

vertina

TOTAL SECURITY SOLUTION



EMPOWERED BY INNOVATION



VERTINA COMPANY
















Integrated experience, forward thinking, cutting-edge technology, and an energetic team, all hand in hand have been leading an innovative manufacturer of Digital Video Recorder systems in United Kingdom known as Vertina. Driven by customers' and technological trend, Vertina is emerging as a greatly potential power in the thriving global market of CCTV technology.

Vertina produces a wide range of Stand alone, DVRs, NVRs, Hybrids, Turbo HD and IP cameras that are commercially developed and qualified, In just a few years these various Digital Video Recorders have made it a reality to transform invisible technology into smart tools advantaging people's life throughout the world.

Quality, satisfaction and innovation hold the highest priority in Vertina. To do this, we endeavor to : Create and maintain an environment that encourages new thinking on the part of all employees. Provide our customers with products and services of consistently superior quality. Assure that all orders are delivered to customers complete and on time. Grasp latest trend of the industry by active learning and smooth communication with our competitors and partners .

IP Surveillance Solution

PLATFORM SOLUTION

1: HOME SOLUTION  Home  Office  Shop	2: ECONOMY SOLUTION  Hospital  Retail  School	4: PROFESSIONAL SOLUTION  Factory  Museum  Building	5: INTELLIGENT SOLUTION  Airport  Big Mall  Prison	6: SPECIAL SOLUTION  High Way  Red Light  Special Place
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IP Product Numbering Rule

CAMERA

V N C - 5 3 3 0 Z






























VERTINA	NETWORK	CAMERA	PLATFORM-QUALITY	SENSOR	APPEARANCE	VERSION	OPTION
			1: Home Solution 2: Economy Solution 4: Professional Solution 5: Intelligent Solution 6: Special Solution	1: 1 MP 2: 2 MP 3: 3 MP 4: 4 MP 5: 5 MP 6: 6 MP	1: Box 2: Fixed Bullet 3: Vari-Focal Bullet 4: Fixed Indoor Dome 5: Vari-Focal Indoor Dome 6: Fixed Outdoor Dome 7: Vari-Focal Outdoor Dome 8: Speed Dome 9: Cube	0-9	A-Z

NETWORK VIDEO RECORDER

V N R - 1 6 0 5 P
















VERTINA	NVR	RECORDER	INPUT CHANNEL	ENCODE RATE	OPTION
			4: 4 Channel 8: 8 Channel 16: 16 Channel 32: 32 Channel 64: 64 Channel	01: HD 02: Full HD 03: 3 MP 05: 5 MP	A-Z

IP Product Line Up

VNC-5330 / VNC-5230 3MP & 2MP WDR IR Bullet Network Camera 07		VNC-4360 / VNC-4260 VNC-4160 3MP & 2MP & 1.3MP Mini Dome Network Camera 17		VNC-2281 / VNC-2181 2MP & 1.3MP Network IR PTZ Dome Camera 27	
VNC-5370 / VNC-5270 3MP & 2MP WDR Outdoor Dome Network Camera 08		VNC-4320 / VNC-4220 VNC-4120 3MP & 2MP & 1.3MP IR Bullet Network Camera 18		VNC-6830 4K Smart Bullet Camera 28	
VNC-5350 / VNC-5250 3MP & 2MP WDR Indoor Dome Network Camera 09		VNC-4361 / VNC-4261 VNC-4161 3MP & 2MP & 1.3MP IR Fixed Dome Network Camera 19		VNC-6420 4MP Compact Fisheye Network Camera 29	
VNC-5610 6MP Day & Night Smart Box Camera 10		VNC-2230 / VNC-2130 2MP & 1.3MP VF IR Bullet Network Camera 20		VNC-6610 / VNC-6210 6MP / 2MP Intelligent Traffic System 30	
VNC-5310 3MP Day & Night WDR Box Camera 11		VNC-2270 / VNC-2170 2MP & 1.3MP VF IR Dome Network Camera 21		VNC-6810 8MP Intelligent Traffic System 31	
VNC-4330 / VNC-4230 VNC-4130 3MP & 2MP & 1.3MP VF IR Bullet Network Camera 12		VNC-2261 / VNC-2161 2 MP & 1.3MP CMOS Network Mini Dome Camera 22		VNR-25606 256 Channel Network Storage Device 32	
VNC-4370 / VNC-4270 VNC-4170 3MP & 2MP & 1.3MP VF IR Dome Network Camera 13		VNC-2260 / VNC-2160 2 MP & 1.3MP IR Fixed Dome Network Camera 23		VNR-6406 / VNR-3206 64 / 32 Channel Network Video Recorder 33	
VNC-4322 / VNC-4222 VNC-4122 3MP & 2MP & 1.3MP EXIR Bullet Network Camera 14		VNC-2220 / VNC-2120 2 MP & 1.3MP IR Bullet Network Camera 24		VNR-3205 P VNR-1605 P 32 / 16 Channel Network Video Recorder 34	
VNC-4362 / VNC-4162 3MP & 1.3MP EXIR Turret Network Camera 15		VNC-1291 W VNC-1190 W 2MP & 1.3MP CMOS Alarm Pro Cube Camera 25		VNR-1605 / VNR-805 VNR-405 16 / 8 / 4 Channel Network Video Recorder 35	
VNC-4321 / VNC-4121 3MP & 1.3MP EXIR Bullet Network Camera 16		VNC-4285 / VNC-4185 2MP & 1.3MP Network IR PTZ Dome Camera 26			

HD-TVI Surveillance Solution

PLATFORM SOLUTION

2: HD 720P ECONOMY	3: HD 720P PROFESSIONAL	4: HD 720P LOW LIGHT	5: FULLHD 1080P PRO	6: FULL HD 1080P HI-PRO
				
				
				

HD-TVI Product Numbering Rule

CAMERA

V H C - 2 1 2 0
























V	H	C	-	2	1	2	0
VERTINA	HD-TVI	CAMERA		PLATFORM-QUALITY	SENSOR	APPEARANCE	VERSION 0-9
				2: HD 720p Economy 3: HD 720p Professional 4: HD 720p Low Light 5: Full HD 1080p Pro 6: Full HD 1080p HI-Pro	1: HD 2: Full HD	1: Box 2: Fixed Bullet 3: Vari-Focal Bullet 4: Fixed Indoor Dome 5: Vari-Focal Indoor Dome 6: Fixed Outdoor Dome 7: Vari-Focal Outdoor Dome 8: Speed Dome	

DIGITAL VIDEO RECORDER

V D R - 1 6 0 1

V	D	R	-	1	6	0	1
VERTINA	DVR	RECORDER		INPUT CHANNEL	ENCODE RATE		
				4: 4 Channel 8: 8 Channel 16: 16 Channel 32: 32 Channel	01: HD 02: Full HD		

HD-TVI Product Line Up

VHC-6230 FULL HD 1080p Outdoor Vari-focal EXIR Bullet Camera 37		VHC-4160 Turbo HD 720p EXIR Turret Camera 47		ACCESSORIES: VCU-I200 Network Keyboard 57	
VHC-6270 FULL HD 1080p Vari-focal EXIR Turret Camera 38		VHC-3120 TURBO HD 720p EXIR Bullet Camera 48		ACCESSORIES: VAS-2404P Industrial Managed 24 Port Switch 58	
VHC-6260 FULL HD 1080p EXIR Turret Camera 39		VHC-3160 TURBO HD 720p EXIR Turret Camera 49		ACCESSORIES: VAS-I602 / VAS-I401 Hardened 16 Port Switch 59	
VHC-5230 FULL HD 1080p Vari-focal IR Bullet Camera 40		VHC-2120 Turbo HD 720p IR Bullet Camera 50			
VHC-5221 / VHC-5220 FULL HD 1080p EXIR Bullet Camera 41		VHC-2160 Turbo HD 720p IR Turret Camera 51			
VHC-5270 FULL HD 1080p Vari-focal IR Turret Camera 42		VHC-4280 FULL HD 1080p 30x IR Speed Dome Camera 52			
VHC-5260 FULL HD 1080p IR Turret Camera 43		VHC-2280 / VHC-2180 FULLHD 1080p 23x IR Speed Dome Camera 53			
VHC-4130 Turbo HD 720p Outdoor Vari-focal IR Bullet Camera 44		VDR-3202 / VDR-1602 VDR-802 32 / 16 / 8 Channel Turbo HD Digital Video Recorder 54			
VHC-4120 Turbo HD 720p EXIR Bullet Camera 45		VDR-1601 / VDR-801 VDR-401 16 / 8 / 4 Channel Turbo HD Digital Video Recorder 55			
VHC-4170 Turbo HD 720p Vari-focal IR Turret Camera 46		ACCESSORIES: VHN-K130 Network Keyboard 56			



IP PRODUCTS

SMART IP CAMERA

3MP & 2MP WDR IR Bullet Network Camera

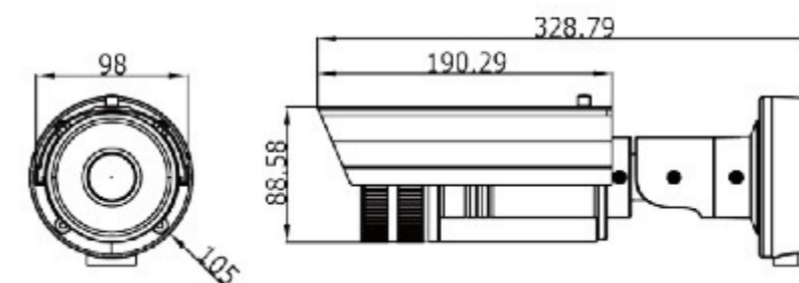
VNC-5330 / VNC-5230



Key Features

- Up to 2048 x 1536 high resolution
- FULL HD1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- On-board storage, up to 64GB
- Smart Focus: Motorized VF lens (Z Series)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater (H Series)
- Defog
- EIS (Electronic Image Stabilization)

Dimensions



Technical Specifications

Model No	VNC-5330	VNC-5230
Image Sensor	1/3" progressive scan CMOS	
Min. Illumination	0.1 lux@F1.2, 0.14 lux@F1.4, 0 lux with IR	
Shutter Time	1s - 1/100,000s	
Slow Shutter	Yes	
Lens	2.8-12mm@F1.4, Angle of view: 91.2°-28.3° (Z Series) : motorized VF Lens 8-20mm	
Auto IRIS	DC drive	
Day & Night	ICR (Auto/Schedule/Alarm Trigger)	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	120dB WDR	
Video Compression	H.264 / MPEG4 / MJPEG	
Video bit rate	32 Kbps - 16 Mbps	
Audio compression	G.711 / G.726 / MP2L2 *only for -S model	
Audio bit rate	64Kbps (G.711) / 16Kbps (G.726) *only for -S model	
Max. resolution	2048 x 1536	1920 x 1080
Frame rate	50 Hz: 20fps (2048 x 1536), 25fps (1920 x 1080) 25fps (1280 x 720) - 60 Hz: 20fps (2048 x 1536) 30fps (1920 x 1080), 30fps (1280 x 720)	
Image settings	Rotate mode, saturation, brightness, contrast grayscale adjust in client software or web browser	
Features	Defog, BLC, EIS	
Picture overlay	128 x 128, BMP 24bit, zone configurable	
Network storage	NAS	
Alarm trigger	Intrusion detection, Defocus detection, Motion detection, Face detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour (SIP optional)	
Security	User authentication, watermark, IP address filtering, anonymous access, reset	
System compatibility	ONVIF, PSIA, CGI	
Communication interface	1 RJ45 10M / 100M ethernet port	
On-board Storage	Built-in Micro SD/SDHC/SDXC slot, up to 64 GB	
Reset button	Yes	
Operating conditions	-30°C - 60°C (-22°F - 140°F), humidity 95%	
Power supply	12 VDC ± 10%, PoE (802.3af)	
Power consumption	Max. 12W -Z/-H: Max. 13W	
IR range	Up to 30m - Up to 80m IR with 8-20m VF lens	
Ingress protection	IP66	
Dimensions	98 x 105 x 328.8 mm	
Weight	1700 g (3.75 lbs)	

* (Z SERIES) Smart Focus: Motorized VF lens (optional)

* (H SERIES) Heater

SMART IP CAMERA

3MP & 2MP WDR Outdoor Dome Network Camera

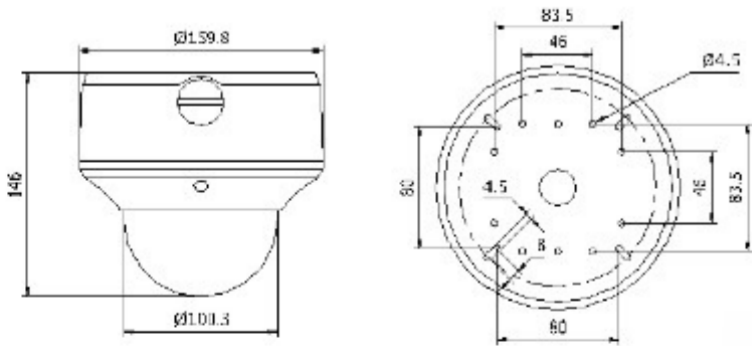
VNC-5370 / VNC-5270



Key Features

- Up to 2048 x 1536 high resolution
- FULL HD1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- On-board storage, up to 64GB
- Smart Focus: Motorized VF lens (Z Series)
- Smart VQD
- Smart Facial Detection
- Intrusion Detection
- Built-in heater & fan
- Vandal Proof
- EIS (Electronic Image Stabilization)
- Defog
- IP-66

Dimension



Technical Specifications

Model No	VNC-5370	VNC-5270
Image Sensor	1/3" progressive scan CMOS	
Min. Illumination	0.1 lux@F1.2, 0.14 lux@F1.4, 0 lux with IR	
Shutter Time	1s - 1/100,000s	
Slow Shutter	Yes	
Lens	2.8-12mm@F1.4, angle of view: 91.2°-28.3° (Z Series) : motorized VF Lens 8-20mm	
Angle Adjustment	Pan: 0° - 355°, tilt: 0° - 75°, rotation: 0° - 355°	
Auto IRIS	DC drive	
Day & Night	ICR (Auto/Schedule/Alarm Trigger)	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	120dB WDR	
Video Compression	H.264 / MPEG4 / MJPEG	
Video bit rate	32 Kbps - 16 Mbps	
Audio compression	G.711 / G.726 / MP2L2 *only for -S model	
Audio bit rate	64Kbps (G.711) / 16Kbps (G.726) *only for -S model	
Max. resolution	2048 x 1536	1920 x 1080
Frame rate	50 Hz: 20fps (2048 x 1536), 25fps (1920 x 1080) 25fps (1280 x 720) - 60 Hz: 20fps (2048 x 1536) 30fps (1920 x 1080), 30fps (1280 x 720)	
Image settings	Rotate mode, saturation, brightness, contrast, grayscale adjustable through client	
Features	Defog, BLC, EIS, ROI	
Picture overlay	128 x 128, BMP 24bit, zone configurable	
Network storage	NAS	
Alarm trigger	Intrusion detection, Defocus detection, Motion detection, Face detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour	
Security	User authentication, watermark, IP address filtering	
System compatibility	ONVIF, PSIA, CGI	
Communication interface	1 RJ45 IOM / 100M ethernet port	
Video Output	1 Vp-p composite output (75 Ω/RCA)	
On-board Storage	Micro SD/SDHC/SDXC card slot, up to 64GB	
Operating conditions	-30°C - 60°C (-22°F - 140°F), humidity 95%	
Power supply	24 VAC ± 10%, PoE (802.3af)	
Power consumption	Max. 12W	
IR range	Up to 30m	
Ingress protection	IP66	
Dimensions	Φ 159.8 x 146 mm (Φ 6.29" x 5.75")	
Weight	2100 g (4.62 lbs)	

* (Z SERIES) Smart Focus: Motorized VF lens (optional)

* (S series) 1-ch audio I/O interface, 1ch alarm I/O interface (optional)

SMART IP CAMERA

3MP & 2MP WDR Indoor Dome Network Camera

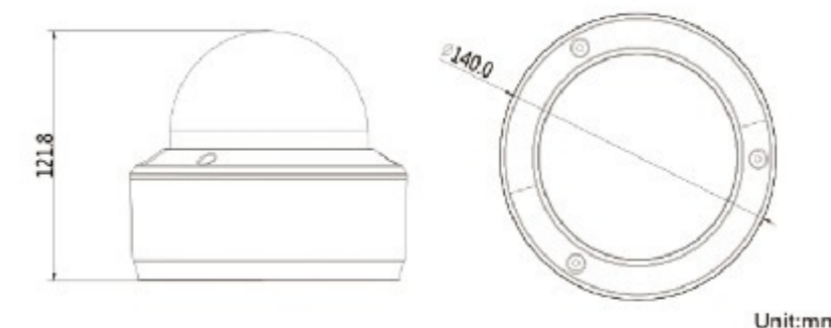
VNC-5350 / VNC-5250



Key Features

- Up to 2048 x 1536 high resolution
- FULL HD1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- On-board storage, up to 64GB
- Smart Focus: Motorized VF lens (Z Series)
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Smart IR
- Defog

Dimension



Unit:mm

Technical Specifications

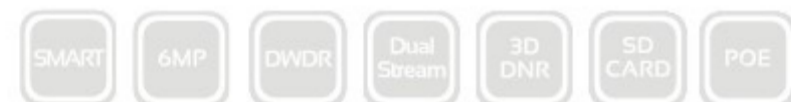
Model No	VNC-5350	VNC-5250
Image Sensor	1/3" progressive scan CMOS	
Min. Illumination	0.14 lux@F1.4, AGC on, 0 lux with IR	
Shutter Time	1s - 1/100,000s	
Slow Shutter	Yes	
Lens	2.8-12mm@F1.4, angle of view: 91.2°-28.3° (Z Series) : motorized VF Lens 8-20mm	
Angle Adjustment	Pan: 0° - 355°, tilt: 0° - 75°, rotation: 0° - 355°	
Auto IRIS	DC drive	
Day & Night	ICR (Auto/Schedule/Alarm Trigger)	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	120dB WDR	
Video Compression	H.264 / MPEG4 / MJPEG	
Video bit rate	32 Kbps - 16 Mbps	
Audio compression	G.711 / G.726 / MP2L2	
Audio bit rate	64Kbps (G.711) / 16Kbps (G.726)	
Max. resolution	2048 x 1536	1920 x 1080
Frame rate	50 Hz: 20fps (2048 x 1536), 25fps (1920 x 1080) 25fps (1280 x 720) - 60 Hz: 20fps (2048 x 1536) 30fps (1920 x 1080), 30fps (1280 x 720)	
Image settings	Rotate mode, saturation, brightness, contrast, grayscale adjustable through client	
Features	Defog, BLC, EIS, ROI, Alarm	
Picture overlay	128 x 128, BMP 24bit, zone configurable	
Network storage	NAS	
Alarm trigger	Intrusion detection, Defocus detection, Motion detection, Face detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour	
Security	User authentication, watermark, IP address filtering, anonymous access, reset	
System compatibility	ONVIF, PSIA, CGI	
Audio input	1-ch 3.5mm audio interface, Mic in/Line in	
Audio Output	1-ch 3.5mm audio interface	
Communication interface	1 RJ45 IOM / 100M ethernet port, RS-485, RS-232	
Video Output	1 Vp-p composite output (75 Ω / BNC)	
On-board Storage	Built-in micro SD/SDHC/SDXC card slot, up to 64GB	
Operating conditions	-30°C - 60°C (-22°F - 140°F), humidity 95%	
Power supply	12 VDC ± 10%, PoE (802.3af)	
IR range	Up to 30m	
Dimensions	Φ 140 x 121.8 mm (Φ 5.51" x 4.80")	
Weight	1400 g (3.09 lbs)	

