

# VHA421-A20B-M0

HD 2MP WDR IR IP MINI DOME CAMERA

**Infinova**<sup>®</sup>



## FEATURES

- 1/2.8" CMOS sensor
- IR-Cut Removable (ICR) Filter for Day/Night switching
- IR distance up to 30m
- Supports WDR
- Built-in motorized zoom lens, supporting assistant focusing
- Smart functions, such as perimeter intrusion detection, line crossing intrusion, pedestrian & Vehicle detection, face detection, stationary object detection, cross-counting, heat map statistics, crowd density detection, queue length detection.
- H.265 & H.264 video encoding, three streams
- Maximum resolution supports 1920×1080@30fps
- Local PC recording
- Supports SD card storage
- ONVIF Profile S/ G & T compliant
- Supports PoE/12VDC power supply
- IP66 rating

# DESCRIPTION

VHA421-A2 Series HD 2MP WDR IR IP Mini Dome Camera adopts a 1/2.8" progressive scan CMOS sensor and has an internal 2.8-12mm HD motorized zoom lens, together with internal dot matrix LED IR illuminators covering 30m distance.

The camera adopts H.265/H.264 encoding and 3 streams, features high resolution up to 1080P@30fps and provides outstanding color rendition which helps you get richer and more accurate details.

The camera also features multiple smart functions, including perimeter intrusion detection, line crossing intrusion, pedestrian & Vehicle detection, face detection, stationary object detection, cross-counting, heat map statistics, crowd density detection, queue length detection.

The products can be widely used in sites that demand high-definition image quality with no lighting of ordinary buildings, supermarkets, hotels, shops, parks, schools, factories, warehouses, underground parking lots, etc.

# TECHNICAL SPECIFICATIONS

<b>Lens (Visible)</b>		<b>WDR</b>	
Image Sensor	1/2.8" progressive scan CMOS	Exposure	Support
Optical Zoom	4X	Sensitivity	Available
Digital Zoom	4X on IE plug-in	White Balance	Color 0.002Lux @ (F1.2, AGC ON) B/W 0 lux @ IR ON
Focal Length	f=2.8-12mm	Video Adjustment	Auto/Manual
Iris	F1.8 (W) ~ 3.3(T)	Noise Reduction	Brightness, sharpness, saturation, contrast, chroma adjustable
Focus	Manual focus	S/N Ratio	3D
FOV(H/V/D)	H: 101°-33°; V: 52°-18°; D: 124°-37°	Defog	52db
Lens Mount	Φ14	EIS	-
<b>Lens (Thermal)</b>		Mirror	-
Imager Type	-	Corridor Mode	Available
Lens Type	-	Day/Night Switching	Available
Spectral Band	-	AGC	ICR
Pixel Size	-	BLC	Auto
NETD	-	HLC	Available
Focal Length	-	Privacy Mask	Available
FOV	-	ROI	Up to 4 definable zones
<b>Video</b>		OSD	Available
Camera Resolution (Visible Lens)	2MP	<b>Pan/Tilt Functions</b>	
Camera Resolution (Thermal Lens)	-	Preset	-
Max. Coding Capacity (Visible Lens)	Major stream: H.264/H.265-30fps@1920x1080 Minor stream: H.264/H.265-30fps@1280x720 Mobile stream: M-JPEG - 640x480	Pattern	-
Max. Coding Capacity (Thermal Lens)	-	Autopan	-
Data Rate	VBR/CBR Major stream: 256Kbps ~ 8192Kbps	Normal Tour	-
Video Compression	H.265/H.264	Home Return	-
Multi-Streaming	Triple-Stream (Main/Sub/Mobile)	Timing Tour	-
Video Rotation	Video can be rotated by 0°, 180°	Autoscan	-
<b>Audio</b>		Area Zoom	-
Audio Compression	G.711-A/ G.711-U	<b>IR Illumination</b>	
Sample Rate	8KHz	Smart-IR	Available
Audio Interface	1 input (RCA), 1 output (RCA)	Wave Length	850nm
Two-way Audio	Supported	Night Vision Distance	30m
Mic & Speaker	-	<b>Temperature Measurement</b>	
<b>Image</b>		Screening	-
Shutter	Auto/Manual (1/5 ~ 1/20000s)	Function	-
		Measurement	-
		Measurement	-
		Distance	-
		Measurement Range	-
		Accuracy	-

# TECHNICAL SPECIFICATIONS

<b>Smart Analytics</b>	
Video Analytics	Smart Feature - PID (Perimeter Intrusion Detection), LCD (Line Crossing Intrusion), PD/VD (Pedestrian & Vehicle Detection), FD (Face Detection), SOD (Stationary Object Detection), CC(Cross-Counting), HM (Heat MAP Statistics), CD (Crowd Density Detection), QD (Queue Length Detection), Motion Detection Off/On (8 Level)
<b>Storage</b>	
Storage Slots	Supports single card
Built-in Storage	Up to 256GB
NAS Storage	Available
Local PC Recording	Available
<b>Alarm</b>	
Alarm Ports	1 input, 1 output
Alarm Input	I/O input, smart detection, motion
Alarm Association	Email, image upload via FTP, image upload via HTTP, and alarm info push
<b>System Functions</b>	
Operating System	Win 7 and higher versions, Mac IE10 and higher versions
Browser	Safari V12.1 above Firefox V.52 above Google chrome V.57 above Edge V.79 above
Access Protocol	ONVIF (Profile S/G/T)
Multiple Access	Up to 7-ch simultaneous access
Web Server	Available
Remote Upgrade	Available
Password Protection	Available
RS485 Port	Available
Analog Video Output	-
Maximum Number of Users	7
Wiper	-
<b>Network</b>	

Network Interface	1 RJ45 10M/ 100M self-adaptive Ethernet port
Network Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP/RTSP, SMTP, NTP, UPnP, SNMP, HTTPS, FTP
IP Address Filtering	Available
Network Delay	≤200ms
<b>Environmental</b>	
Anti-Static	6KV
Surge Protection	Difference mode: 1.5KV, common mode: 4KV
Operating Temperature	-22°F~140°F (-30°C~+60°C)
Storage Temperature	-22°F~140°F (-30°C~+60°C)
Operating Humidity	≤ 95% RH
Environmental Rating	IP66
Impact Resistance	-
<b>Mechanical</b>	
Manual Speed	-
Preset Speed	-
Rotation Angle	-
Preset Accuracy	-
Electric Motor	-
<b>Electrical</b>	
Power Supply	PoE (IEEE 802.3af Class 0)/ 12VDC IR OFF: <2W(DC)/3W(POE); IR ON: <4W(DC)/6W(POE)
Power Consumption	
<b>Physical</b>	
Product Dimension (LxWxH) or (H x D)	150*109mm
Package Dimension (L x W x H)	180*180*150MM
Unit Weight	962g
Shipping Weight	1.26KG
<b>Certifications</b>	
Product Certifications	CE, FCC, IP66, RoHS

# ORDERING INFORMATION

VHA421-A20B-MO	HD IR Minidome Camera, 2MP, 1/2.8" CMOS, Day/night, 2.8 ~ 12mm motorized lens, IR illumination distance up to 30m, IP66, PoE/12VDC
<b>Accessories</b>	
<b>Power Supply</b>	
N3921-12D-1	AC to DC Power Supply, Plug-In, 230VAC, Output 12VDC, 1.5A
N3922-30P-2	Smart POE Injector, 100VAC-240VAC input, 30W 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".