/H.264/M-JPEG/SVC video encoding, quad video streams
- Features rich smart functions such as video anomaly detection, behaviour-analysis detection, sound detection, statistics detection, intelligent grouping detection
- Support multi-target detection, tracking and snapshot; support optimum selection and duplicate removal for captured structurized images; small face images and panoramic images are optional to be uploaded to platforms for secondary analysis and retrieval

- Support structurized object attributes: able to detect face, pedestrian, motor vehicle and non-motor vehicle.
 Supports vehicle-pedestrian mode and vehicle mode such as Face attributes, Pedestrian attributes, Motor vehicle attributes, non-motor vehicle attributes
- Supports the simultaneous output of vehicle panorama, vehicle details and license plate.
- 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 face images with a minimum of 30*30 pixels at 1080P
- Able to detect 32 target objects simultaneously in a single scene
- Up to 8 ROI (Region of Interest) areas.
- Onvif Profile S & G and RTSP compliant
- Supports preset, autopan, pattern, autoscan, timed tour, normal tour, scene tour, power-on return, etc.
- 2 alarm inputs, 1 on-off output
- Micro SD card
- Supports water-proof breather valve
- IP66 environmental rating for outdoor use
- IK10
- UL

DESCRIPTION

Based on deep-learning algorithm, VS231-P2 series HD IR IP dome camera is endowed with vivid smart functions and video structuring functions such as face detection, pedestrian detection, motor vehicle detection and non-motor vehicle detection. It's able to output target attributes and images to the backend platform for big data analysis, which effectively reduces loads and costs of smart analysis and handling that the control platform bears. The camera can also connect to Infinova' s smart structurized big-data platform seamlessly. Standard http protocol and SDK are provided to connect to the third-party platform.

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 /SVC 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 adopts large power LED infrared lamps, with infrared wave length of 850nm, covering up to 150m 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.

TECHNICAL SPECIFICATIONS

Lens (Visible)	L	.en	s (Vi	si	b	e)
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Image Sensor	1/2" 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- 56.3°-2.2° V- 32.9°-1.2° D- 63.3°-2.5°				
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@1920×1080 Third stream: H.264/H.265 -30fps@384×256 Fourth stream: H.264/H.265 -30fps@384×256 Major stream: H.264/H.265 -60fps@1920×1080 Minor stream: H.264/H.265 -30fps@1920×1080 Third stream: MJPGE -30fps@1920×1080 Fourth stream: H.264/H.265 -30fps@384×256				
Max. Coding Capacity (Thermal Lens)	-				
Data Rate	VBR/CBR Major stream: 128kbps~10240kbps Minor stream: 128kbps~4096kbps Third stream: 128kbps~512kbps Fourth stream: 128kbps~512kbps				
Video Compression	H.265/H.264/M-JPEG/SVC independent coding				
Multi-Streaming	Four-stream independent output				

Video Rotation	Video can be rotated by 0°, 90°, 180°, 270°
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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 and 48KHz (for AAC)
Audio Interface	1 input, Linear level; 1 output, Linear level
Two-way Audio	Available
Mic & Speaker	-
Image	
Shutter	Auto/Manual (1/1s~1/32,000s)
WDR	Up to 120dB
Exposure	Auto/Manual/Shutter
Sensitivity	Color mode: 0.0003lux (IR OFF); B/W mode: 0.0001lux (IR OFF); 0 Lux (IR ON)
White Balance	Auto/Manual/Outdoor
Video Adjustment	Brightness, contrast, saturation, hue, sharpness
Noise Reduction	3D
S/N Ratio	≥62dB
Defog	Available
EIS	Available
Mirror	Horizontal, Vertical
Corridor Mode	-
Day/Night Switching	ICR
AGC	Auto/Manual
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 $1 \sim 32$, Patterns $1 \sim 4$ and Autopans $1 \sim 4$)
Home Return	Available
Timing Tour	Available
Autoscan	Available
Area Zoom	Available