* (Z SERIES) Smart Focus: Motorized VF lens (optional)

SMART IP CAMERA

6MP Day & Night Box Camera

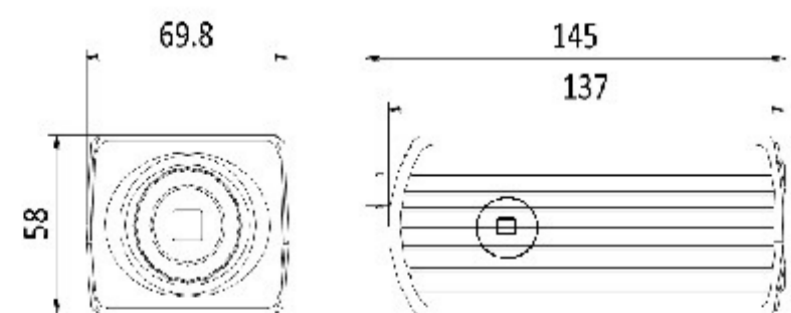
VNC-5610



Key Features

- 1/1.8" Progressive Scan CMOS
- 6MP @24fps
- Slow shutter
- DigitalWDR
- 3D DNR
- Audio/Alarm IO
- Support 128G on-board storage
- Smart Focus: ABF (A Series)
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Defog
- DC12V/AC24V/PoE

Dimension



Technical Specifications

Model No	VNC-5610
Image Sensor	1/1.8" Progressive Scan CMOS
Min. Illumination	Color: 0.01 Lux / B/W: 0.001 Lux
Shutter Time	1/3s - 1/100,000s / (Slow Shutter support)
Lens Mount	C/CS mount
Auto IRIS	DC drive (-P: support P-Iris)
Day & Night	ICR (Auto/Schedule/Alarm Trigger)
Smart Focus	-A: support ABF
Video Compress & bit rate	H.264/MJPEG & 32 Kbps - 16 Mbps
Audio Compression	G.711/G.722.1/G.726/MP2L2
Audio bit rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726)
Max. resolution	3072 x 2048
Frame rate	50Hz: 24fps (3072x2048), 25fps (3072x1728) 2560x2048,2560x1920,2048x1536,1920x1080 1280x720) 60Hz: 24fps (3072x2048),30fps (3072x1728,2560x2048,2560x1920,2048x536,1920x1080
Features	BLC/DWDR/Defog/Regional Cropping/Reset Key
Image settings	Rotate mode, saturation, brightness, contrast grayscale adjust in client,software or web browser
Day/Night Switch	Auto/Schedule/Triggered by Alarm In
Network storage	NAS (Support NFS,SMB/CIFS), ANR
Alarm trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.IX, QoS, IPv6, Bonjour
Security	User Authentication, Watermark, IP address filtering Anonymous access
System compatibility	ONVIF(PROFILE S,PROFILE G),PSIA,CGI,SAPI
Audio	1-ch 3.5 mm audio in(Mic in/Line in)/out interface 1 build-in Microphone
Communication interface	1 RJ45 10M / 100M ethernet port,1 RS-485, 1 RS-232
Alarm	1 input,1 output (up to DC24V 1A or AC110V 500mA)
Video Output	1 Vp-p composite output (75 Ω / BNC)
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128GB
Smart Functions	Behavior Analysis,Line Crossing Detection,Region ExitingIntrusion Detection,Unattended Baggage Object Removal,Exception Detections,Recognition Region Entrance,Statistics
Operating conditions	-30 °C -60 °C (-22 °F -140 °F), Humidity 95%
Power supply	24 V AC ± 10%, 12 V DC ± 10%, PoE (802.3af)
Power consumption	Max. 6 W (Max. 9W with IR cut filter on)
Dimensions	69.8x58x145 mm (2.75" x 2.28" x 5.71")
Weight	830 g (1.83 lbs)

WDR IP CAMERA

3MP WDR Day & Night Box Camera

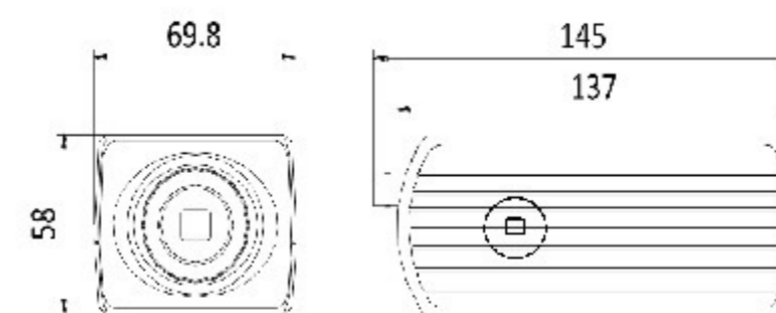
VNC-5310



Key Features

- Up to 2048 x 1536 high resolution
- Full HD1080p video
- Smart Codec
- 120dB WDR, 3D DNR
- Triple streams
- On-board storage, up to 64GB
- Smart Focus: ABF (A Series)
- Smart VQD
- Smart Facial Detection
- Smart Audio Detection
- Intrusion Detection
- Two way audio, built-in Mic
- Defog

Dimension



Technical Specifications

Model No	VNC-5310
Image Sensor	1/3" progressive scan CMOS
Min. Illumination	Color: 0.1 lux@F1.2, AGC on B/W: 0.01 lux@F1.2, AGC on
Shutter Time	1s - 1/100,000s
Lens Mount	C/CS mount
Auto IRIS	DC drive (-P: P-Iris)
Day & Night	ICR (Auto/Schedule/Alarm Trigger)
Digital Noise Reduction	3D DNR
Wide Dynamic Range	120dB WDR
Smart Focus	Auto Back Focus
Video Compression	H.264 / MPEG4 / MJPEG
Video bit rate	32 Kbps - 16 Mbps
Max. resolution	2048 x 1536
Frame rate	50 Hz: 20fps (2048 x 1536), 25fps (1920 x 1080) 25fps (1280 x 720), 60 Hz: 20fps (2048 x 1536) 30fps (1920 x 1080), 30fps (1280 x 720)
Image settings	Rotate mode, saturation, brightness, contrast grayscale adjust in client,software or web browser
Features	Defog, BLC, EIS, ROI, Reset Function
Pictures overlay	128 x 128, BMP 24bit, zone configurable
Network storage	NAS
Alarm trigger	Intrusion detection,motion detection,face detection tampering alarm, defocus,network disconnect IP address conflict, storage exception
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.IX, QoS, IPv6, Bonjour
Security	User authentication, watermark, IP address filtering anonymous access
System compatibility	ONVIF, PSIA, CGI
Audio Input	1-ch 3.5mm audio interface, Mic in/Line in 1-ch built-in Microphone
Audio Output	1-ch 3.5mm audio interface
Communication interface	1 RJ45 10M / 100M ethernet port,1 RS-485, 1 RS-232
Alarm I/O	I/I
Video Output	1 Vp-p composite output (75 Ω / BNC)
On-board storage	micro SD/SDHC/SDXC card slot, up to 64GB
Operating conditions	-30°C - 60°C (-22°F - 140°F) humidity 95%
Power supply	24VAC± 10%, 12 VDC ± 10%, PoE (802.3af)
Power consumption	Max. 6.5W (max. 9.5W with ICR on)
Dimensions	100.5 x 88.1 x 157.3 mm
Weight	700g (1.5 lbs)

PROFESSIONAL IP CAMERA

3MP & 2MP & 1.3MP VF IR Bullet Network Camera

VNC-4330 / VNC-4230 / VNC-4130

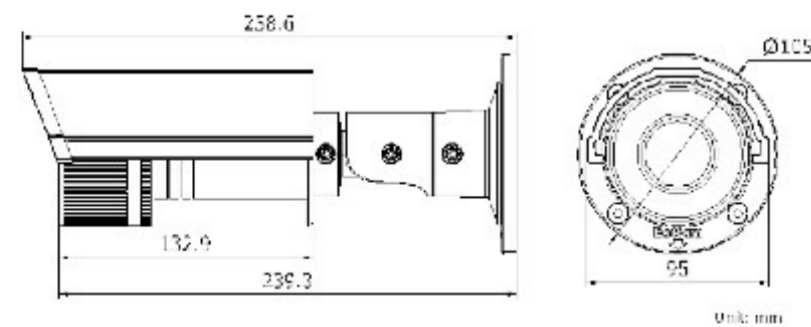
Technical Specifications



Key Features

- Up to 3 megapixel (2048 x 1536) resolution
- FULL HD1080p real-time video
- Vari-focal lens
- IR LEDs (up to 30m)
- DWDR & 3D DNR & BLC
- IP66
- Support onboard storage (up to 64GB)
- Audio I/O, Alarm I/O (S Series)

Dimensions



Model No	VNC-4330	VNC-4230	VNC-4130
Image Sensor	1/3" progressive scan CMOS		
Min. Illumination	0.095 lux@F1.4 0 lux with IR		
Shutter Time	1/30s - 1/100,000s		
Lens	2.8 - 12 mm @F1.4, angle of view: 98° - 30.5°		
Lens Mount	Φ14		
Day & Night	ICR		
Digital Noise Reduction	3D DNR		
Wide Dynamic Range	Digital WDR		
Video Compression	H.264 / MJPEG		
H.264 codec profile	Main profile		
Video bit rate	32 Kbps - 16 Mbps		
Audio compression (-s)	G.711 / G.726		
Audio bit rate	64Kbps (G.711) / 16Kbps (G.726)		
Max. resolution	VNC-4330 : 2048 x 1536	VNC-4230 : 1920 x 1080	VNC-4130 : 1280 x 960
Frame rate	60Hz: 15fps (2048 x 1536), 30fps (1920 x 1080) 30fps (1280 x 960), 30fps (1280 x 720)		
Image settings	Saturation, brightness, contrast adjustable through client software or web browser		
BLC	Yes, zone configurable		
Network storage	NAS		
Alarm trigger	Motion detection, tampering alarm, network, IP address conflict, disconnect, storage full & error		
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, UPnP, ICMP, IGMP, SNMP, FTP, 802.1X, QoS, HTTPS		
System compatibility	ONVIF, PSIA, CGI		
General functionalities	User authentication, watermark, dual stream		
Communication interface	1 RJ45 10M / 100M ethernet port		
On-board storage	Built-in Micro SD / SDHC / SDXC card slot up to 64 GB		
Operating conditions	-30 °C - 60 °C (-22 °F - 140 °F), humidity 95%		
Power supply	DC12 V ± 10%, PoE (802.3af)		
Power consumption	Max. 5.5W (7.5W with ICR on)		
Ingress protection level	IP66		
IR range	Up to 30m		
Dimensions	95 x 105 x 258.6 mm (3.74" x 4.13" x 10.18")		
Weight	1200g		

* (S series) I-ch audio I/O interface, I-ch alarm I/O interface (optional)

PROFESSIONAL IP CAMERA

3MP & 2MP & 1.3MP VF IR Dome Network Camera

VNC-4370 / VNC-4270 / VNC-4170

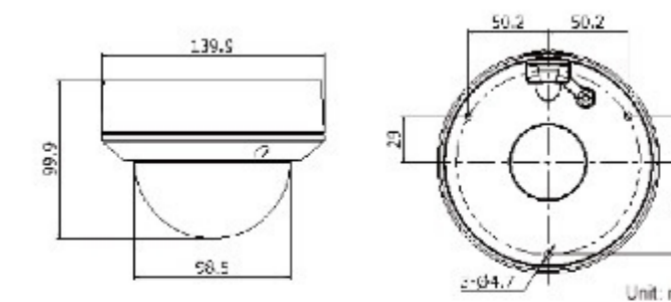
Technical Specifications



Key Features

- 3MP high resolution
- FULL HD real-time video
- IR LEDs: up to 20m
- DWDR & 3D DNR & BLC
- Onboard storage (up to 64GB)
- Audio I/O, Alarm I/O (S Series)
- IP66
- Vandal-proof

Dimensions



Model No	VNC-4370	VNC-4270	VNC-4170
Image Sensor	1/3" progressive scan CMOS		
Min. Illumination	0.01 lux @F1.2, AGC ON, 0 lux with IR		
Shutter Time	1/30s - 1/100,000s		
Lens	2.8 - 12 mm @F1.4, angle of view: 80° - 28.7°		
Lens Mount	Φ14		
Auto IRIS	DC DRIVE		
Day & Night	ICR		
Digital Noise Reduction	3D DNR		
Wide Dynamic Range	Digital WDR		
Angle Adjustment	Pan: 0° - 355°, Tilt: 0° - 75°, Rotation: 0° - 355°		
Video Compression	H.264 / MJPEG		
H.264 codec profile	Main profile		
Video bit rate	32 Kbps - 16 Mbps		
Audio compression (-s)	G.711 / G.726 / MP2L2		
Audio bit rate	64 Kbps (G.711) / 16 Kbps (G.726) / 32-128 Kbps		
Max. resolution	2048 x 1536	1920 x 1080	1280 x 960
Frame rate	50Hz: 20fps (2048 x 1536), 25fps (1920 x 1080), 25fps (1280 x 960)		
	60Hz: 20fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)		
Image settings	Rotate mode, Saturation, brightness, contrast, sharpness adjustable through client software or web browser		
BLC	Yes, zone configurable		
Network storage	NAS		
Alarm trigger	Motion detection, tampering alarm		
Protocols	TCP/IP, IGMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour		
System compatibility	ONVIF, PSIA, CGI		
General functionalities	User authentication, watermark, dual stream		
Communication interface	1 RJ45 10M / 100M ethernet port		
On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB		
Operating conditions	-30 °C - 60 °C (-22 °F - 140 °F) humidity 95% or less (non-condensing)		
Power supply	12 VDC ± 10%, PoE (802.3af)		
Power consumption	Max. 5.5W (max. 7W with ICR on)		
Impact protection	IEC60068-2-75Eh, 20J; EN50102, up to IK10		
Ingress protection level	IP66		
IR range	Up to 20m		
Dimensions	Φ140 x 99.9mm (Φ5.51" x 3.94")		
Weight	1000g		

* (S series) I-ch audio I/O interface, I-ch alarm I/O interface (optional)

PROFESSIONAL EXIR IP CAMERA

3MP & 2MP & 1.3MP EXIR Bullet Network Camera

VNC-4322 / VNC-4222 / VNC-4122

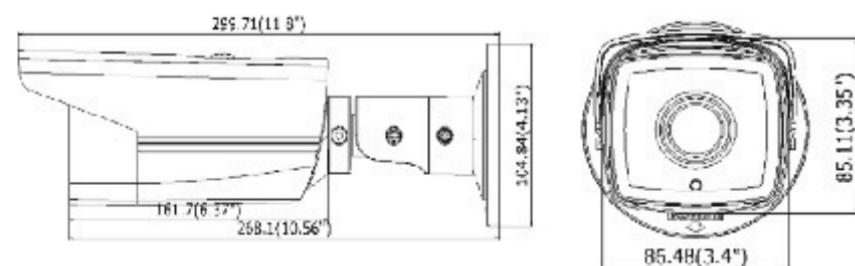
Technical Specifications



Key Features

- 1/3" Progressive Scan CMOS
- 3MP high resolution
- FULL HD real-time video
- DWDR & 3D DNR
- EXIR illuminators: up to 50m
- IP66
- PoE
- Bracket included
- Dual Stream
- ONVIF

Dimension



Model No	VNC-4322	VNC-4222	VNC-4122
Image Sensor	1/3" progressive scan CMOS		
Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR 0.014 Lux @(F1.4,AGC ON), 0 Lux with IR		
Shutter Time	1/3 s to 1/100,000 s		
Lens	4 mm @ F2.0 (6mm, 16mm optional)		
Day & Night	ICR		
Digital Noise Reduction	3D DNR		
Wide Dynamic Range	Digital WDR		
Video Compression	H.264 / MJPEG		
H.264 codec profile	Baseline profile / main profile		
Video bit rate	32 Kbps - 12 Mbps		
Dual Stream	Yes		
Max. resolution	2048 x 1536 1920 x 1080 1280 x 960		
Frame rate (50Hz)	50Hz: 20fps (2048 x 1536), 25fps (1920 x 1080), 25fps (1280 x 960) 60Hz: 20fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)		
Image settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser		
BLC	Yes, zone configurable		
ROI	Support		
Network storage	NAS		
Alarm trigger	Motion detection, tampering alarm, scene change detection, face detection, intrusion detection, Line crossing detection		
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP SMTP, SNMP, IGMP, 802.IX, QoS, IPv6, Bonjour		
System compatibility	ONVIF, PSIA, CGI		
Communication interface	1 RJ45 IOM / 100M ethernet port		
Operating conditions	-30 °C - 60 °C (-22°F - 140 °F) humidity 95%		
Power supply	12 VDC ± 10% , PoE (802.3af)		
Power consumption	Max. 7W		
Ingress protection level	IP66		
IR range	EXIR LEDs, up to 50m		
Dimensions	Φ105mm x ~300mm		
Weight	1200g		

