VT241-A2 Series



HD 2MP Smart Starlight WDR Laser Integrated IP PTZ Camera System





- Built-in with 30X HD integrated camera module
- 1/2" progressive scan CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- Star-grade sensitivity: 0.0001Lux
- Built-in with laser source, the night illumination distance reaches up to 500m/800m
- Angles of laser beams can be auto-adjusted with the zoom module
- Support multi-frame WDR, up to 120dB
- Resolution up to 1920×1080@60fps
- H.265/H.264/M-JPEG video encoding, four streams
- Features rich smart functions:
 - 5 types of video anomaly detection: camera tampering, high brightness, low brightness, video loss and color cast
 - 10 types of 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 types of feature detection: face detection, vehicle detection, and human body detection
- Support area zoom, image PTZ
- Support image OSD
- With built-in storage card (support dual SD cards)/NAS storage
- Two-way audio, G.711a/G.711u/G.726/AAC
- 2 alarm inputs, 1 alarm output
- Support multiple ways to trigger alarm: I/O input, network disconnection, motion detection, smart detection, heartbeat loss; support flexible alarm association settings: I/O output, email, FTP upload, audio, SD card snapshot, SD card recording
- Support Region of Interest (ROI), up to 8 areas
- Support real-time access and parameter configuration via Web Server by multiple users simultaneously
- Presets, Auto-Pans, Patterns, Auto-Scan, Timed Tour, Normal Tour and Home Return
- Compatible with Infinova digital video surveillance software, easy to integrate with other video surveillance software
- ONVIF Profile S, G & T complaint
- Standard SDK is provided to be integrated with other digital systems

- Smart motor is provided to auto-lock the camera so as to avoid altering the surveillance direction affected by strong wind or other severe conditions
- Provide extra-precise location information, and the zooming of the lens can be auto-adjusted as per the speed of the camera system
- High strength aluminum-alloy casting, heat and corrosion resistant
 Built-in heater and window defroster for various weather conditions
- Built-in heater and window detroster for various weather conditions
 Operational in 144km/h wind conditions, withstanding wind velocity of up to 208 km/h
- IP66 environmental rating
- Upgrade online

Embedded with auxiliary laser source and 30X HD integrated camera module, the HD laser Integrated IP PTZ camera system features with wide surveillance range, long distance, high resolution, high frame rate, high S/N ratio and high sensitivity, applicable for urban security surveillance, highway monitoring and other occasions requiring strict surveillance demands. The inbuilt laser source ensures a night vision distance of 500m or 800m. The camera supports H.265/ H.264/M-JPEG encoding and video preview and control of quad video streams. The embedded 30X HD integrated camera module delivers a resolution up to 1920×1080@60fps.

The camera supports 360° auto-pan and +40°~-80° vertical rotation for panoramic surveillance. The front of the camera adopts windscreen, which achieves better transmittance compared with the arc-shaped clear bubble of the high-speed dome, preventing video definition reduction due to refraction. The camera can lift higher than the high-speed dome, thus the view range is much further. The panning range is 0.5°~100°/s, and the tilting is 0.5°~60°/s. When calling presets, the max. panning speed reaches up to 100°/s and max. tilting speed to 60°/s

The camera supports defrosting and defogging and boasts of excellent waterproof features and high and low temperature resistance. It has rugged structure and full-sealing enclosure, supporting IP66 environmental rating. The PTZ camera is able to provide weather-proof and long-term service in various harsh environments like highway and tunnel-bridge.