TECHNICAL SPECIFICATIONS

IR Illumination			overload, direction (front, rear, left, right, left
	Available		front, right front, left rear and right rear).
Smart-IR			
Wave Length	850nm		PTZ tracking - Support human tracking;
Night Vision	150m		Supports capturing human body and human
Distance	13011		face during the tracking process
Temperature Me	asurement	Storage	
Screening	_	Storage Slots	Supports single card
Function		Built-in Storage	Up to 256GB
		NAS Storage	op to 2000B
Measurement	-	_	Aveilable
Measurement	_	Local PC Recording	Available
Distance		Alarm	
Measurement		Alarm Ports	2 alarm inputs, 1 on/off output
Range	-		I/O input, smart analysis, SD card removal, SD
Accuracy	-	Alarm Input	card full with videos, SD card full with images,
Smart Analytics			network disconnection, heartbeat loss
	Video Anomaly Detection - Camera tampering,		I/O output, email, FTP picture uploading, audio,
		Alarm Association	SD card recording, SD card snapshot, alarm
	camera shifting, defocus detection, high	Alami Association	info push
	brightness detection, low brightness detection,	Custom Functions	inio push
	video loss detection, color cast detection, and	System Functions	
	motion detection	Operating System	Win 7 or above versions
	Behaviour Analysis Detection - Wire crossing	Browser	IE8 or above versions
	detection, intrusion detection, object abandoned	Access Protocol	ONVIF Profile S & G, CGI 2.7
	detection, object lost detection, loitering	Multiple Access	Up to 20-ch simultaneous access
	detection, crowd detection, fast moving detection	Web Server	Available
	and target fall detection	Remote Upgrade	Available
	Sound Detection - Abnormal sound detection and	1.0	Available
	fight detection	Password	Available
		Protection	
	Statistics Detection - Counting, density detection,	RS485 Port	Supports, 1*RS485
	queue length detection and dwelling detection	Analog Video Output	-
	Intelligent Grouping Detection - Structurized face	Maximum Number	64, with 3 types of users available:
	detection grouping, behaviour analysis grouping,	of Users	administrator, normal user, and operator
	and people and vehicle coexistence detection	Wiper	-
	grouping, PTZ tracking grouping	Network	
	Multi-object detection - Support face, pedestrian,		
	motor vehicle, and non-motor vehicle detection	Network Interface	1*RJ45 10/100M self-adaptive Ethernet port
	Capture - Support target detail capture		IPv4/IPv6, TCP, UDP, IGMP, ICMP, IGMPv2/3,
	Optimum Selection - Support optimum selection		DHCP, SNMP (V1, V2, V3), FTP, SMTP, NTP,
	and duplicate removal for captured images to	Network Protocols	RTP, RTSP, RTCP, HTTP, HTTPS, SSL, 802.1x,
	deliver the best-quality images		QoS, PPPoE, DNS, DDNS, ARP, UPnP, IP Filter,
	Video Structurization - Support structurized		TLS, Multicast, SIP
		IP Address Filtering	Support blacklist and whitelist filtering
Video Analytics	object attributes:- Face attributes: gender,	Network Delay	<160ms
,	glasses, eyes open, mask, mouth open and facial	Environmental	
	expression (angry, disgusted, fearful, happy, sad,		Ain diash anna 14107 Osmta at musta atian 0107
	surprised or neutral) - Pedestrians attributes:	Anti-Static	Air discharge 14KV, Contact protection 8KV
	gender, age (youth, middle-aged, elderly or	Surge Protection	Differential mode 4KV, common mode 8KV
	teenager), top style (long sleeve, short sleeve,	Operating	-49°F ~ 158°F (-45°C ~ 70°C) (outdoor)
	robe or trench coat, stripe, logo, plaids, matching	Temperature	-4°F ~ 140°F (-20°C ~ 60°C) (PoE+, outdoor)
	or splicing), top color (white, black, red, yellow,	Storage	1°F 140°F (20°0, 60°0)
	grey, blue, green, dark grey or purple), bottom	Temperature	-4°F~140°F (-20°C~60°C)
	style (long pants, shorts, skirt, stripes or	Operating Humidity	≤ 95% RH
	patterns), bottom color (white, black, red, yellow,	Environmental	
	grey, blue, green, dark grey or purple), glasses,	Rating	IP66
	hat, backpack, shoulder bag, holding kids, objects	U U	11/10
		Impact Resistance	IK10
	in hand, protective clothing, safety helmet,	Mechanical	
	direction (front, back, side) - Motor vehicle	Manual Speed	Pan: 0.1° ~1000°/s; Tilt: 0.1° ~ 400°/s
	attributes: Types (car, tricycle, truck, pickup	Preset Speed	Up to 400°/s
	trucks, van, bus), vehicle brands, vehicle body	Rotation Angle	Pan: 360°; Tilt: -4° ~ 90° (auto-flip)
	color (black, blue, brown, green, grey, white, red,	Preset Accuracy	<±0.1°
	yellow, pink, purple, dark grey, silver, orange,	Electric Motor	Stepping motor
	green and other), license plate number, license		
	plate color (yellow, blue, black, white and green),	Electrical	
	license plate types (small car plate, large car	Power Supply	PoE+ (IEEE802.3at type2 Class4)/ 24VAC/
	plate, new energy vehicle license plate, large		24VDC
	truck or trailer license plate), direction(front, rear,		<17W (Idle state)
		Power Consumption	<55W (Max, Heater on, IR lamp manually
	left, right, left front, right front, left rear and right		adjusted to maximum)
	rear) - Non-motor vehicle attributes: type (bicycle,	Unit Weight	12.79 lbs (5.8kg)
	motorcycle), equipped with umbrella, helmet,		

Physical

Product Dimension (H x D) Package Dimension (L x W x H)

14.6" × Φ9.04" (370.4mm × Φ229.6mm)

19.09" × 11.02" × 11.81" (485mm × 280mm × 300mm)

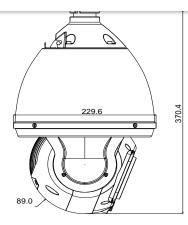
Shipping Weight Certifications Product Certifications 16.76 lbs (7.6kg)

CE, FCC, RoHS, IP66, IK10, UL

ORDERING INFORMATION

VS231-P230-C061	HD Megapixel IR IP PTZ Dome Camera, Intelligent face capture, Starlight, WDR, 2MP, 30X, 1/2" 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



MOUNTING