PROFESSIONAL EXIR IP CAMERA

3MP & 1.3M EXIR Turret Network Camera

VNC-4362 / VNC-4162

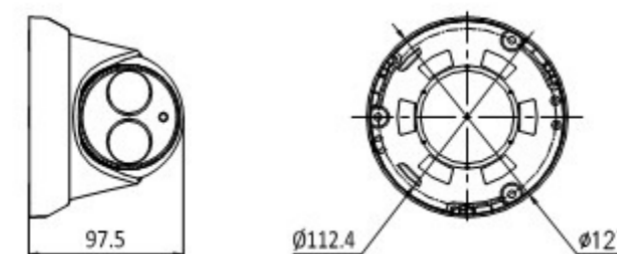
Technical Specifications



Key Features

- 3 megapixel (2048 x 1536) resolution
- FULL HD1080p real-time video
- DWDR & 3D DNR & BLC
- EXIR illuminator (up to 30m)
- Dual Stream
- ONVIF
- IP66
- PoE

Dimensions



Unit: mm

Model No	VNC-4362	VNC-4162
Image Sensor	1/3" progressive scan CMOS	
Min. Illumination	0.19 lux@ F2.0, AGC on 0 lux with IR	
Shutter Time	1/30s - 1/100,000s	
Lens	4mm@F2.0, angle of view: 75.8° (2.8mm, 6mm, 12mm optional)	
Lens Mount	M12	
Angle adjustment	Pan: 0° - 360°, tilt: 0° - 75°, rotation: 0° - 360°	
Day & Night	ICR	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Video Compression	H.264 / MJPEG	
H.264 codec profile	Main profile	
Video bit rate	32 Kbps - 16 Mbps	
Dual stream	Yes	
Max. resolution	VNC-4362 : 2048 x 1536 VNC-4162 : 1280 x 960	
Frame rate	60Hz: 15fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)	
Image settings	Saturation, brightness, contrast adjustable through client software or web browser	
BLC	Yes, zone configurable	
Network storage	NAS	
Alarm trigger	Motion detection, tampering alarm	
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, 802.IX, Qos	
System compatibility	ONVIF, PSIA, CGI	
General functionalities	User authentication, watermark	
Communication interface	1 RJ45 IOM / 100M ethernet port	
Operating conditions	-30 °C - 60 °C (-22°F - 140 °F) humidity 95% or less (non-condensing)	
Power supply	12 VDC ± 10% , PoE (802.3af)	
Power consumption	Max. 5.5W (7.5W with ICR on)	
Ingress protection level	IP66	
EXIR range	Up to 30m	
Dimensions	Φ 127 x 97.5 mm	
Weight	670g (1.5 lbs)	

PROFESSIONAL EXIR IP CAMERA

3MP & 1.3MP EXIR Bullet Network Camera

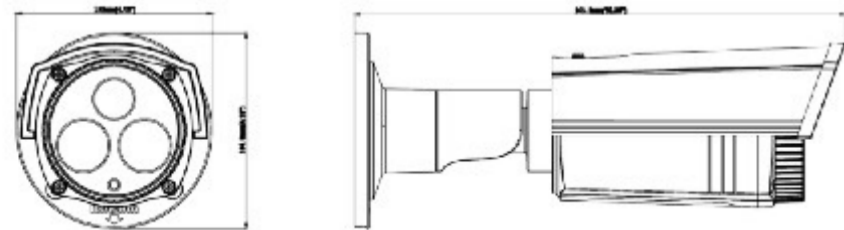
VNC-4321 / VNC-4121



Key Features

- 3.0 megapixel (2048 x 1536) resolution
- FULL HD1080p real-time video
- DWDR & 3D DNR & BLC
- EXIR illuminators: up to 50m
- IP66
- PoE
- Dual Stream
- ONVIF

Dimension



Technical Specifications

Model NO.	VNC-4321	VNC-4121
Image Sensor	1/3" progressive scan CMOS	
Min. Illumination	0.19lux@F2.0, AGC on 0 lux with IR	
Shutter Time	1/25s (1/30s) - 1/100,000s	
Lens	4mm@ F2.0 (6mm, 12mm optional)	
Lens Mount	M12	
Day & Night	ICR	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Video Compression	H.264 / MJPEG	
H.264 codec profile	Main profile	
Video bit rate	32 Kbps - 16 Mbps	
Dual Stream	Yes	
Max. resolution	2048 x 1536	1280 x 960
Frame rate	60Hz: 15fps (2048 x 1536), 30fps (1920 x 1080) 30fps (1280 x 960), 30fps (1280 x 720)	
Image settings	Saturation, brightness, contrast adjustable through client software or web browser	
BLC	Yes, zone configurable	
Network storage	NAS	
Alarm trigger	Motion detection, tampering alarm	
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1X, Qos	
System compatibility	ONVIF, PSIA, CGI	
General functionalities	User authentication, watermark	
Communication interface	1 RJ45 IOM / 100M ethernet port	
Operating conditions	-30°C - 60°C (-22°F - 140°F) humidity 95%	
Power supply	12 VAC ± 10%, PoE (802.3af)	
Power consumption	Max. 7W (9W with ICR on)	
Ingress protection level	IP66	
IR range	up to 50m	
Dimensions	100.5 x 88.1 x 157.3 mm	
Weight	700g (1.5 lbs)	

PROFESSIONAL IP CAMERA

3MP & 2MP & 1.3MP Mini Dome Network Camera

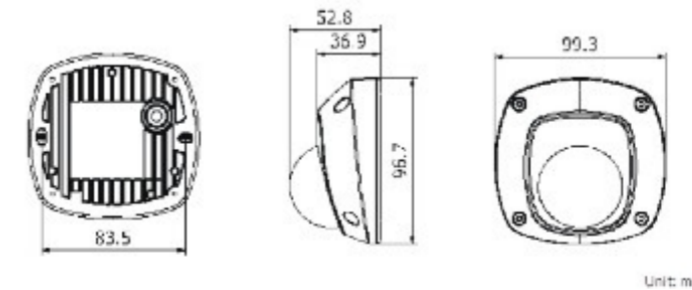
VNC-4360 / VNC-4260 / VNC-4160



Key Features

- Up to 3 megapixel (2048 x 1536) resolution
- FULL HD1080p real-time video
- IR LEDs (up to 10m)
- DWDR & 3D DNR & BLC
- Onboard storage (up to 64 GB)
- Audio I/O, Alarm I/O (S Series)
- IP66 protection
- Vandal-proof housing

Dimensions



Unit: mm

Technical Specifications

Model NO.	VNC-4360	VNC-4260	VNC-4160
Image Sensor	1/3" progressive scan CMOS		
Min. Illumination	0.19lux @ F2.0, AGC on 0 lux with IR		
Shutter Time	1/30s - 1/100,000s		
Lens	4mm@F2.0, angle of view: 75.8° (2.8mm, 6mm optional)		
Lens Mount	M12		
Day & Night	ICR		
Digital Noise Reduction	3D DNR		
Wide Dynamic Range	Digital WDR		
Video Compression	H.264 / MJPEG		
H.264 codec profile	Main profile		
Video bit rate	32 Kbps - 16 Mbps		
Max. resolution	VNC-4360 : 2048 x 1536	VNC-4260 : 1920 x 1080	VNC-4160 : 1280 x 960
Frame rate	60Hz: 15fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)		
Image settings	Saturation, brightness, contrast adjustable through client software or web browser		
BLC	Yes, zone configurable		
Network storage	NAS		
Alarm trigger	Motion detection, tampering alarm, network disconnect, IP address conflict, storage exception		
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1X, Qos		
System compatibility	ONVIF, PSIA, CGI		
General functionalities	Flickerless, dual stream, heartbeat, mirror, user authentication, video mask, watermark		
Communication interface	1 RJ45 IOM / 100M ethernet port		
On-board storage	Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB		
Operating conditions	-30 °C - 60 °C (-22°F - 140 °F) humidity 95% or less (non-condensing)		
Power supply	DC12V ± 10%, PoE (802.3af)		
Power consumption	Max. 7W		
Impact protection	IEC60068-2-75Eh, 20J; EN50102, up to IK10		
Ingress protection level	IP66		
IR range	Up to 10m		
Dimensions	99.9 x 97.5 x 46.5 mm (3.93" x 3.84" x 1.83")		
Weight	250g (0.55 lbs)		

* (S SERIES) : Audio I/O interface and Alarm I/O interface (Optional)

PROFESSIONAL IP CAMERA

3MP & 2MP & 1.3MP IR Bullet Network Camera

VNC-4320 / VNC-4220 / VNC-4120

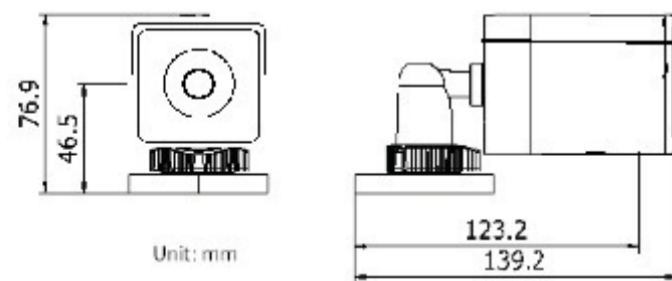
Technical Specifications



Key Features

- 3 megapixel (2048 x 1536) high resolution
- FULL HD1080p real-time video
- 3D DNR & DWDR & BLC
- IR LEDs: up to 30m
- IP66
- PoE
- Compact design
- ONVIF

Dimensions



Model NO.	VNC-4320 VNC-4220 VNC-4120
Image Sensor	1/3" progressive scan CMOS
Min. Illumination	0.07 lux @F1.2, AGC ON / 0 lux with IR
Shutter Time	1/25s (1/30s) - 1/100,000s
Lens	4mm @F2.0, angle of view: 75.8° (6mm, 12mm optional)
Lens Mount	M12
Day & Night	IR cut filter with auto switch
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Digital WDR
Video Compression	H.264 / MJPEG
H.264 codec profile	Main profile
Video bit rate	32 Kbps - 16 Mbps
Max. resolution	VNC-4320 : 2048 x 1536 VNC-4220 : 1920 x 1080 VNC-4120 : 1280 x 960
Frame rate	50Hz: 12.5fps (2048 x 1536), 25fps (1920 x 1080) 25fps (1280 x 960) 60Hz: 15fps (2048 x 1536) 30fps (1920 x 1080), 30fps (1280 x 720)
Image settings	Saturation, brightness, contrast, sharpness adjustable through client software or web browser
BLC	Yes, zone configurable
Network storage	NAS
Alarm trigger	Motion detection, dynamic analysis, tampering alarm
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
System compatibility	ONVIF, PSIA, CGI
Security	User Authentication, reset button, dual stream, watermark
Communication interface	1 RJ45 IOM / 100M ethernet port
Operating conditions	-30 °C - 60 °C (-22°F - 140 °F) humidity 95%
Power supply	12 VDC ± 10%, PoE (802.3af)
Power consumption	Max. 5W (7W with ICR on)
Ingress protection level	IP66
IR range	up to 30m
Dimensions	60.4 x 76.9 x 139.28mm
Weight	500g (1.1lbs)

PROFESSIONAL IP CAMERA

3MP & 2MP & 1.3M IR Fixed Dome Network Camera

VNC-4361 / VNC-4261 / VNC-4161

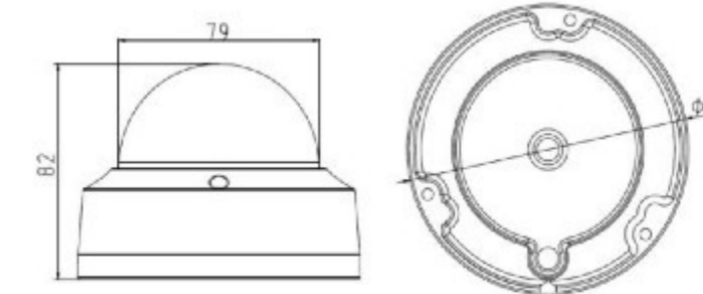
Technical Specifications



Key Features

- 3MP high resolution
- FULL HD real-time video
- 3D DNR & DWDR & BLC
- IR LEDs: up to 30m
- IP66
- Vandal-proof
- PoE
- Onboard storage (up to 64GB)
- Wi-Fi optional

Dimensions



Model NO.	VNC-4361 VNC-4261 VNC-4161
Image Sensor	1/3" progressive scan CMOS
Min. Illumination	0.01 lux@F1.2, AGC ON, 0 lux with IR
Shutter Time	1/3s - 1/100,100s
Lens	4mm @ F2.0 (2.8mm, 6mm optional) 2048 x 1536 Angle of view: 86°(2.8mm), 70°(4mm), 43.3°(6mm) 1920 x 1080: Angle of view: 98.5°(2.8mm), 79°(4mm), 49°(6mm)
Lens Mount	M12
Angle adjustment	Pan: 0° - 355°, Tilt: 0° - 65°, Rotation: 0 - 360°
Day & Night	IR cut filter with auto switch
Digital Noise Reduction	3D DNR
Wide Dynamic Range	Digital WDR
Video Compression	H.264 / MJPEG
H.264 codec profile	Main profile
Video bit rate	32 Kbps - 16 Mbps
Dual stream	Yes
Max. resolution	2048 x 1536 1920 x 1080 1280 x 960
Frame rate	50Hz: 20fps (2048 x 1536), 25fps (1920 x 1080), 25fps (1280 x 960) 60Hz: 20fps (2048 x 1536), 30fps (1920 x 1080), 30fps (1280 x 720)
Image settings	Saturation, brightness, contrast adjustable through client software or web browser
BLC	Yes, zone configurable
ROI	Yes, up to 3 configurable areas
Network storage	Local storage: Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB ; NAS
Alarm trigger	Face detection, line crossing detection, intrusion detection, scene change detection, Motion detection, Dynamic Analysis, Tampering alarm, Network disconnect, IP address conflict, Storage full
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
System compatibility	ONVIF, PSIA, CGI, ISAPI
General functionalities	User Authentication, Watermark
Communication interface	1 RJ45 IOM / 100M ethernet port
Operating conditions	-30 °C - 60 °C (-22°F - 140 °F) humidity 95%
Power supply	DC12V ± 10%, PoE (802.3af)
Power consumption	Max. 7W
Ingress protection level	IP-66
IR range	Up to 30m
Dimensions	Φ111 x 82 (4.4" x 3.2")
Weight	500g (1.1 lbs)

2MP & 1.3M VF IR Bullet Network Camera

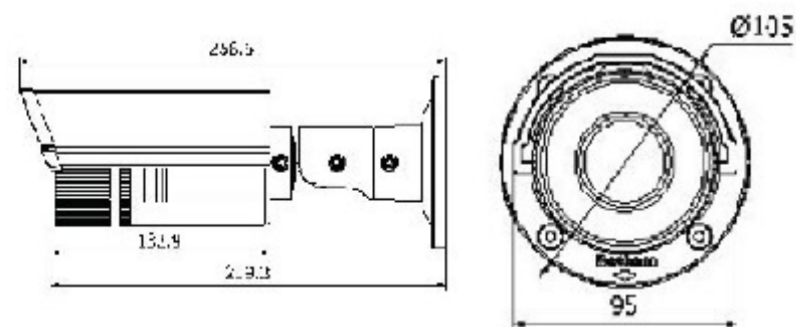
VNC-2230 / VNC-2130



Key Features

- 2MP high resolution
- FULL HD real-time video
- Vari-focal lens
- IR LEDs (up to 30m)
- DWDR & 3D DNR & BLC
- IP66
- Onboard storage (up to 64GB)
- Audio I/O, Alarm I/O (S Series)

Dimensions



Technical Specifications

Model NO.	VNC-2230	VNC-2130
Image Sensor	1/3" progressive scan CMOS	
Min. Illumination	(VNC-2230) 0.07 lux @F1.2, AGC ON, 0 Lux with IR (VNC-2130) 0.01 lux @F1.2, AGC ON, 0 Lux with IR	
Shutter Time	1/3s - 1/100,100s	
Lens	(VNC-2230) 2.8 - 12 mm, angle of view: 91.2°-28.3°	
Lens	(VNC-2130) 2.8 - 12 mm, angle of view: 105°-31.9°	
Lens Mount	Ø14	
Day & Night	ICR	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Video Compression	H.264 / MJPEG	
H.264 codec profile	Main profile	
Video bit rate	32 Kbps - 16 Mbps	
Audio compression (-S)	G.711 / G.726 / MP2L2	
Audio bit rate (-S)	64 Kbps(G.711)/16Kbps(G.726)/32-128Kbps(MP2L2)	
Max. resolution	1920 x 1080	1280 x 960
Frame rate	50Hz: 25fps (1920 x 1080), 25fps (1280 x 720) 60Hz: 30fps (1920 x 1080), 30fps (1280 x 720)	
Image settings	Saturation, brightness, contrast adjustable through client software or web browser	
BLC	Yes, zone configurable	
Network storage	NAS	
Alarm trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, Storage full	
Protocols	TCP/IP, HTTP, DHCP, DNS, DDNS, RTP, RTSP, PPPoE, SMTP, NTP, SNMP, HTTPS, FTP, 802.1X, QoS	
System compatibility	ONVIF, PSIA, CGI	
General functionalities	User authentication, watermark, dual stream	
Communication interface	1 RJ45 10M / 100M ethernet port	
Onboard storage	Built-in Micro SD/SDHC/SDXC card, up to 64GB	
Operating conditions	-30 °C - 60 °C (-22°F - 140 °F) humidity 95% or less (non-condensing)	
Power supply	12 VDC ± 10%, PoE (802.3af)	
Power consumption	Max. 5.5W (7.5W with ICR on)	
Ingress protection level	IP66	
EXIR range	Up to 30m	
Dimensions	95 x 105 x 258.6 mm	
Weight	1200g	

* (S SERIES) 1 Audio I/O, 1 Alarm I/O (optional)

2MP & 1.3M VF IR Dome Network Camera

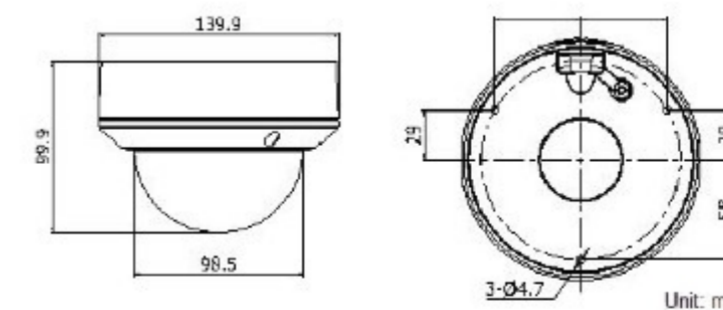
VNC-2270 / VNC-2170



Key Features

- 2MP high resolution
- FULL HD real-time video
- IR LEDs: up to 30m
- DWDR & 3D DNR & BLC
- Onboard storage (up to 64GB)
- Audio I/O, Alarm I/O (S Series)
- IP66
- Vandal-proof