Technical specifications

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Lens		Wavelength	860±5nm
Optical Zoom	30X, 12X Digitial Zoom	MTBF	6 Years
Image Sensor	1/ 2" Sony progressive scanning CMOS	Functions	
Aperture/	F1.6~F4.8, f=5.5~210mm	Programmable	1034
Focal Length		Presets	1024
Field of View	58.71°(Wide)~ 2.15°(Tele)	Programmable	12
Min. Work Distance	0.01m (Wide) ~ 1.5m (Tele)	Patterns	12
S/N Ratio	>62dB	Programmable	12
Electronic Shutter	Auto/Manual (PAL: 1/1s-1/32000s)	Auto-pans	
DSS	Available	Normal Tours	16 (each tour associates with 14 actions, optional
Day/Night Switch	ICR	Home Return	with Preset 1~32, Pattern 1~4, AutoPan 1~4) Available
Sensitivity	Color mode: 0.0003lux @F1.6 (AGC ON) B/W mode: 0.0001lux @F1.6 (AGC ON)	Timed Tours	Available
Video	B) W IIIode. 0.00011dx @F1.0 (AGC ON)	Auto Scan	Available
video	H.265 /H.264 switchable	Area Zoom	Available
Compression	M-JPEG independent encoding	System Functions	
	H.264/H.265-60fps@1920×1080 +	Operating System	Windows XP, Win7, Win8
Max. Encoding	H.264/H.265-30fps@1920×1080 +	Browser	IE8, IE9, IE10, IE11
Capacity	MJPEG-30fps@1920×1080 +	Access Protocols	ONVIF Profile S, G and T, Infinova CGI2.7
	H264/H265-30fps@720x480	Web Server	Available
Multi-Stream	Four streams independent outputting	Online Upgrade	Available
Network Delay	140ms	Password	Available
Audio	0.744 A 10.744 I I 10.726 A 12	Protection	
Compression	G.711-A/G.711-U/G.726/AAC	Black & White List	Available 1 ob BS 485
Sampling Rate	8KHz (for G.711-A/G.711-U/G.726) 16KHz, 32KHz, 44.1KHz or 48KHz (for AAC)	RS485 Port	Available, 1-ch RS485
	1 input, linear level, impedance: 1kΩ	Analog Video Output	Available, 1-ch BNC port
Ports	1 output, linear level, impedance: 1600 1	IP	
Camera	2 output, inical level, inspeadilee. ooosi	Network Port	1 RJ45 10/100M self-adaptive Ethernet port
White Balance	AUTO/MANUAL/OUTDOOR		IPv6, TCP, UDP, IGMP, DHCP, FTP, SNMP, SMTP, NTP,
WDR	120dB, multi-frame WDR	Network Protocol	RTP, RTSP, RTCP, HTTP, HTTPS, TSL, SSL, QoS, PPPoE,
Video Adjustment	Brightness, contrast, saturation, hue, sharpness		DNS, DDNS, ARP, ICMP, UPnP
DNR	3D	Mechanical	
Defog	Available	Variable Speed	Pan: 0.5°~100°/s; Tilt: 0.5°~60°/s
EIS	Available	Preset Speed	Pan: 100%s (max.); Tilt: 60%s (max.)
Image Mirror	H-mirror/V-mirror	Preset Accuracy	<±0.1°
AGC	Available	Rotation Angle Electrical	Pan: 360°; Tilt: +40° ~ -85°
BLC	ON/OFF	Power Supply	24VDC (±10%)
HLC Drive ov Mask	ON/OFF	Power	,
Privacy Mask ROI	Up to 4 areas Up to 8 areas	Consumption	80W (max.)
NOI	Abnormal video detections: camera tampering,	Reliability	
	scene change, defocus, low brightness, high	Anti-Static	Contact protection 8KV, Air discharge 9KV
	brightness, video loss, and color cast	Surge Protection	4KV
	Behavior-analysis detections: motion detection,	Environmental	
	wire crossing detection, intrusion detection,	Atmospheric	≤1.5MPa
	loitering detection, object abandoned detection,	Pressure	
	object lost detection, abnormal sound detection, crowd detection, fast moving detection, and	Operating Temp.	-40°F~158°F (-40°C~+70°C) -4°F~158°F (-20°C~+70°C)
	fighting detection	Storage Temp. Operating Humidity	0~95%RH (non-condensing)
	Statistics detections: people counting, density	operating trainiarty	Thermostatically controlled,
Smart Functions	detection, queue length detection, and dwelling	Defroster	Turn on when below 59°F (15°C);
	detection		Turn off when above 68°F (20°C)
	Feature detections: face detection, vehicle	Physical	
	detection, and people detection Support face detection, face tracking and snapshot	Construction	High-strength aluminum alloy, stainless steel
	based on deep learning	Environmental	IP66
	Support snapshots priority selection and duplicate	Rating	
	deletion. Face images or scene images can be	Mounting Window Type	Surface, wall, pole side, corner, pole top HD clear glass
	uploaded to the platform for secondary retrieval	Window Type Window Size	2.32" × 2.32" (59mm×59mm)
	and analysis	Load	Pan: 77.16lbs. (35kg); Tilt: 22lbs. (10kg)
	Support intelligent exposure	Unit Weight	44.09 lbs (20kg)
Storage	6	Shipping Weight	50.7 lbs (23kg)
Internal Storage	Supports dual cards, compatible with Micro	Box Dimensions	, 0,
	SD/SDHC/SDXC card (single card up to 256G)	(L×W×H)	21.49"×8.22"×18.98" (546mm×209mm×482mm)
Alarm	I/O input, motion detection, smart analysis, SD card	Certifications and	Approval
Alarm Input	removal, network disconnection, heartbeat loss	Product	CE, FCC, ISO 9001: 2008
	I/O output, email, FTP upload, audio, SD card	Certifications	02, 1 00, 100 3001. 2000
Alarm Association	snapshot, SD card recording, alarm info push		
Laser Lights	<u>.</u>		
Night Illumination	500m/800m		
Distance			
		-	

Ordering information

VT241-A230-M1 HD 2MPSmart Starlight WDR Laser Integrated IP

> PTZ Camera System (2.0Mpx, 30X optical zoom, day/night, 1/2-inch progressive scan CMOS, H.265/H.264/M-JPEG, Night illumination distance

up to 500m, 24VDC, w/ power adapter)

VT241-A230-M2 HD 2MPSmart Starlight WDR Laser Integrated IP

> PTZ Camera System (2.0Mpx, 30X optical zoom, day/night, 1/2-inch progressive scan CMOS, H.265/H.264/M-JPEG, Night illumination distance

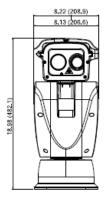
up to 800m, 24VDC, w/ power adapter

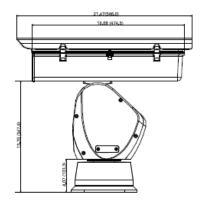
Note: Mounting brackets shall be ordered separately.

Recommended Installation Mounts

V1663-W2: Wall Mount V1663-S2: Pole Side Mount V1663-C2: Corner Mount

Dimensions



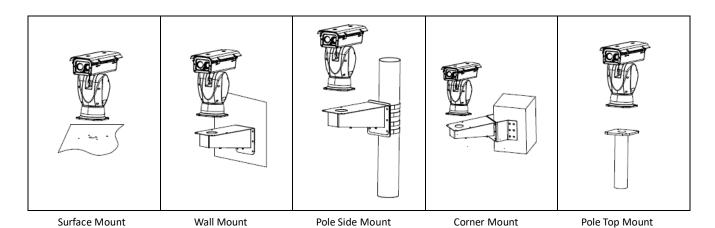


Front View

Side View

(Unit: inch, in the parentheses is mm)

Mounting



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