

# VHA431-A5 SERIES

HD 5MP IR PTZ DOME CAMERA

**Infinova**<sup>®</sup>



## FEATURES

- 1/2.7" progressive scan CMOS
- Optical zoom: 33x
- 5MP, resolution up to 2592x1944@20fps
- Min. illumination Color: 0.003Lux@F1.6
- IR Range: 150m
- H.265+/H.265/H.264+/H.264/MJPEG
- Face recognition/Human & Vehicle Detection
- Auto-tracking
- IP66

# DESCRIPTION

VHA431-A5 Series HD 5MP IR PTZ dome Camera applies 1/2.7-inch CMOS sensor. With H.265+/H.265/H.264+/H.264/MJPEG video compression formats and three stream output, the camera can output high-quality images with resolution up to 2592x1944@20fps, which can not only provide marvelous definition, color restoration and accurate details, but also effectively ensure the intelligent analysis accuracy. With smart IR, IR distance up to 150m.

The camera is endowed with vivid smart functions and supports face recognition, human & vehicle detection.

It 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

<b>Lens (Visible)</b>		<b>White Balance</b>	
Image Sensor	1/2.7" Progressive Scan CMOS	White Balance	Available
Optical Zoom	33X	Video Adjustment	Saturation, brightness, contrast, sharpness, Hue and white balance adjustable by client software or web browser
Digital Zoom	12X	Noise Reduction	3D DNR
Focal Length	f= 4.3mm ~ 142mm	S/N Ratio	42dB
Iris	F1.6	Defog	Available digital defog
Focus	Auto, Manual	EIS	-
FOV(H/V/D)	H: 55°~2.3°; V: 41.6°~1.7°; D:67.9°~2.8°	Mirror	Available
Lens Mount	-	Corridor Mode	-
<b>Lens (Thermal)</b>		Day/Night Switching	ICR
Imager Type	-	AGC	Available
Lens Type	-	BLC	Available
Spectral Band	-	HLC	Available
Pixel Size	-	Privacy Mask	Up to 4 definable zones
NETD	-	ROI	Up to 8 definable zones
Focal Length	-	OSD	Support
FOV	-	<b>Pan/Tilt Functions</b>	
<b>Video</b>		Preset	255
Camera Resolution (Visible Lens)	5MP	Pattern	4
Camera Resolution (Thermal Lens)	-	Autopan	4
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265-20fps@2592x1944, 30fps@2592x1520 Minor stream: H.264/H.265-30fps@1280x720 Third stream: M-JPEG -30fps@640x480	Normal Tour	1
Max. Coding Capacity (Thermal Lens)	-	Home Return	Support
Data Rate	VBR/CBR 8Kbps ~ 8192Kbps	Timing Tour	Support
Video Compression	H.265+/H.265/H.264+/H.264/MJPEG independent coding	Autoscan	Support
Multi-Streaming	Three-stream independent output	Area Zoom	Support
Video Rotation	Video can be rotated by 0°, 180°	<b>IR Illumination</b>	
<b>Audio</b>		Smart-IR	Available
Audio Compression	G.711a/ G.711u	Wave Length	850nm
Sample Rate	8KHz	Night Vision Distance	150m
Audio Interface	1 input, 1 output	<b>Temperature Measurement</b>	
Two-way Audio	Available	Screening	-
Mic & Speaker	-	Function	-
<b>Image</b>		Measurement	-
Shutter	Auto/Manual (1/5 ~ 1/20,000s)	Measurement Distance	-
WDR	Up to 120dB	Measurement Range	-
Exposure	Auto/Manual/Shutter First/Iris First	Accuracy	-
Sensitivity	Color: 0.003 Lux @ (F1.6, AGC ON), B/W:0 Lux with IR	<b>Smart Analytics</b>	
		Video Analytics	Basic Event - Motion detection, alarm input and output Deep Learning Function - Face Recognition, Human & Vehicle Detection, Perimeter Intrusion Detection, Line Crossing Detection, Stationary Object Detection, Crossing Counting, Heat Map Smart Tracking - Auto-tracking

# TECHNICAL SPECIFICATIONS

<b>Storage</b>	
Storage Slots	Supports single card
Built-in Storage	Up to 512GB
NAS Storage	-
Local PC Recording	Available
<b>Alarm</b>	
Alarm Ports	1 input, 1 output
Alarm Input	I/O input, MD, Video Tampering, Sound Detection, FD, PD&VD, PID, LCD, SOD, CC
Alarm Association	Upload to FTP, send email, trigger alarm output, trigger recording
<b>System Functions</b>	
Operating System	Win7 and higher versions
Browser	IE10/11
	Safari V12.1 above
	Firefox V.52 above
	Google chrome V.57 above Edge V.79 above
Access Protocol	Onvif (Profile S, Profile G, Profile T), Http API
Multiple Access	Up to 15-ch simultaneous access
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	1
Analog Video Output	1
Maximum Number of Users	5 User
Wiper	-
<b>Network</b>	
Network Interface	1*RJ45 10/100M self-adaptive Ethernet port
Network Protocols	IPv4/IPv6, HTTP, HTTPS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP/IP, UDP, DHCP, PPPoE

IP Address Filtering	Available
Network Delay	≤200ms
<b>Environmental</b>	
Anti-Static	4KV
Surge Protection	4KV
Operating Temperature	-22°F~149°F (-30°C~+60°C)
Storage Temperature	-22°F~149°F (-30°C~+60°C)
Operating Humidity	≤95% RH
Environmental Rating	IP66
Impact Resistance	-
<b>Mechanical</b>	
Manual Speed	Pan: 0.6° to 200°/s; Tilt: 0.6° to 90°/s
Preset Speed	Pan: 200°/s; Tilt: 100°/s
Rotation Angle	Pan: 360°; Tilt: -10° to 90° (auto flip)
Preset Accuracy	<±0.1°
Electric Motor	Stepper motors
<b>Electrical</b>	
Power Supply	POE+/ 12VDC
Power Consumption	<25.6W
<b>Physical</b>	
Product Dimension (LxWxH) or (H x D)	Ø 206.4 mm × 351.8 mm (Ø 8.13" × 13.85")
Package Dimension (L x W x H)	295mm*290mm*490mm
Unit Weight	Approx. 3.7 kg (8.15lb.)
Shipping Weight	6.5kg
<b>Certifications</b>	
Product Certifications	CE, FCC, IP66

# ORDERING INFORMATION

VHA431-A533-M0	HD IR PTZ dome camera, WDR, Smart, 5.0MP, 33X, 1/2.7" CMOS, day/night, IR distance 150m, H.265+/H.265/H.264+/H.264/M-JPEG, wall mount, 12VDC/POE+
<b>Accessories</b>	
<b>Power Supply</b>	
N3921-12D-1	AC to DC Power Supply, Plug-In, 230VAC, Output 12VDC, 1.5A
N3922-75P-2	Smart POE Injector, 100VAC-240VAC input, 75W output

**\*Note:** - "Confirmation of SD Card installation has to be notified with the Camera Purchase Order. Such confirmation if received on Order Readiness will attract additional cost. Please contact Infinova to know more".