Dimensions



Technical Specifications

Model NO.	VNC-2270	VNC-2170
Image Sensor	1/3" progressive scan CMOS	
Min. Illumination	VNC-2270 : 0.07 lux @F1.2, AGC ON, 0 lux with IR VNC-2170 : 0.01 lux @F1.2, AGC ON, 0 lux with IR	
Shutter Time	1/3s - 1/100,100s	
Lens	VNC-2270 : 2.8 - 12 mm angle of view: 91.2°-28.3° VNC-2170 : 2.8 - 12 mm angle of view: 105°-31.9°	
Lens Mount	Ø14	
Auto IRIS	DC Drive	
Day & Night	IR cut filter with auto switch	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Angle adjustment	Pan: 0° - 355°, tilt: 0° - 75°, rotation: 0° - 355°	
Video Compression	H.264 / MJPEG	
H.264 codec profile	Main profile	
Video bit rate	32 Kbps - 16 Mbps	
Audio compression (-S)	G.711 / G.726	
Audio bit rate (-S)	64 Kbps (G.711) / 16 Kbps (G.726)	
Max. resolution	1920 x 1080	1280 x 960
Frame rate	50Hz: 25fps (1920 x 1080), 25fps (1280 x 960) 60Hz: 30fps (1920 x 1080), 30fps (1280 x 720)	
Image settings	Saturation, brightness, contrast adjustable through client software or web browser	
BLC	Yes, zone configurable	
Network storage	NAS	
Alarm trigger	Motion detection, tampering alarm	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour	
System compatibility	ONVIF, PSIA, CGI, ISAPI	
General functionalities	User Authentication, Watermark, Dual Stream	
Communication interface	1 RJ45 10M / 100M ethernet port	
Operating conditions	-30 °C - 60 °C (-22°F - 140 °F) humidity 95% or less (non-condensing)	
Power supply	12 VDC ± 10%, PoE (802.3af)	
Power consumption	Max. 5.5W (max. 7W with ICR on)	
Impact protection	IEC60068-2-75Eh, 50J; EN50102, up to IK10	
Ingress protection level	IP66	
IR range	Up to 30m	
Dimensions	Ø 140 x 99.9 mm	
Weight	1000g	

* (S SERIES) 1 Audio I/O, 1 Alarm I/O (optional)

2 MP & 1.3MP CMOS Network Mini Dome Camera

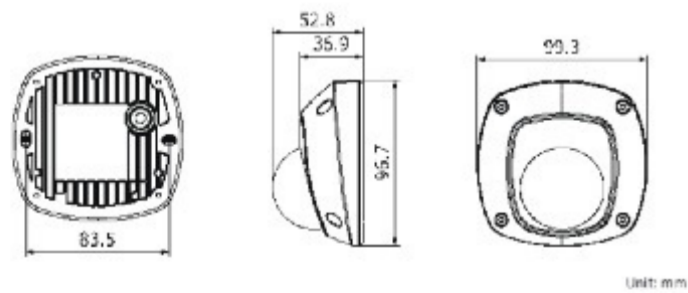
VNC-2261 / VNC-2161



Key Features

- 2 MP (1920 x 1080 @ 30 fps) resolution
- Standard video compression
- POE (Power over Ethernet)
- 3D DNR
- 3-axis adjustment for easy installation
- Ingress Protection level: IP66
- Support Onvif
- Dual stream

Dimensions



Unit: mm

Technical Specifications

Model NO.	VNC-2261	VNC-2161
Image Sensor	1/2.8" Progressive Scan CMOS	
Min. Illumination	0.05Lux @(F1.2, AGC ON)	
Shutter Time	1/25(1/30) s to 1/100,000 s	
Lens	4mm@F2.0 (2.8mm optional) Angle of view: 79°(4mm)	
Lens Mount	Φ14	
Day & Night	Electronic	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Angle Adjustment	Pan: ± 15°, Tilt: 0 - 90°, Rotation: ± 15°	
Video Compression	H.264 / MJPEG	
H.264 codec profile	Main profile	
Video bit rate	32 Kbps - 16 Mbps	
Max. resolution	1920 x 1080	1280 x 960
Frame rate	50Hz: 25fps(1920 x 1080), 25fps (1280 x 960), 25fps (1280 x 720) 60Hz: 30fps(1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)	
Image settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser	
BLC	Yes, zone configurable	
ROI	Yes, up to 4 configurable areas	
Network storage	Local storage: Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB. NAS	
Alarm trigger	Motion detection, Dynamic Analysis, Tampering alarm, Network disconnect, IP address conflict, Storage full, storage error	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour	
Standard	ONVIF, PSIA, CGI, ISAPI	
General functionalities	Flash-prevention, dual stream, video cover, heartbeat mirror, password protection, reset button, watermark	
Communication interface	1 RJ45 10M / 100M ethernet port	
Operating conditions	-30 °C - 60 °C (-22 °F - 140 °F) Humidity 95% or less (non-condensing)	
Power supply	12 VDC ± 10% / PoE	
Power consumption	Max. 4W	
Protection level	IP66	
Impact Protection	IEC60068-2-75Eh, 20J; EN50102, up to IK10	
Dimensions	99.9 x 97.5 x 46.5 mm (3.93" x 3.84" x 1.83")	
Weight	400 g (0.88 lbs)	

2 MP & 1.3MP IR Fixed Dome Network Camera

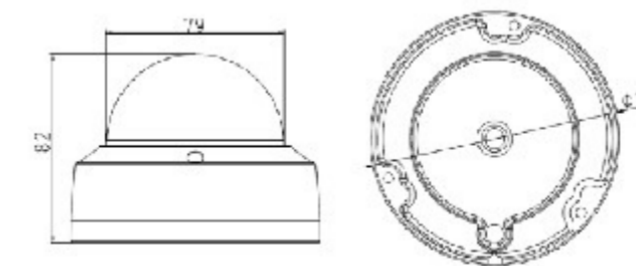
VNC-2260 / VNC-2160



Key Features

- 2MP/1.3MP high resolution
- HD real-time video
- 3D DNR & DWDR & BLC
- IR LEDs: up to 30m
- IP66
- Vandal-proof
- PoE

Dimensions



Technical Specifications

Model NO.	VNC-2260	VNC-2160
Image Sensor	1/3" progressive scan CMOS	
Min. Illumination	0.07Lux @(F1.2, AGC ON, 0 lux with IR)	
Shutter Time	1/3s - 1/100,000s	
Lens	4mm @ F2.0, (2.8mm, 6mm optional) Angle of view: 98.5°(2.8mm), 79°(4mm), 49°(6mm)	
Lens Mount	M12	
Day & Night	IR cut filter with auto switch	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Angle adjustment	Pan: 0° - 355°, Tilt: 0° - 65°, Rotation: 0 - 360°	
Video Compression	H.264 / MJPEG	
H.264 codec profile	Main profile	
Video bit rate	32 Kbps - 16 Mbps	
Dual Stream	Yes	
Max. resolution	1920 x 1080	1280 x 960
Frame rate	50Hz: 25fps (1920 x 1080), 25fps (1280 x 960) 60Hz: 30fps (1920 x 1080), 30fps (1280 x 720)	
Image settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser	
BLC	Yes, zone configurable	
ROI	Yes, zone configurable	
Network storage	Local storage: Built-in Micro SD/SDHC/SDXC card slot, up to 64 GB ; NAS	
Alarm trigger	Intrusion detection, Motion detection, Dynamic Analysis, Tampering alarm, Network disconnect, IP address conflict, Storage full, Storage error	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour	
System compatibility	ONVIF, PSIA, CGI, ISAPI	
General functionalities	User Authentication, Watermark	
General function	Flickerless, dual stream, heartbeat, mirror, password protection, watermark	
Communication interface	1 RJ45 10M / 100M ethernet port	
Operating conditions	-30 °C - 60 °C (-22 °F - 140 °F) humidity 95% or less (non-condensing)	
Power supply	12 VDC ± 10% , PoE (802.3af)	
Power consumption	Max. 5.5W (max. 7W with ICR on)	
Impact protection	IEC60068-2-75Eh, 50J; EN50102, up to IK10	
Ingress protection level	IP66	
IR range	Up to 30m	
Dimensions	Φ111 x 82 (4.4" x 3.2")	
Weight	500g (1.1 lbs)	

2 MP & 1.3MP IR Bullet Network Camera

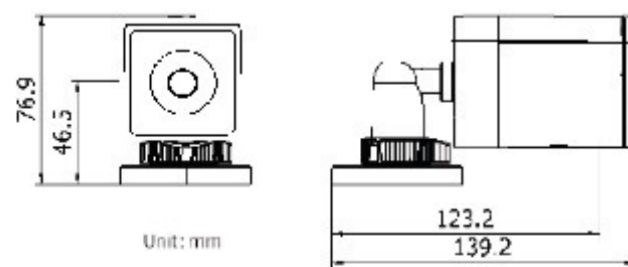
VNC-2220 / VNC-2120



Key Features

- 2 MP 1920 x 1080 resolution
- Standard video compression
- POE (Power over Ethernet)
- 3D DNR
- 3-axis adjustment for easy installation
- IR cut filter with auto switch
- Ingress Protection level: IP66
- Support Onvif
- Dual stream

Dimensions



Technical Specifications

Model NO.	VNC-2220	VNC-2120
Image Sensor	1/3" Progressive Scan CMOS	
Min. Illumination	0.07Lux @(F1.2, AGC ON), 0 Lux with IR	
Shutter Time	1/25 s to 1/100,000 s	
Lens	4mm@ F2.0, Angle of view: 79° (6mm, 12mm optional)	
Lens Mount	M12	
Day & Night	IR cut filter with auto switch	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Video Compression	H.264 / MJPEG	
H.264 codec profile	Main profile	
Video bit rate	32 Kbps - 16 Mbps	
Dual stream	Yes	
Max. resolution	1920 x 1080	1280 x 960
Frame rate	50Hz: 25fps(1920 x 1080), 25fps (1280 x 960), 25fps (1280 x 720) 60Hz: 30fps(1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)	
Image settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser	
BLC	Yes, zone configurable	
ROI	Yes, up to 4 configurable areas	
Network storage	NAS	
Alarm trigger	Motion detection, Dynamic analysis, Tampering alarm	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour	
Security	User Authentication, Watermark	
Standard	ONVIF, PSIA, CGI, ISAPI	
Protection level	IP-66	
Communication interface	1 RJ45 10M / 100M ethernet port	
Reset Button	Yes	
Operating conditions	-30 °C - 60 °C (-22 °F - 140 °F) Humidity 95% or less (non-condensing)	
Power supply	12 V DC ± 10%, PoE (802.3af)	
Power consumption	Max. 7W	
IR Range	30 meters	
Dimensions	60.4x76.9x139.28 mm (2.4" x 3.0" x 5.5")	
Weight	500g (1.1 lbs)	

2MP & 1.3MP CMOS Alarm Pro Cube Camera

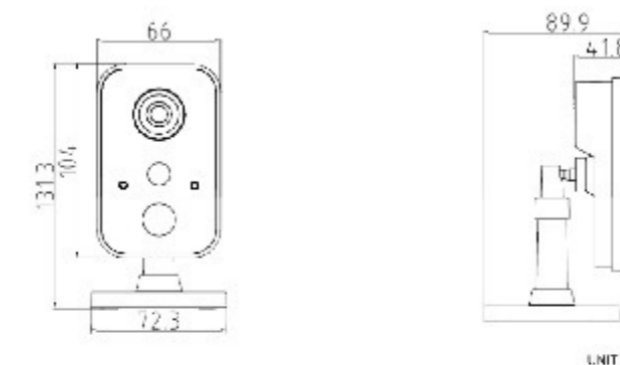
VNC-1291W / VNC-1190W



Key Features

- Up to 2 megapixel (1920x1080@30fps) resolution
- Progressive scan CMOS
- Built-in Micro SD/SDHC/SDXC (64GB)
- IR range approx. 10 meters
- Two-way audio
- Built-in microphone and speaker
- Support Wi-Fi (W SERIES)
- IR cut filter with auto switch
- 3D digital Noise Reduction
- POE (power over ethernet)

Dimensions



Technical Specifications

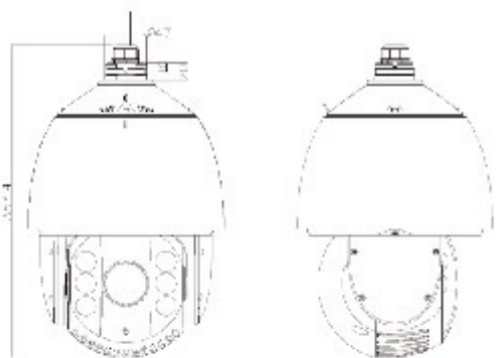
Model NO.	VNC-1291W	VNC-1190W
Image Sensor	1/2.8" Progressive Scan CMOS	
Min. Illumination	0.01Lux @(F1.2) / 0.028Lux @(F2)	
Lens	4mm@ F2.0, Angle of view: 85°	
Day & Night	IR cut filter with auto switch	
Digital Noise Reduction	3D DNR	
Wide Dynamic Range	Digital WDR	
Video Compression	H.264 / MJPEG	
Video Bit rate	32 Kbps - 8 Mbps	
Audio Compression	G.711/G.722.1/G.726/MP2L2	
Audio Bit Rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726)	
Max. Resolution	1920 x 1080	1280 x 960
Frame Rate	50Hz: 25fps(1920 x 1080), 25fps (1280 x 960), 25fps (1280 x 720) 60Hz: 30fps(1920 x 1080), 30fps (1280 x 960), 30fps (1280 x 720)	
Image settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser	
Features	BLC, ROI, Defog	
Local storage	Micro SD/SDHC/SDXC card slot, up to 64 GB	
Network storage	NAS (Support NFS, SMB/CIFS)	
Alarm trigger	Intrusion detection, Line crossing detection Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict	
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour	
General	One-key reset, Flash-prevention, dual stream heartbeat, mirror, password protection, privacy mask watermark, IP address filtering, Anonymous access	
System compatibility	ONVIF, PSIA, CGI, ISAPI	
Communication interface	1 RJ45 10M / 100M ethernet port	
Alarm input/output	I/I	
Wireless Standards	IEEE802.11b, 802.11g, 802.11n	
Frequency Range	2.4 GHz - 2.4835 GHz	
Channel Bandwidth	20/40MHz Support	
WIFI Protocols	802.11b: CCK, QPSK, BPSK / 802.11g/n: OFDM	
WIFI Security	64/128-bit WEP, WPA/WPA2, WPA-PSK/WPA2-PSK	
Wireless Range	50m (depend on environment)	
Operating conditions	-30 °C - 60 °C (-22 °F - 140 °F) Humidity 95%	
Power supply	DC12V/PoE(802.3af)	
Power consumption	5.5W MAX	
IR range	10 meters	
Dimensions	72.3x89.9x131.3	
Weight	400g(0.88lbs)	

* (W Series) Support Wi-Fi

VNC-4285 / VNC-4185

Key Features

- 1/2.8" Progressive Scan CMOS
- 1080P Full HD resolution
- 30X optical zoom, 16X digital zoom
- Up to 100m IR distance
- True Day/Night, 3D DNR, Digital WDR
- 3D intelligent positioning
- 24VAC / High-PoE power supply

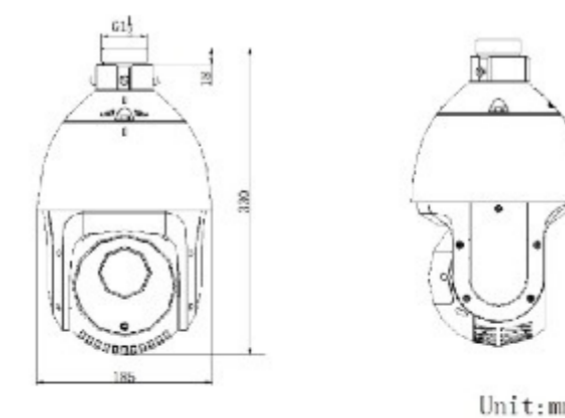
Dimensions

Technical Specifications

Model No	VNC-4285	VNC-4185
Image Sensor	1/2.8" Progressive Scan CMOS	
Effective Pixel	2230K pixels	
Min. Illumination	Color: 0.05lux (F1.6) / B/W: 0.01lux (F1.6)	
Features	Privacy Mask, Digital Zoom 16x, HLC, BLC, DWDR 3D DNR, IR Cut Filter, Dual Streams	
Focal Length	4.3 - 129mm, 30X	
Angle of View	65.1 - 2.34 degree (Wide-Tele)	
Pan/Tilt Range	Pan: 360° endless; Tilt: -15° - 90° (Auto Flip)	
Pan/Tilt Speed	Pan: Manual Speed: 0.1°-160°/s, Preset Speed: 240°/s Tilt: Manual Speed: 0.1°-120°/s, Preset Speed: 200°/s	
Number of Preset	256	
Park Action	Pattern/Pan scan/Tilt scan/Frame scan Panorama scan/Random scan	
Patrol	8 patrols, up to 32 presets per patrol	
Preset Freezing	Support	
Scheduled Task	Preset / Patrol / Pattern / Pan scan / Tilt scan Random scan / Frame scan / Panorama scan Dome reboot/Self-test action/Alarm output	
IR Distance	Up to 100m	
IR Intensity	Automatically adjusted, depending on zoom ratio	
Audio input	1 Mic in/Line in interface	
Audio output	1 Audio output interface, Line level, impedance: 600Ω	
Ethernet	10Base-T / 100Base-TX, RJ45 connector	
Max. image resolution	1920x1080	1280 x 960
Frame Rate	50Hz: 25 fps (1920x1080), 25 fps (1280x960) 25 fps (1280x720) 60Hz: 30 fps (1920x1080) 30 fps (1280x960), 30 fps (1280x720)	
Image Compression	H.264/MJPEG	
Audio Compression	G.711u / G.711a / G.726 / MP2L2	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP UDP, IGMP, ICMP, DHCP, PPPoE	
Simultaneous Live View	Up to 6	
Mini SD Memory Card	Micro SD slot, up to 32GB	
User/Host Level	Up to 32, 3 Levels: Administrator, Operator, User	
Application programming	Open-ended API, support Onvif, PSIA and CGI	
Web Browser	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+	
Power	-A: 24 VAC, max. 30W -AE: High-PoE & 24 VAC, max. 30W	
Working temperature	-30 °C - 65°C (-22°F - 149°F) Humidity 90%	
Protection Level	IP66, TVS 4,000V lightning protection, surge protection and voltage transient protection	
Dimensions	Φ220x353.4mm (Φ8.66"x13.91") (Outdoor)	
Weight	Approx. 5.5kg (12.13lbs)	

VNC-2281 / VNC-2181

Key Features

- 1/2.8" Progressive Scan CMOS
- 1080P Full HD resolution
- 20X Optical Zoom
- DWDR
- 3D intelligent positioning function
- Support EZVIZ cloud P2P
- Up to 150m IR distance
- Hi-PoE / 24VAC power supply
- Support BNC output

Dimensions

Technical Specifications

Model No	VNC-2281	VNC-2181
Image Sensor	1/2.8" Progressive Scan CMOS	
Min. Illumination	F1.5, AGC On: Color: 0.02 lux, B/W: 0.002 lux	
Features	Privacy Mask, Digital Zoom 16x, HLC, BLC, DWDR 3D DNR, IR Cut Filter, Dual Streams	
Focal Length	4.7 - 94mm, 20x	
Angle of View	58.3 - 3.2 degree (Wide-Tele)	
Pan/Tilt Range	Pan: 360° endless; Tilt: -15° - 90° (Auto Flip)	
Pan/Tilt Speed	Pan: Manual : 0.1°-400°/s, Preset Speed: 400°/s Tilt: Manual : 0.1°-200°/s, Preset Speed: 200°/s	
Number of Preset	300	
Park Action	Pattern/Pan scan/Tilt scan/Frame scan Panorama scan/Random scan	
Patrol	8 patrols, up to 32 presets per patrol	
Scheduled Task	Preset / Patrol / Pattern / Pan scan / Tilt scan Random scan / Frame scan / Panorama scan	
IR Distance	Up to 150m	
IR Intensity	Automatically adjusted, depending on zoom ratio	
Alarm I/O - Trigger	2/I - Intrusion detection, Line crossing detection Audio exception detection, Motion detection	
Alarm Action	Preset, Patrol, Pattern, Recording, Relay output Upload center, Upload FTP, Email linkage	
Audio input	1 Mic in/Line in interface	
Audio output	1 Audio output interface, Line level, impedance: 600Ω	
Ethernet	10Base-T / 100Base-TX, RJ45 connector	
Max. image resolution	1920x1080	1280 x 960
Frame Rate	50Hz: 25 fps (1920x1080), 25 fps (1280x960) 25 fps (1280x720) 60Hz: 30 fps (1920x1080) 30 fps (1280x960), 30 fps (1280x720)	
Image Compression	H.264/MJPEG	
Audio Compression	G.711u / G.711a / G.726 / MP2L2	
Protocols	IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP UDP, IGMP, ICMP, DHCP, PPPoE	
Simultaneous Live View	Up to 20 users	
Mini SD Memory Card	Micro SD slot, up to 32GB	
User/Host Level	Up to 32, 3 Levels: Administrator, Operator, User	
Application programming	Open-ended API, support Onvif, PSIA and CGI	
Web Browser	IE 7+, Chrome 18+, Firefox 5.0+, Safari 5.02+	
Power	High-PoE 24 VAC, Max. 30W	
Working temperature	-30 °C - 65°C (-22°F - 149°F) Humidity 90%	
Protection Level	IP66, TVS 4,000V lightning protection, surge protection and voltage transient protection	
Dimensions	Φ266.6(mm) x 365.2(mm)	
Weight	4kg (8.81lbs)	

4K Smart Bullet Camera

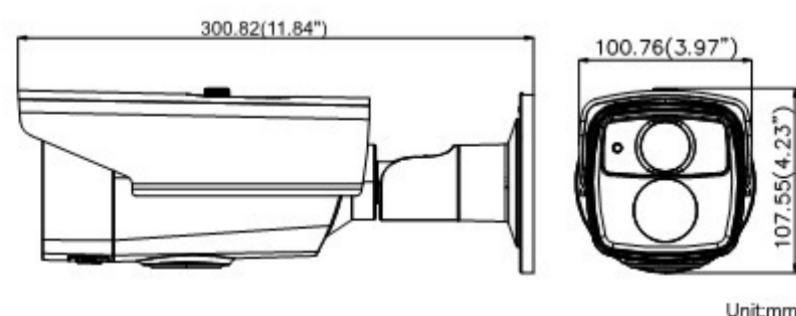
VNC-6830



Key Features

- 1/1.7" Progressive Scan CMOS
- 4096 x 2160@22fps framerate
- Slow shutter
- DWDR
- 3D DNR
- Up to 50m IR range
- Motorized lens with Smart Focus
- Built-in heater (H Series)
- Audio/alarm IO (S Series)
- Support 128G on-board storage
- DC12V/PoE
- IP 67

Dimensions



Unit:mm

Technical Specifications

Model No	VNC-6830
Image Sensor	1/1.7" Progressive Scan CMOS
Min. Illumination	0.009 Lux @(F1.2), 0.012 Lux @(F1.4), 0 Lux with IR
Shutter Time	1s - 1/100,000s
Lens	2.8-12mm @ F1.4 angle of view: 96.0°-32.6°
Lens Mount	AF automatic focusing and motorized zoom lens
Video Compression	H.264+/H.264/MP2L2
Video bit rate	32 Kbps - 16 Mbps
Audio Compression	G.711/G.722.1/G.726/MP2L2
Audio bit rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726)
Max. resolution	4096 x 2160
Frame rate	50Hz: 22fps(4096x2160), 25fps (3840x2160), 1920x1080, 1280x720) 60Hz: 22fps (4096x2160) 24fps (3840x2160), 30fps(1920x1080, 1280x720)
Features	BLC/3D DNR/ROI/Defog/DWDR/ICR/Reset Key
Image settings	Rotate mode, Saturation, Brightness, Contrast adjustable by client software or web browser
Network storage	NAS (Support NFS,SMB/CIFS), ANR
Alarm trigger	Motion detection, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Protocols	TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Security	User Authentication, Watermark, IP address filtering, Anonymous access
Standard	ONVIF (PROFILE S, PROFILE G), PSIA, CGI, SAPI
Audio (-S)	1-ch 3.5 mm audio in (Mic in/Line in)/out interface
Communication Interface	1 RJ45 10M/100M/1000M Ethernet port
Alarm (-S)	1 input, 1 output (up to DC24V 1A or AC110V 500mA)
Video Output (-S)	1 Vp-p composite output (75 Ω/BNC)
On-board storage	Built-in Micro SD/SDHC/SDXC slot, up to 128GB
Noise Filtering	Support
Audio I/O	Support dual audio track, stereo
Audio Sampling Rate	16kHz / 32kHz / 44.1kHz / 48kHz
Smart Features	Behavior Analysis, Line Crossing Detection, Region Exiting, Intrusion Detection, Region Entrance Unattended Baggage, Object Removal, Statistics Exception Detections, Recognition
Protection Level	IP 67
Operating Conditions	-30°C -60 °C (-22 °F -140 °F), Humidity 95%
Power Supply	12 V DC ± 10%, PoE (802.3af)
IR Distance	Up to 50m
Power Consumption	Max. 12 W
Dimensions	100x103.9x311.8mm (3.94" x 4.09" x 12.28")
Weight	2000 g (4.41lbs)

4MP Compact Fisheye Network Camera

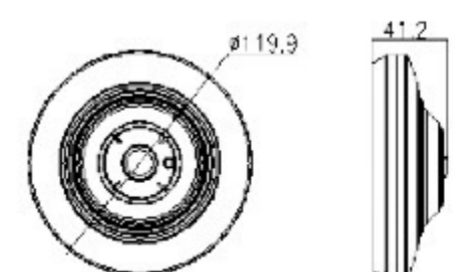
VNC-6420



Key Features

- 1/3" Progressive Scan CMOS
- Up to 4 megapixel resolution
- Fisheye & PTZ view
- 3D DNR
- IR range approx. 8meters (I Series)
- Support Wi-Fi (W Series)
- Support WPS configuration with one touch
- Audio & alarm I/O (A Series)
- Support 128G on-board storage
- 12 VDC ± 10% / PoE

Dimensions



unit: mm

Technical Specifications

Model No	VNC-6420
Image Sensor	1/3" Progressive Scan CMOS
Min. Illumination	Color: 0.01lux @(F1.2), 0.018lux @(F1.6), 0 lux with IR
Shutter Speed	1/3 s - 1/100,000 s
Slow Shutter	Support
Lens	1.6mm, F1.6 Angle of view: 186°(horizontal), 106°(vertical)
Lens Mount	M12
Day & Night	Electronic (-I: ICR)
Video Compression	H.264 / MJPEG
H.264 Type	Baseline Profile / Main Profile
Video Bit rate	32 Kbps - 8 Mbps
Audio Compression	G.711/G.722.1/G.726/MP2L2
Audio Bit Rate	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726)
Max. Resolution	2560 x 1440
Frame Rate	50Hz: 12.5fps(2560x1440), 25fps(1920x1080, 1280x720) 60Hz: 15fps(2560x1440) 30fps(1920x1080, 1280x720)
Image Enhancement	BLC/3D DNR/ROI/Defog
Image settings	Saturation, Brightness, Contrast, Hue, Sharpness, AGC, White Balance
Day/Night Switch	Auto/Schedule/Triggered by Alarm In
Network storage	NAS (Support NFS,SMB/CIFS) Micro SD/SDHC/SDXC card slot, up to 128GB
Alarm trigger	Line Crossing, Intrusion detection, Motion detection, Dynamic analysis, Tampering alarm, Network disconnect, IP address conflict, Storage exception
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1X, QoS, IPv6, Bonjour
Security	User Authentication, Watermark, IP address filtering, Anonymous access
Standard	ONVIF (PROFILE S, PROFILE G), PSIA, CGI, SAPI
Operating conditions	-10 °C -40 °C (14 °F -104 °F), Humidity 95% or less (non)
Power supply	12 VDC ± 10% / PoE (802.3af)
Power consumption	Max. 5.55 W
IR range	-I: 8m
Dimensions	ø19.9 x 41.2 (ø4.72" x 1.62")
Weight	600g (1.32lbs)

- * I : IR range (optional)
- * W: Support Wi-Fi (optional)
- * S : audio & alarm I/O (optional)

SPECIAL ITS CAMERA

6MP / 2MP Intelligent Traffic System Camera

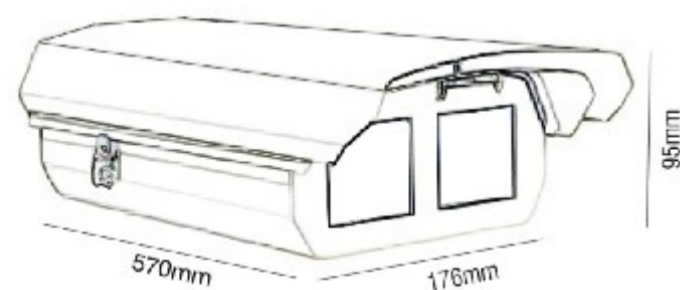
VNC-6610 / VNC-6210



Key Features

- 6MP, 3032 H x 2008 V / 2MP, 1600 H x 1200 V
- 1" (10.0mm) Progressive CCD, Target Size: 8.80mm (H) x 6.60mm (V)
- H.264H, H.264M, H.264B, MJPEG
- 3D Noise Reduction
- 1 RS232 serial port, 3 Radar serial (RS232) serial port
- 1 Vehicle inspection/Signal detector port (Rs485)
- 2, 10/100/1000M Ethernet port
- IP 66 Standard

Dimensions



Technical Specifications

Model No	VNC-6610 VNC-6210
Resolution	VNC-6610 : 6MP, 3032 H x 2008 V VNC-6210 : 2MP, 1600 H x 1200 V
Image Sensor	1" (10.0mm) Progressive CCD, Target Size: 8.80mm (H) x 6.60mm (V)
Dynamic range	64 dB
Image Compress Mode	JPEG
Compression	VNC-6610 : H.264H, H.264M, H.264B, MJPEG VNC-6210 : H.264
Video Resolution	VNC-6610 : 3032x2008, 1600x1200, 1280x720, DI VNC-6210 : 1600x1200, 1280x720, DI, CIF
Video Frame Rate	25 FPS
Camera Speed Shutter	1/25-1/100000
Smear Suppression	Support
Multi-Channel Integration	Support
Edge Enhancement	Support
Dead Pixel Correction	Support
Noise Reduction	3D Noise Reduction
Auto Exposure	Fully auto/Custom interval Auto/Custom
Auto White Balance	Fully auto/color temperature range auto/Custom
Holographic Dual-shutter	All image and videos ISC parameters
Day/Night	Auto ICR / Color/B/W
Loop I/O input	8, optical coupling input (switch)
Alarm Input /Output	1 I/O input / I/O output
Wiper controller output	1 Loop, relay output
External frequency source	Support - 12-36Vp-p or AC12-24V
LED Light	2 Loop, Frequency can be set
Flash Lamp	5 Loop, Opt coupler signal output
Video signal interface	1 CVBS/HD-SDI port
Network interface	2, 10/100/1000M Ethernet port
Data interface	1 RS232 serial port, 3 Radar serial (RS232) serial port
Auto Iris	1 Vehicle inspection/Signal detector port (Rs485)
Loop / Radar Trigger	Support
Video Detection Trigger	Support
License Plate Recognition	Support
SD Card Storage	Support
Remote Control Function	Through Web client config and control
Image Records	Video/Image with watermark
Power Supply	DC 12V
External Frequency	Support, Sync phase support fine-tuning
Synchronization Function	Support, Sync phase support fine-tuning
Power Consumption	<15W (without Adapter)
Dimension	176mm×95mm×570mm(W×H×L)
Weight	7.8 Kg

SPECIAL ITS CAMERA

8MP Intelligent Traffic System Camera

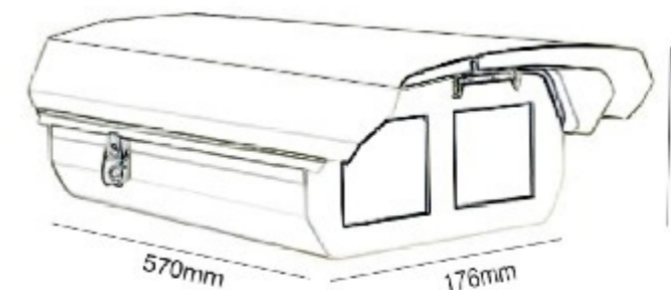
VNC-6810



Key Features

- 8MP, 3296 H x 2472 V
- 4/3" progressive CCD
- H.264 standard, main profile 5.0
- 3D Noise Reduction
- 1 RS232 serial port, 3 Radar serial (RS232) serial port
- 1 Vehicle inspection/Signal detector port (Rs485)
- 2, 10/100/1000M Ethernet port
- IP 66 Standard

Dimensions



Technical Specifications

Model No	VNC-6810
Resolution	8MP, 3296 H x 2472 V
Image Sensor	4/3" progressive CCD
Dynamic range	64 dB
Image Compress Mode	JPEG
Compression	H.264 standard, main profile 5.0
Video Resolution	3296 x 2536
Video Frame Rate	16 FPS
Camera Speed Shutter	1/16-1/100000
Smear Suppression	Support
Multi-Channel Integration	Support
Edge Enhancement	Support
Dead Pixel Correction	Support
Noise Reduction	3D Noise Reduction
Auto Exposure	Fully auto/Custom interval Auto/Custom
Auto White Balance	Fully auto/color temperature range auto/Custom
Holographic Dual-shutter	All image and videos ISC parameters
Day/Night	Auto ICR / Color/B/W
Loop I/O input	8, optical coupling input (switch)
Alarm Input /Output	1 I/O input / I/O output
Wiper controller output	1 Loop, relay output
External frequency source	Support - 12-36Vp-p or AC12-24V
LED Light	1 Loop, Frequency can be set
Flash Lamp	6 Loop, Opt coupler signal output
Video signal interface	1 CVBS/HD-SDI port
Network interface	2, 10/100/1000M Ethernet port
Data interface	1 RS232 serial port, 3 Radar serial (RS232) serial port
Auto Iris	Support(DC Auto)
Loop / Radar Trigger	Support
Video Detection Trigger	Support
License Plate Recognition	Support
SD Card Storage	Support
Remote Control Function	Through Web client config and control
Image Records	Video/Image with watermark
Power Supply	DC 12V
External Frequency	Support, Sync phase support fine-tuning
Synchronization Function	Support, Sync phase support fine-tuning
Power Consumption	<20W (without Adapter)
Dimension	176mm×95mm×570mm(W×H×L)
Weight	7.8 Kg

PROFESSIONAL NETWORK VIDEO RECORDER

256 Channel Network Storage Device

VNR-25606



Key Features

- High performance with 64 bit RISC processor
- Up to 16 HDD, each disk up to 4TB capacity
- Support up to 180-ch 4CIF real-time recording
- iSCSI/NFS/CIFS/FTP/HTTP/AFP protocols
- RAID 0, 1, 3, 5, 10, 50 and HDD hotswap supported
- Dual Gigabit network interfaces
- Modularization and redundant power design for highest reliability

Rear Panel



Technical Specifications

Model No	VNR-25606
Processor	64-bit multi-core processor
High-speed buffer	4GB (expandable to 8G)
Record + Playback	256-ch (2Mps)
Operating system	Windows, Linux, Solaris, HP-UX, AIX, MacOS
Supported Audio	OggVorbis
Encoding Standard	
Audio Output	1-ch BNC (Linear level, 600Ω)
HDD slot	16
HDD interface	SATA /1TB,2TB,3TB,4TB
Hot-swap disk	Supported
Disk management	SMART. ((Self-Monitoring, Analysis and Reporting Technology)
LUN management	NAS Volume, iSCSI Volume, Record Volume
Data protection	WORM tamper-proof, Real-time backup of system information, LUN clone
Recording type	Continuous/ Manual / Main and Sub Stream Motion / Sensor, etc.
Recording backup	Local backup; Remote backup
Recording protection	Lock key video file for protection, N+1 hot spare system, ANR, video loss alarm
Download mode	Quick download, batch download, segment download, merging download
Management method	Web-based GUI, integrated management of multiple units, CLI serial port
Alarm type	Sound, Flash LED, Email, SMS, Warning on device management page
Log download	Auto-down load by USB flash drive, Remote backup via web browsing
Protocol	RTSP / ONVIF / PSIA / iSCSI / NFS / CIFS / FTP HTTP / AFP
Data port	2 (can be expanded to 6), 10M/100M/1000M self-adaptive Ethernet interface
Management port	1, 10M/100M/1000M self-adaptive Ethernet
SAS expansion port	1 (6Gbps)
VGA output	1
COM interface	2 (1 for hyper terminal and 1 for alarm/UPS)
Power supply	Redundant (1+1); single power available
Power consumption	Max.460W (with hard disk, redundant power)
Temperature	Operating: 5°C-40°C; Storage: -20°C-70°C
Humidity	Operating: 20%-80% RH
Chassis	Standard 19-inch rack-mounted 3U chassis
Dimensions (W×H×D)	440×132×480mm
Weight	Approx.20Kg (without hard disk, redundant power)

PROFESSIONAL NETWORK VIDEO RECORDER

64 / 32 Channel NVR

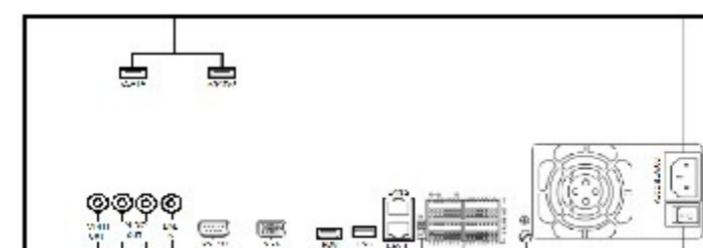
VNR-6406 / VNR-3206



Key Features

- Up to 64 network cameras can be connected
- Support live view, storage, and playback of the connected camera at up to 6 megapixels resolution
- Simultaneous HDMI, VGA and CVBS outputs
- Up to 16-ch synchronous playback at 720P resolution
- Locking and unlocking record files.
- Up to 16 SATA hard disks and 2 eSATA disks
- 2 self-adaptive 10M/100M/1000M network interfaces

Rear Panel



Technical Specifications

Model No	VNR-6406	VNR-3206
IP video input	VNR-6406 : 64-Ch VNR-3206 : 32-Ch	
Two-way audio	1-ch, BNC (2.0 Vp-p, 1kΩ)	
Incoming bandwidth	200Mbps / 100Mbps (when RAID is enabled)	
Outgoing bandwidth	160Mbps / 100Mbps (when RAID is enabled)	
Remote connection	128	
Recording resolution	6MP/5MP/3MP/1080P/UXGA/720P/VGA 4CIF/DCIF/2CIF/CIF/QCIF	
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)	
HDMI output	1-ch, resolution: 1920 × 1080P /60Hz, 1920×1080P 50Hz, 1600 × 1200/60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
Audio output	2-ch, BNC (Linear, 600Ω)	
Live view / Playback resolution	6MP /5MP /3MP /1080P /UXGA /720P /VGA 4CIF /DCIF /2CIF /CIF /QCIF	
Capability	16-ch@720P / 8-ch@1080P	
SATA	16 SATA interfaces for 16 HDDs	
eSATA	2 eSATA interfaces	
Capacity	Up to 4TB capacity for each HDD	
Array type	RAID0, RAID1, RAID5, RAID10	
Number of array	16	
Network interface	2 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet	
Serial interface	RS-232; RS-485; Keyboard	
USB interface	3 × USB 2.0	
Alarm in/out	16/4	
Power supply	100 - 240 VAC, 50 - 60 Hz	
Consumption	≤ 45 W	
Working temperature	-10 °C - +55 °C (14°F - 131°F)	
Working humidity	10 % - 90 %	
Chassis	19-inch rack-mounted 3U chassis	
Dimensions (W×D×H)	445 × 496 ×146 mm (17.5" ×19.5" × 5.7")	
Weight	≤ 12.5 Kg (27.56 lb)	

VNR-3205P / VNR-1605P

Key Features

- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920x1080P resolution
- HDD quota and group management

Rear Panel

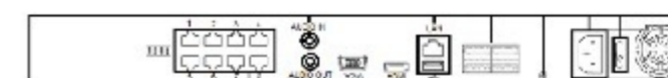
Technical Specifications

Model No	VNR-3205P	VNR-1605P
IP video input	VNR-3205P : 32-Ch VNR-1605P : 16-Ch	
Two-way audio input	1-ch, BNC (2.0 Vp-p, 1kΩ)	
Incoming bandwidth	VNR-3205P : 200 Mbps VNR-1605P : 100 Mbps	
Outgoing bandwidth	VNR-3205P : 240 Mbps VNR-1605P : 160 Mbps	
Remote connection	I28	
Recording resolution	5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF 2CIF/CIF/QCIF	
Frame rate	Main stream: 25 fps (P) / 30 fps (N) Sub-stream: 25 fps (P) / 30 fps (N)	
CVBS output	1-ch, BNC (1.0 Vp-p, 75 Ω) Resolution: 704 × 576 (PAL); 704 × 480 (NTSC)	
HDMI output	1-ch, resolution: 1920 × 1080P /60Hz, 1920 × 1080P 50Hz, 1600 × 1200 /60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz, 1024 × 768 /60Hz	
VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 60Hz, 1280 × 1024 /60Hz, 1280 × 720 /60Hz 1024 × 768 /60Hz	
Audio output	2-ch, BNC (Linear, 600Ω)	
Live view / Playback resolution	5MP /3MP /1080P /UXGA /720P /VGA /4CIF DCIF /2CIF /CIF /QCIF	
Capability	16-ch@720P, 8-ch@1080P	
SATA	4 SATA interfaces for 2 HDDs + 1 DVD-R/W (default), or 4HDDs	
eSATA	1 eSATA interface	
Capacity	Up to 4TB capacity for each HDD	
Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet	
Serial interface	RS-232; RS-485; Keyboard	
USB interface	3 × USB 2.0	
Alarm in/out	16 / 4	
Power supply	100 - 240VAC, 6.3A, 50 - 60Hz	
Consumption	VNR-1605P : ≤ 40 W / VNR-3205P : ≤ 45 W	
Working temperature	-10 °C - +55 °C (14°F - 131°F)	
Working humidity	10 % - 90 %	
Chassis	19-inch rack-mounted 1.5U chassis	
Dimensions(W × D × H)	445 × 390 × 70 mm	
Weight(without hard disk)	≤ 4 Kg /8.82 lb (without hard disk or DVD-R/W)	

VNR-1605 / VNR-805 / VNR-405

Key Features

- Embedded Plug & Play NVR
- Third-party network cameras supported
- Up to 5 Megapixels resolution recording
- HDMI and VGA output at up to 1920x1080P resolution
- 4/8/16-ch network cameras can be connected with 25M/50M/100M incoming bandwidth
- Plug & Play with up to 8 independent PoE network interfaces
- Support network detection, including network delay, packet loss, etc

Rear Panel

Technical Specifications

Model N	VNR-1605	VNR-805	VNR-405
IP video input	VNR-1605 : 16-Ch VNR-805 : 8-Ch VNR-405 : 4-Ch		
Two-way audio input	1-ch, RCA (2.0 Vp-p, 1kΩ)		
Incoming bandwidth	VNR-1605 : 100 Mbps VNR-805 : 50 Mbps VNR-405 : 25 Mbps		
Outgoing bandwidth	80 Mbps		
Remote connection	I28		
Recording resolution	5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF 2CIF/CIF/QCIF		
Frame rate	Main stream: 50 fps (P) / 60 fps (N) Sub-stream: 50 fps (P) / 60 fps (N)		
HDMI/VGA output	1-ch, resolution: 1920 × 1080P /60Hz, 1600 × 1200 60Hz, 1280 × 1024 /60Hz, 1280 × 720 60Hz, 1024 × 768 /60Hz		
Audio output	1-ch, RCA (Linear, 1kΩ)		
Live view / Playback resolution	5MP/3MP/1080P/UXGA/720P/VGA/4CIF/DCIF 2CIF/CIF/QCIF		
Capability	VNR-1605: 16-ch@4CIF, 12-ch@720P, 6-ch@1080P VNR-805 : 8-ch@720P, 6-ch@1080P VNR-405 : 4-ch@1080P		
SATA	VNR-1605&VNR-805 : 2 SATA interface for 2HDDs VNR-405 : 1 SATA interface for 1 HDD		
Capacity	Up to 4TB for each disk		
Network interface	1 RJ-45 10 /100 /1000 Mbps self-adaptive Ethernet		
USB interface	1 × USB 2.0 and 1 × USB 3.0		
Alarm in/out	4 / 1		
Interface	VNR-1605 & VNR-805 : 8 independent 100 Mbps PoE network interfaces VNR-405 : 4 independent 100 Mbps PoE network interfaces		
Max. Power	4-Ch : 50W / 8-Ch & 16-Ch : 120W		
Supported standard	AF and AT		
Power supply	16-Ch & 8-Ch : 220V AC / 4-Ch : 48V DC		
Consumption	≤ 10W		
Working temperature	-10 °C - +55 °C (+14 °F- + 131 °F)		
Working humidity	10 % - 90 %		
Chassis	16-Ch & 8-Ch : 19-inch rack-mounted 1U chassis 4-Ch : 1U chassis		
Dimensions(W × D × H)	16-Ch & 8-Ch : 445×290×45mm (17.5×11.4×1.8 inch) 4-Ch : 315 × 230 × 45mm (12.4 × 9.1 × 1.8 inch)		
Weight(without hard disk)	≤ 1 Kg (2.2)		



HD-TVI PRODUCTS

EXIR HD-TVI CAMERA

FULL HD 1080p Outdoor Vari-focal EXIR Bullet Camera

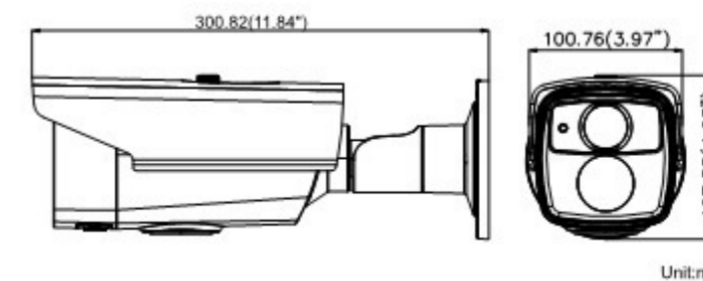
VHC-6230



Key Features

- HD1080P Video Output
- Adopt HDTV Technology
- True Day/Night
- 2.8 - 12mm vari-focal lens
- OSD menu, 3D DNR, Smart IR
- Up to 50m IR distance
- Up the Coax(via coaxial cable)
- 120 dB Wide Dynamic Range

Dimensions



Technical Specifications

Model No	VHC-6230
Image Sensor	1 / 3" Progressive Scan CMOS
Signal System	PAL / NTSC
Effective Pixels	1920(H)*1080(V)
Min. Illumination	0.01 Lux @ (F1.2,AGC ON),0 Lux with IR 0.014 Lux @ (F1.4,AGC ON),0 Lux with IR
Shutter speed	1/25 s to 1/50,000 s
Lens	2.8-12mm @ F1.4 Angle of view: 92° - 32°
Lens Mount	φ14
Day & Night	ICR
Wide Dynamic Range	120 dB
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
CVBS Output	1Vp-p Composite Output(75Ω / BNC)
S / N Ratio	More than 52dB
Scene	Indoor, Outdoor, IndoorI, LOW-LIGHT
Camera ID	On/off (15 characters, position programmable)
AGC	Support
D/N Mode	Color/BW/EXT
White Balance	ATW, AWC-SET, Indoor, Outdoor, Manual
Privacy Mask	On/Off, maximum 8 zones
Motion Detection	On/Off, maximum 4 zones
BLC	Support
Anti-flicker	On/Off
Language	English, Japanese, Korean, German, French, Italian Spanish, Polish, Russian, Portuguese, Chinese
Function	Eclipse, Digital noise reduction, Digital zoom(62x) Slow shutter, Mirror, Defog, Defect pixel, correction SMART D-ZOOM
Working Temperature	-20 °C - 60 °C (-4 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12 VDC ; -A: 12 VDC, 24 VAC
Power Consumption	12V DC: Max. 7W ; 24V AC: Max. 10W
Weather Proof Ratings	IP 66
IR Range	Up to 50m
Communication	Up the coax(need UTC controller) Protocol: Pelco-C(Coaxitron)
Dimensions	300.82*100.76*107.55mm(11.84"*3.97"*4.23")
Weight	700 g (1.54 lbs)

EXIR HD-TVI CAMERA

FULL HD 1080p Vari-focal EXIR Turret Camera

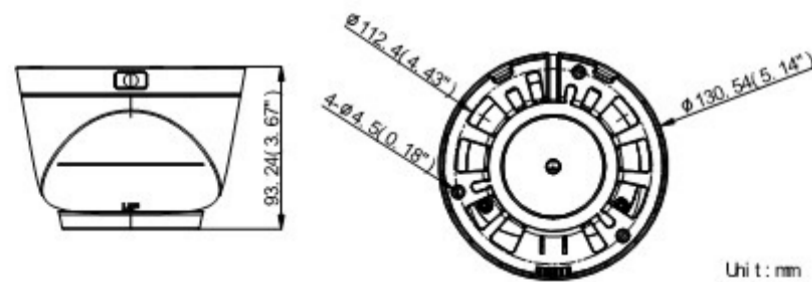
VHC-6270



Key Features

- 2 Megapixel high-performance CMOS
- Analog HD output, up to 1080P resolution
- 2.8-12mm vari-focal lens
- True Day/Night
- OSD menu, 3D DNR, Smart IR
- True WDR, up to 120dB
- EXIR vari-focal technology, up to 50m IR distance
- IP66 weatherproof
- UTC function(Pelco C protocol)

Dimensions



Unit: mm

Technical Specifications

Model No	VHC-6270
Image Sensor	2MP CMOS Image Sensor
Signal System	PAL / NTSC
Effective Pixels	1944(H)*1092(V)
Min. Illumination	0.01 Lux @ (F1.2,AGC ON), 0 Lux with IR 0.014 Lux @ (F1.4,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	2.8-12mm @ F1.4 Angle of view: 103° - 32.1°
Lens Mount	φ14
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 75°, Rotation: 0 - 360°
Day & Night	ICR
Wide Dynamic Range	120 dB
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
CVBS Output	1Vp-p Composite Output(75Ω / BNC)
S / N Ratio	62dB
Scene	Indoor, Outdoor, IndoorI, LOW-LIGHT
Camera ID	On/off (15 characters, position programmable)
AGC	Support
D/N Mode	Color/BW/EXT
White Balance	ATW, AWC-SET, Indoor, Outdoor, Manual
Privacy Mask	On/Off, maximum 8 zones
Motion Detection	On/Off, maximum 4 zones
BLC	Support
Anti-flicker	On/Off
Language	English, Japanese, Korean, German, French, Italian Spanish, Polish, Russian, Portuguese, Chinese
Function	Eclipse, Digital noise reduction, Digital zoom(62x) Slow shutter, Mirror, Defog, Defect pixel, correction SMART D-ZOOM
Working Temperature	-30 °C - 60 °C (-22 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12V Dc 15%
Power Consumption	Max. 7W
Weather Proof Ratings	IP 66
IR Range	Up to 50m
Communication	Up the coax
Dimensions	Φ 130.54 × 93.24 mm (Φ 5.14" × 3.67")
Weight	300 g (0.66 lb)

EXIR HD-TVI CAMERA

FULL HD 1080p EXIR Turret Camera

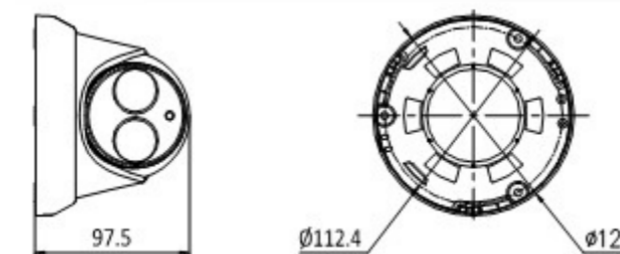
VHC-6260



Key Features

- FULL HD1080P Video Output
- Adopt HDTV Technology
- True Day/Night
- OSD menu, 3D DNR, Smart IR
- EXIR technology, 20m IR distance
- IP66 weatherproof
- Up the Coax(via coaxial cable)
- 120 dB Wide Dynamic Range

Dimensions



Unit: mm

Technical Specifications

Model No	VHC-6260
Image Sensor	1 / 3" Progressive Scan CMOS
Signal System	PAL / NTSC
Effective Pixels	1920(H)*1080(V)
Min. Illumination	0.01 Lux @ (F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	3.6mm (2.8mm, 6mm, 8mm optional) Angle of View:80.9°(3.6mm), 103.5°(2.8mm) 54.3°(6mm),38°(8mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°
Day & Night	ICR
Wide Dynamic Range	120 dB
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
CVBS Output	1Vp-p Composite Output(75Ω / BNC)
S / N Ratio	More than 52dB
Scene	Indoor, Outdoor, IndoorI, LOW-LIGHT
Camera ID	On/off (15 characters, position programmable)
AGC	Support
D/N Mode	Color/BW/EXT
White Balance	ATW, AWC-SET, Indoor, Outdoor, Manual
Privacy Mask	On/Off, maximum 8 zones
Motion Detection	On/Off, maximum 4 zones
BLC	Support
Anti-flicker	On/Off
Language	English, Japanese, Korean, German, French, Italian Spanish, Polish, Russian, Portuguese, Chinese
Function	Eclipse, Digital noise reduction, Digital zoom(62x) Slow shutter, Mirror, Defog, Defect pixel, correction SMART D-ZOOM
Working Temperature	-20 °C - 60 °C (-4 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12 VDC
Power Consumption	Max. 4W
Weather Proof Ratings	IP 66
IR Range	Up to 20m
Communication	Up the coax(need UTC controller) Protocol: Pelco-C(Coaxitron)
Dimensions	φ114.6 × 89.1mm(φ4.5" × 3.5")
Weight	300 g (0.66 lb)

HD-TVI CAMERA

FULL HD 1080p Vari-focal IR Bullet Camera

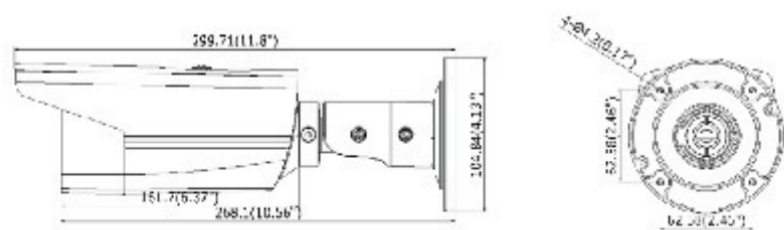
VHC-5230



Key Features

- 2 Megapixel high-performance CMOS
- Turbo HD output, up to 1080P resolution
- 2.8 - 12mm vari-focal lens
- True Day/Night, Smart IR
- Up to 40m IR distance
- IP66 weatherproof
- OSD menu
- 24V AC/ 12V DC (-A)

Dimensions



Technical Specifications

Model No	VHC-5230
Image Sensor	2MP CMOS Image Sensor
Signal System	PAL / NTSC
Effective Pixels	1984(H)*1105(V)
Min. Illumination	0.01 Lux @ (F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	2.8 - 12 mm @ F1.4 Angle of view: 105.2° - 32.8°
Lens Mount	φ14
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
S / N Ratio	62dB
AGC	High / Medium / Low / Off
D/N Mode	Smart IR/Color/BW
White Balance	Auto/Manual
BLC	Support
Language	English
Digital Noise Reduction	Support
Mirror	Support
Working Temperature	-40 °C - 60 °C (-40 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12 VDC±15%
Power Consumption	Max. 4.5W
Weather Proof Ratings	IP 66
IR Range	Up to 40m
Communication	Up the coax
Dimensions	92 × 84.8 × 269.6mm(3.62" × 3.34" × 10.6")
Weight	690g (1.52 lb)

EXIR HD-TVI CAMERA

FULL HD 1080p EXIR Bullet Camera

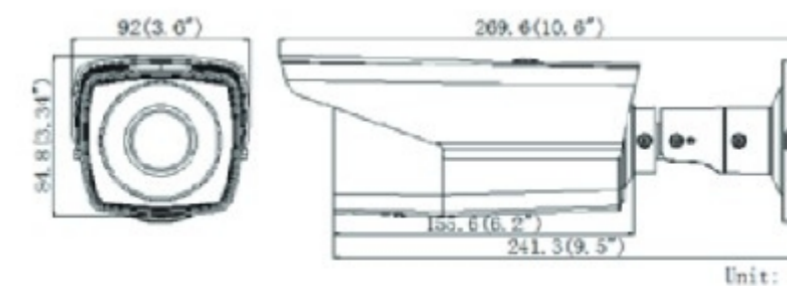
VHC-5221 / VHC-5220



Key Features

- HD1080P Video Output
- Adopt HDTV Technology
- True Day/Night, Smart IR
- EXIR technology, 40/80m IR distance
- IP66 weatherproof
- OSD menu controlled via UTC

Dimensions



Technical Specifications

Model No	VHC-5221	VHC-5220
Image Sensor	2 MP CMOS Image Sensor	
Signal System	PAL / NTSC	
Effective Pixels	1930(H)*1088(V)	
Min. Illumination	0.01 Lux @ (F1.2,AGC ON), 0 Lux with IR	
Shutter speed	1/25(1/30) s to 1/50,000 s	
Lens	3.6mm, 6mm, 8mm, 12mm, 16mm optional Angle of View: 84.3°(3.6mm), 55.4°(6mm) 38.7°(8mm),24.8°(12mm), 19.2°(16mm)	
Lens Mount	M12	
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°	
Day & Night	ICR	
Synchronization	Internal synchronization	
Video Frame Rate	1080p@25fps/1080p@30fps	
HD Video Output	1 Analog HD output	
S / N Ratio	More than 52dB	
AGC	Support	
D/N Mode	Color/BW/EXT	
White Balance	Auto/ Manual	
BLC	Support	
Language	English	
Digital Noise Reduction	Support	
Mirror	Support	
Working Temperature	-40 °C - 60 °C (-40 °F - 140 °F)	
Humidity	Humidity 90%	
Power Supply	12 VDC	
Power Consumption	Max. 5W	
Weather Proof Ratings	IP 66	
IR Range	Up to 80m	Up to 40m
Communication	Up the coax	
Dimensions	86.22*82.05*220.13mm(3.39" × 3.23" × 8.67")	
Weight	430 g (0.95 lb)	

HD-TVI CAMERA

FULL HD 1080p Vari-focal IR Turret Camera

VHC-5270

Technical Specifications



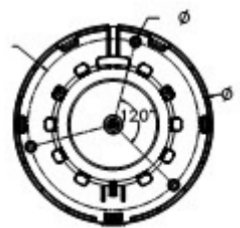
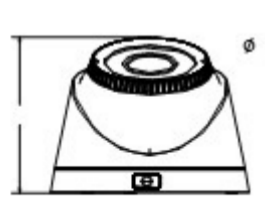
Model No	VHC-5270
Image Sensor	Progressive Scan CMOS
Signal System	PAL / NTSC
Effective Pixels	1930(H)*1088(V)
Min. Illumination	0.01 Lux @ (F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	2.8 - 12 mm @ F1.4 Angle of view: 105.2° - 32.8°
Lens Mount	φ14
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 75°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
S / N Ratio	More than 52dB
AGC	Support
D/N Mode	Color/BW/EXT
White Balance	Auto/Manual
BLC	Support
Language	English
Digital Noise Reduction	Support
Mirror	Support
Working Temperature	-40 °C - 60 °C (-40 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12V DC
Power Consumption	Max. 3.5W
Weather Proof Ratings	IP 66
IR Range	Up to 40m
Communication	Up the coax
Dimensions	Φ130.54 × 102.4mm (Φ5.1" × 4")
Weight	410 g (0.90 lb)



Key Features

- 2 Megapixel high-performance CMOS
- TurboHD output, up to 1080P resolution
- 2.8 -12mm vari-focal lens
- True Day/Night, Smart IR
- Up to 40m IR distance
- IP66 weatherproof
- OSD menu controlled via UTC

Dimensions



Unit: mm

HD-TVI CAMERA

FULL HD 1080p IR Turret Camera

VHC-5260

Technical Specifications



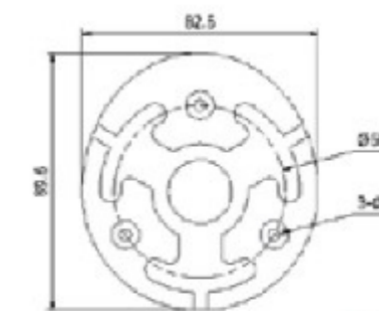
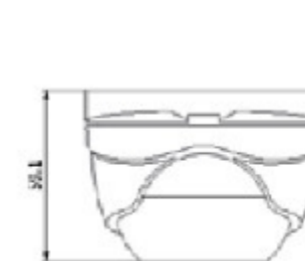
Model No	VHC-5260
Image Sensor	2 MP CMOS Image Sensor
Signal System	PAL / NTSC
Effective Pixels	1930(H)*1088(V)
Min. Illumination	0.01 Lux @ (F1.2,AGC ON), 0 Lux with IR
Shutter speed	1 / 25(1 / 30) s to 1 / 50,000 s
Lens	2.8mm, 3.6mm, 6mm optional Angle of View: 105.8°(2.8mm), 84.3°(3.6mm) 55.4°(6mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 75°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	1080p@25fps/1080p@30fps
HD Video Output	1 Analog HD output
S / N Ratio	More than 52dB
AGC	Support
D/N Mode	Color/BW/EXT
White Balance	Auto/ Manual
BLC	Support
Language	English
Digital Noise Reduction	Support
Mirror	Support
Working Temperature	-40 °C - 60 °C (-40 °F - 140 °F)
Humidity	Humidity 90%
Power Supply	12 VDC
Power Consumption	Max. 3W
Weather Proof Ratings	IP 66
IR Range	Up to 20m
Communication	Up the coax
Dimensions	89.6 × 59.1 mm (3.53" × 2.33")
Weight	400g (0.88 lb)



Key Features

- HD1080P Video Output
- Adopt HDTVI Technology
- True Day/Night, Smart IR
- 20m IR distance
- IP66 weatherproof
- OSD menu controlled via UTC

Dimensions



Unit: mm

HD-TVI CAMERA

Turbo HD 720p Outdoor Vari-focal IR Bullet Camera

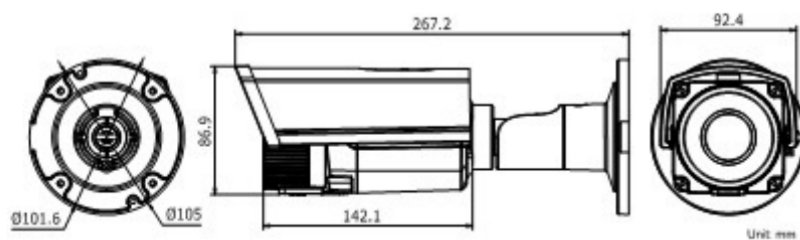
VHC-4130



Key Features

- 1.27 Megapixel high-performance CMOS
- Analog HD output, up to 720P resolution
- Low illumination
- True Day/Night
- 2.8 - 12mm vari-focal lens
- OSD menu, 3D DNR, Smart IR
- Up to 40m IR distance
- IP66 weatherproof
- UTC function(Pelco C protocol)

Dimensions



Technical Specifications

Model NO.	VHC-4130
Image Sensor	1.27MP CMOS Image Sensor
Signal System	PAL / NTSC
Effective Pixels	1305(H)×977(V)
Min. Illumination	0.001 Lux @(F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	2.8 - 12 mm @ F1.4 Angle of view: 92° - 29.3°
Lens Mount	φ14
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°
Day & Night	IR cut filter with auto switch
Synchronization	Internal synchronization
Video Frame Rate	720p@25fps/720p@30fps
HD Video Output	1 Analog HD output
CVBS Output	1Vp-p Composite Output(75Ω/BNC)
S / N Ratio	More than 62dB
Automatic Exposure	Globe AE/DWDR
Auto Gain	Low/Middle/High/Off
D/N Mode	Color/ BW/ EXT
Auto White Balance	Auto / Manual
Private Mask	On/Off, maximum 8 zones
Motion Detection	On/Off, maximum 4 zones
AGC	Support
Language	English
Function	Digital Wide Dynamic Range, Digital Zoom, Mirror 3D Digital Noise Reduction, Brightness, Sharpness
Working Temperature	-30 °C - 60 °C (-22 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12 VDC±15%
Power Consumption	Max. 5W
Weather Proof Ratings	IP 66
IR Range	Up to 40m
Communication	Up the coax
Dimensions	105 × 86.9 × 267.2mm(φ 4.13" × 3.42" × 10.52")
Weight	1350g (2.97 lb)

EXIR HD-TVI CAMERA

Turbo HD 720p EXIR Bullet Camera

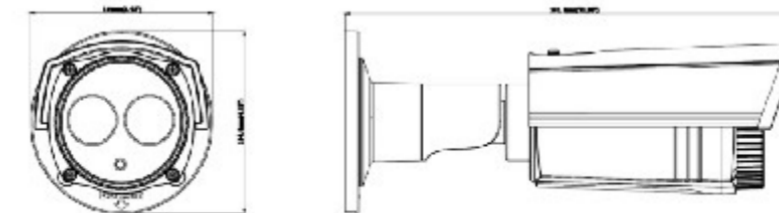
VHC-4120



Key Features

- 1.27 Megapixel high-performance CMOS
- Analog HD output, up to 720P resolution
- Low illumination
- True Day/Night
- OSD menu, 3D DNR, Smart IR
- EXIR technology, up to 40m IR distance
- IP66 weatherproof
- UTC function(Pelco C protocol)

Dimensions



Technical Specifications

Model NO.	VHC-4120
Image Sensor	1.27MP CMOS Image Sensor
Signal System	PAL / NTSC
Effective Pixels	1305(H)×977(V)
Min. Illumination	0.001 Lux @(F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25 s to 1/50,000 s
Lens	3.6mm (2.8mm, 6mm, 8mm, 12mm, 16mm optional) Angle of View: 74.6°(3.6mm), 92.6°(2.8mm) 49°(6mm), 34.5°(8mm), 22.1°(12mm), 17.2°(16mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	720p@25fps/720p@30fps
HD Video Output	1 Analog HD output
CVBS Output	1Vp-p Composite Output(75Ω/BNC)
S / N Ratio	62dB
Automatic Exposure	Globe AE/DWDR
D/N Mode	Color/BW/SMART IR
White Balance	Auto/Manual
Private Mask	On/Off, maximum 8 zones
Motion Detection	Support, maximum 4 zones
AGC	Low/Middle/High/Off
Language	English
Function	Digital Wide Dynamic Range, Digital Zoom, Mirror 3D Digital Noise Reduction, Brightness, Sharpness
Working Temperature	-30 °C - 60 °C (-22 °F - 140 °F)
Humidity	Humidity 90%
Power Supply	12 VDC±15%
Power Consumption	Max. 4W
Weather Proof Ratings	IP 66
IR Range	Up to 40m
Communication	Up the coax
Dimensions	105×104.8×263.1mm(4.13" ×4.13" ×10.36")
Weight	900 g (1.98 lb)

HD-TVI CAMERA

Turbo HD 720p Vari-focal IR Turret Camera

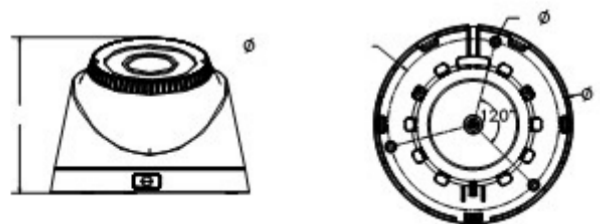
VHC-4170



Key Features

- Analog HD output, up to 720P resolution
- Low illumination
- 2.8 - 12mm vari-focal lens
- True Day/Night
- OSD menu, 3D DNR, Smart IR
- EXIR vari-focal technology, up to 50m IR distance
- IP66 weatherproof
- UTC function(Pelco C protocol)

Dimensions



Unit: mm

Technical Specifications

Model No	VHC-4170
Image Sensor	1.27MP CMOS Image Sensor
Signal System	PAL / NTSC
Effective Pixels	1305(H)×977(V)
Min. Illumination	0.001 Lux @ (F1.2,AGC ON), 0 Lux with IR 0.0014 Lux @ (F1.4,AGC ON), 0 Lux with IR
Shutter speed	1/25 s to 1/50,000 s
Lens	2.8 - 12 mm @ F1.4 Angle of view: 92° - 293°
Lens Mount	φ14
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 75°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	720p@25fps/720p@30fps
HD Video Output	1 Analog HD output
CVBS Output	1Vp-p Composite Output(75Ω/BNC)
S / N Ratio	62dB
Automatic Exposure	Globe AE/DWDR
Lens Type	Auto Iris/ELC/ELC&ALC
AGC	Low/Middle/High/Off
Slow Shutter	Support
White Balance	Auto/Manual
D/N Mode	Color/BW/SMART IR
3D DNR	Low/Middle/High/Off
Motion Detection	Support, maximum 4 zones
Privacy Mask	On/Off, maximum 8 zones
UTC Function	Support
Language	English
Function	Digital Wide Dynamic Range, Digital Zoom, Mirror 3D Digital Noise Reduction, Brightness, Sharpness
Working Temperature	-30 °C - 60 °C (-22 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12 VDC±15%
Power Consumption	Max. 6W
Weather Proof Ratings	IP 66
IR Range	Up to 50m
Communication	Up the coax
Dimensions	Φ 130.5 × 93.2 mm (Φ 5.14" × 3.67")
Weight	380 g (0.84 lb)

EXIR HD-TVI CAMERA

Turbo HD 720p EXIR Turret Camera

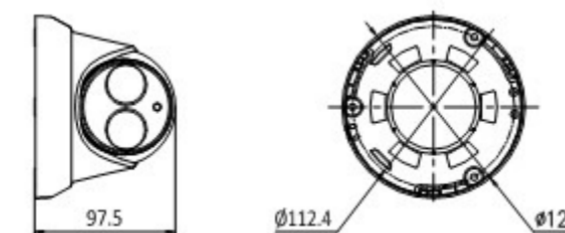
VHC-4160



Key Features

- 1.27 Megapixel high-performance CMOS
- Analog HD output, up to 720P resolution
- True Day/Night
- OSD menu, 3D DNR, Smart IR
- EXIR technology 40m IR distance

Dimensions



Unit: mm

Technical Specifications

Model No	VHC-4160
Image Sensor	1.27MP CMOS Image Sensor
Signal System	PAL / NTSC
Effective Pixels	1305(H)×977(V)
Min. Illumination	0.001 Lux @ (F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	3.6mm (2.8mm, 6mm, 8mm, 12mm, 16mm optional) Angle of View: 74.6°(3.6mm), 92.6°(2.8mm) 49°(6mm), 34.5°(8mm), 22.1°(12mm), 17.2°(16mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	720p@25fps/720p@30fps
HD Video Output	1 Analog HD output
CVBS Output	1Vp-p Composite Output(75Ω/BNC)
S / N Ratio	More than 62 dB
Automatic Exposure	Globe AE/DWDR
Auto Gain	Low/Middle/High/Off
D/N Mode	Color/ BW/ EXT
Auto White Balance	Auto / Manual
Private Mask	On/Off, maximum 8 zones
Motion Detection	On/Off, maximum 4 zones
Language	English
Functions	Digital Wide Dynamic Range, Digital Zoom, Mirror 3D Digital Noise Reduction, Brightness, Sharpness
Working Temperature	-30 °C - 60 °C (-22 °F - 140 °F)
Humidity	Humidity 90%
Power Supply	12 VDC±15%
Power Consumption	Max. 4.5W
Weather Proof Ratings	IP 66
IR Range	Up to 40m
Communication	Up the coax
Dimensions	105×104.8×263.1mm(4.13" ×4.13" ×10.36")
Weight	900 g (1.98 lb)

EXIR HD-TVI CAMERA

TURBO HD 720p EXIR Bullet Camera

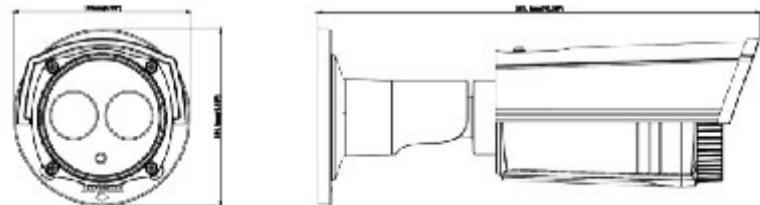
VHC-3120



Key Features

- 1.3 Megapixel high-performance CMOS
- Analog HD output, up to 720P resolution
- True Day/Night
- DNR, Smart IR
- EXIR technology, up to 40m IR distance
- IP66 weatherproof

Dimensions



Technical Specifications

Model No	VHC-3120
Image Sensor	1.3MP CMOS Image Sensor
Effective Pixels	1280(H)*960(V)
Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	3.6mm (2.8mm, 6mm, 8mm, 12mm, 16mm optional) Angle of View: 78°(3.6mm), 97.3°(2.8mm), 51.2°(6mm), 36°(8mm), 23°(12mm), 17.9°(16mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 180°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	720p@25fps/720p@30fps
HD Video Output	1 Analog HD output
S / N Ratio	62dB
Language	English
Working Temperature	-40 °C - 60 °C (-40 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12 VDC±15%
Power Consumption	Max. 4W
Weather Proof Ratings	IP 66
IR Range	Up to 40m
Communication	Up the coax
Dimensions	94.6*83*210.8mm(3.72"*3.27"*8.30")
Weight	580 g (1.29 lbs)

EXIR HD-TVI CAMERA

TURBO HD 720p EXIR Turret Camera

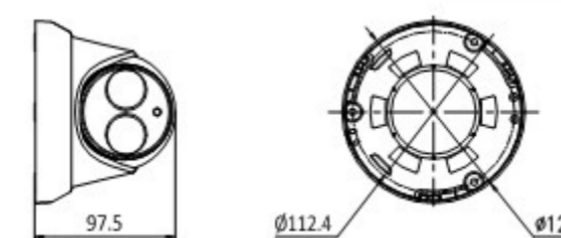
VHC-3160



Key Features

- HD720P Video Output
- Adopt HDTV Technology
- True Day/Night, Smart IR
- EXIR technology 40m IR distance
- IP66 weatherproof

Dimensions



Unit: mm

Technical Specifications

Model No	VHC-3160
Image Sensor	1/3" Progressive Scan CMOS
Effective Pixels	1280(H)*720(V)
Min. Illumination	0.01 Lux @(F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	3.6mm (2.8mm, 6mm, 8mm, 12mm, 16mm optional) Angle of View: 76.88°(3.6mm), 99.73°(2.8mm), 50.1°(6mm), 36.8°(8mm), 24.33°(12mm), 18.4°(16mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 90°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	25 fps (PAL)/ 30 fps (NTSC)
HD Video Output	1 Analog HD output
S / N Ratio	More than 52 dB
Language	English
Working Temperature	-40 °C - 60 °C (-40 °F - 140 °F)
Humidity	Humidity 90%
Power Supply	12 VDC
Power Consumption	Max. 4.5W
Weather Proof Ratings	IP 66
IR Range	Up to 40m
Communication	Up the coax(need UTC controller) Protocol: Pelco-C(Coaxitron)
Dimensions	φ114.6 × 89.1mm(φ4.5" × 3.5")
Weight	300 g (0.66 lb)

HD-TVI CAMERA

Turbo HD 720p IR Bullet Camera

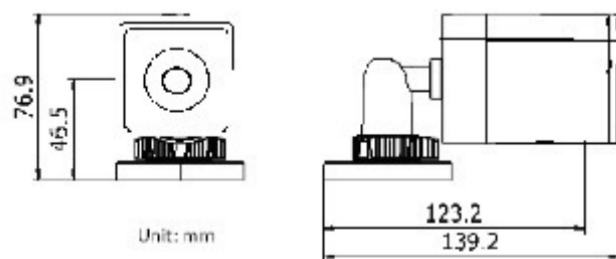
VHC-2120



Key Features

- 1.0 Megapixel high-performance CMOS
- Analog HD output, up to 720P resolution
- True Day/Night
- DNR, Smart IR
- Up to 20m IR distance
- IP66 weatherproof

Dimensions



Technical Specifications

Model No	VHC-2120
Image Sensor	1 MP CMOS Image Sensor
Effective Pixels	1296(H)*732(V)
Min. Illumination	0.1 Lux @(F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	3.6mm (2.8mm, 6mm optional) Angle of View: 70.9°(3.6mm), 92°(2.8mm) 56.7°(6mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 180°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	720p@25fps/720p@30fps
HD Video Output	1 Analog HD output
S / N Ratio	62dB
Language	English
Working Temperature	-40 °C - 60 °C (-40 °F - 140 °F)
Humidity	90% or less (non-condensing)
Power Supply	12 VDC±15%
Power Consumption	Max. 4W
Weather Proof Ratings	IP 66
IR Range	Up to 20m
Communication	Up the coax
Dimensions	Φ70×149.5 mm (Φ2.76" × 5.89")
Weight	290g (0.64 lb)

HD-TVI CAMERA

Turbo HD 720p IR Turret Camera

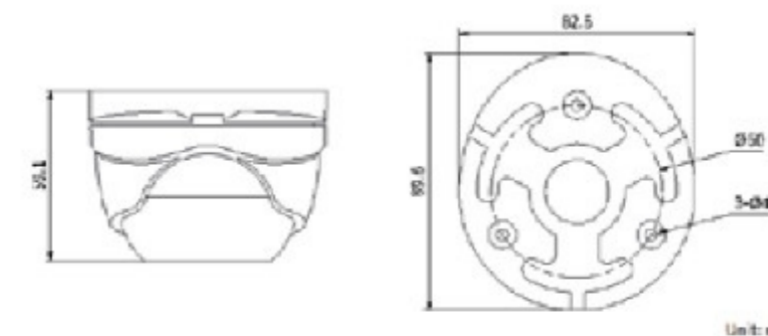
VHC-2160



Key Features

- 1.0 Megapixel high-performance CMOS
- Analog HD output, up to 720P resolution
- True Day/Night
- DNR, Smart IR
- Up to 20m IR distance
- IP66 weatherproof

Dimensions



Technical Specifications

Model No	VHC-2160
Image Sensor	1 MP CMOS Image Sensor
Effective Pixels	1296(H)*732(V)
Min. Illumination	0.1 Lux @(F1.2,AGC ON), 0 Lux with IR
Shutter speed	1/25(1/30) s to 1/50,000 s
Lens	3.6mm (2.8mm, 6mm optional) Angle of View: 70.9°(3.6mm), 92°(2.8mm) 56.7°(6mm)
Lens Mount	M12
Angle Adjustment	Pan: 0 - 360°, Tilt: 0 - 75°, Rotation: 0 - 360°
Day & Night	ICR
Synchronization	Internal synchronization
Video Frame Rate	720p@25fps/720p@30fps
HD Video Output	1 Analog HD output
S / N Ratio	62dB
Language	English
Working Temperature	-40 °C - 60 °C (-40 °F - 140 °F)
Humidity	Humidity 90%
Power Supply	12V DC 15%
Power Consumption	Max. 4W
Weather Proof Ratings	IP 66
IR Range	Up to 20m
Communication	Up the coax
Dimensions	89.6 × 59.1 mm (3.53" × 2.33")
Weight	240g (0.54 lb)

PTZ HD-TVI CAMERA

FULL HD1080p 30x IR Speed Dome Camera

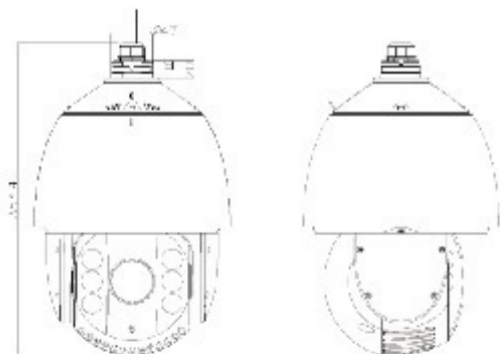
VHC-4280



Key Features

- 0 Lux minimum illumination
- Up to 120m IR distance
- 1/3" high performance CMOS up to 1920x1280 resolution
- 3D intelligent positioning function
- IP66 standard
- RS-485 communication diagnosis
- UTC(Up the Coax) function
- Privacy masks programmable
- 3D DNR, digital WDR
- 8 patrols, up to 32 presets per patrol

Dimensions



Technical Specifications

Model No	VHC-4280
Image Sensor	1/3" CMOS Image Sensor
Max. Image Resolution	1920x1080
Frame Rate	50Hz:25fps(1920x1080) / 60Hz:30fps(1920x1080)
Min. Illumination	Color : 0.02Lux@(F1.6) B/W : 0.002Lux@(F1.6)
White Balance	Auto / Manual / ATW / Indoor / Outdoor
Shutter Time	PAL : 1-1/10,000s / NTSC: 1-1/10,000s
S / N Ratio	≥ 50dB
Functions	3D DNR / DWDR / BLC / ICR / AGC
Digital Zoom	16x
Privacy Mask	8 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen
Focus Model	Auto / Semiautomatic / Manual
Focal Length	4-120mm, 30X
Zoom Speed	Approx.3.0s (Optical Wide-Tele)
Angle of View	58-17 degree (Wide-Tele)
Min. Working Distance	10-1500mm (Wide-Tele)
Aperture	F1.6-F4.4
Pan Range	360° endless
Pan Speed	Pan Manual Speed: 0.1°-160°/s, Pan Preset Speed: 240°/s
Tilt Range	-15°-90° (Auto Flip)
Tilt Speed	Tilt Manual Speed: 0.1°-120°/s, Tilt Preset Speed: 200°/s
Proportional Zoom	Rotation speed can be adjusted automatically according to zoom multiples
Number of Preset	256
Patrol	8 patrols, up to 32 presets per patrol
Pattern	4 patterns, with the total recording time not less than 10 minutes
Park Action	Preset / Patrol / Pattern / Pan scan / Tilt scan Frame Scan / Random scan / Panorama scan
PTZ Position Display	On / Off
RS-485 communication	Support
IR Distance	120 m
IR Intensity	Automatically adjusted
Monitor Output	1 Turbo HD1080p output
UTC function	Support
Language	English
Power supply	24VAC Max. 30W(IR: 9W, Heater: 6W)
Temperature/Humidity	-30 °C-65°C / 90% or less
Protection Level	IP66 standard
Dimensions	Φ220x353.4mm (Φ8.66"x13.91")
Weight	4.5kg(9.92 lbs)

PTZ HD-TVI CAMERA

FULL HD1080p 23x IR Speed Dome Camera

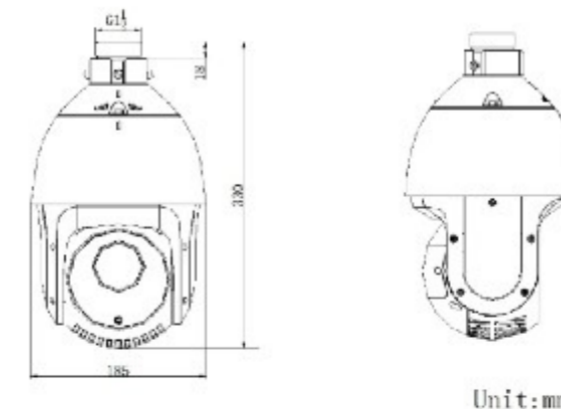
VHC-2280 / VHC-2180



Key Features

- 1/3" Progressive Scan CMOS
- 1920x1080 / 1280x720
- 23X Optical Zoom
- DWDR
- 3D intelligent positioning function
- Up to 150m IR distance
- Support Turbo HD and BNC output

Dimensions



Unit:mm

Technical Specifications

Model No	VHC-2280	VHC-2180
Image Sensor	1/3" Progressive Scan CMOS	
Min. Illumination	Color: 0.05Lux@(F1.4); B/W: 0.005Lux@(F1.4)	
Max. Image Resolution	VHC-2280 : 1920 x 1080	VHC-2180 : 1280 x 720
Focal Length	4-92.0mm, 23x	
Digital Zoom	16X	
Zoom Speed	Approx.3s(Optical Wide-Tele)	
Angle of View	49-2.2 degree(Wide-Tele)	
Min. Working Distance	10-1,000mm(Wide-Tele)	
Aperture Range	F1.4-F3.5	
Focus Mode	Auto / Semiautomatic / Manual	
DWDR	Support	
S / N Ratio	≥ 50dB	
Shutter Time	1-1/10,000s	
AGC	Auto / Manual	
White Balance	Auto / Manual / ATW / Indoor / Outdoor	
Day & Night	IR Cut Filter	
Privacy Mask	8 privacy masks programmable; a maximum of 8 zones can be masked simultaneously on the same video screen	
Enhancement	3D DNR	
Range	Pan:360° endless; Tilt: -15°-90°(Auto Flip)	
Speed	Pan Manual : 0.1°-400°/s, Pan Preset : 400°/s Tilt Manual : 0.1°-120°/s, Tilt Preset : 200°/s	
Number of Preset	256	
Patrol	8 patrols, up to 32 presets per patrol	
Park Action	Preset / Patrol / Pattern / Pan scan Tilt scan / Panorama scan	
RS-485 communication	Support	
IR Distance	Up to 150m	
IR Intensity	Automatically adjusted	
Turbo HD Output	1 turbo HD720P/1080P output, BNC	
CVBS Output	1.0V[p-p] / 75Ω, NTSC (or PAL) composite, BNC	
Alarm Input/Output	2 / 1	
UTC function	Support	
Language	English	
Power supply	24VAC, Max.24W (Heater On),Max. 18W(Heater Off)	
Temperature / Humidity	-30 °C-65°C(-22°F-149°F) / 90% or less	
Protection Level	IP66 standard	
Dimensions	Φ185x330mm (Φ7.28"x12.99")	
Weight	4Kg (8.81lbs)	

VDR-3202 / VDR-1602 / VDR-802

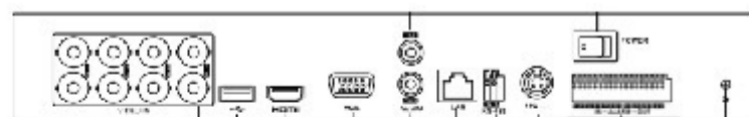
Technical Specifications



Key Features

- H.264 & Dual-stream video compression
- Support both HD-TVI and analog cameras with adaptive access
- Full channel@1080P resolution real-time recording
- HDMI and VGA output at up to 1920x1080P resolution
- Long transmission distance over coax cable
- Support up to 16-ch synchronous playback at 1080P resolution

Dimensions



Model No	VDR-3202	VDR-1602	VDR-802
Video compression	H.264		
Analog and HD-TVI video input	VDR-3202 : 32-Ch / BNC interface (1.0Vp-p, 75 Ω) VDR-1602 : 16-Ch / BNC interface (1.0Vp-p, 75 Ω) VDR-802 : 8-Ch / BNC interface (1.0Vp-p, 75 Ω)		
IP Video Input	2 Ch (Up To 1080p Resolution)		
Supported camera types	720P25, 720P30, 720P50, 720P60, 1080P25, 1080P30, CVBS		
Audio compression	G.711u		
Audio input / Two-way audio in	4-ch, RCA (2.0 Vp-p, 1 KΩ)		
HDMI / VGA output	1920 × 1080 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz		
Encoding resolution	Main stream: 1080P 720P / VGA WDI / 4CIF / CIF Sub-stream: Wdi / 4CIF / CIF / QCIF / QVGA		
Frame rate	Main stream: 1/16 fps - Real time frame rate Sub-stream: 1/16 fps - Real time frame rate		
Video bitrate	32 Kbps-6 Mbps		
Audio output	1-ch, RCA (Linear, 1KΩ)		
Audio bitrate	64 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
Synchronous playback	VDR-3202: 32Ch / VDR-1602: 16 Ch VDR-802 : 8 Ch		
Playback resolution	1080P/720P/VGA/WDI/4CIF/CIF/QVGA/QCIF		
Remote connections	128		
Network protocols	TCP/IP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI, UPnP™, HTTPS		
SATA	VDR-3202: 4SATA / VDR-1602, VDR-802: 2 SATA		
Capacity	Up to 4 TB capacity for each disk		
Network interface	VDR-3202 / VDR-1602 : 1; 10M / 100M / 1000M self-adaptive Ethernet interface VDR-802 : 1; 10M / 100M self-adaptive Ethernet interface		
Serial interface	1; standard RS-485 serial interface, half-duplex		
USB port	2 × USB2.0		
Alarm in/out	VDR-3202, VDR-1602 : 16/4 / VDR-802 : 8/4		
Power supply	12V DC		
Consumption	65W / 45W / 30W		
Working temperature	-10 °C → +55 °C (14 °F - 131 °F)		
Working humidity	10% - 90%		
Chassis	19-inch rack-mounted 15U chassis		
Dimensions (W×D×H)	445 × 390 × 70 mm		
Weight	≤ 2Kg (4.4lb)		

VDR-1601 / VDR-801 / VDR-401

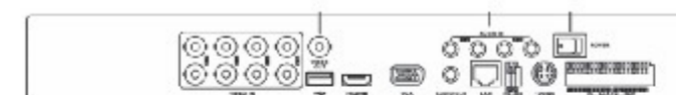
Technical Specifications



Key Features

- H.264 & Dual-stream video compression
- Support both HD-TVI and analog cameras with adaptive access
- Full channel@720P resolution real-time recording
- HDMI and VGA output at up to 1920x1080P resolution
- Long transmission distance over coax cable
- Support up to 16-ch synchronous playback at 1080P resolution

Dimensions



Model No	VDR-1601	VDR-801	VDR-401
Video compression	H.264		
Analog and HD-TVI video input	VDR-1601 : 16-Ch / VDR-801 : 8-Ch / VDR-401 : 4-Ch BNC interface (1.0Vp-p, 75 Ω)		
Supported camera types	720P25, 720P30, 720P50, 720P60, 1080P25, 1080P30, CVBS		
Audio compression	G.711u		
Audio input / Two-way audio in	4-ch, RCA (2.0 Vp-p, 1 KΩ)		
HDMI / VGA output	1920 × 1080 / 60 Hz, 1280 × 1024 / 60 Hz, 1280 × 720 / 60 Hz, 1024 × 768 / 60 Hz		
Encoding resolution	Main stream: 1080P(non-real-time) / 720P / VGA WDI / 4CIF / CIF / Sub-stream: WDI(non-real-time) 4CIF(non-real-time) / CIF / QCIF / QVGA		
Frame rate	Main stream: 1/16 fps - Real time frame rate Sub-stream: 1/16 fps - Real time frame rate		
Video bitrate	32 Kbps-6 Mbps		
Audio output	1-ch, RCA (Linear, 1KΩ)		
Audio bitrate	64 Kbps		
Dual-stream	Support		
Stream type	Video, Video & Audio		
Synchronous playback	VDR-1601 : 16 Ch / VDR-801 : 8 Ch / VDR-401 : 4 Ch		
Playback resolution	1080P/720P/VGA/WDI/4CIF/CIF/QVGA/QCIF		
Remote connections	128		
Network protocols	TCP/IP, PPPoE, DHCP, DNS, DDNS, NTP, SADP, SMTP, SNMP, NFS, iSCSI, UPnP™, HTTPS		
Serial interface	1; standard RS-485 serial interface, half-duplex		
SATA	VDR-1601 : 2 SATA interfaces VDR-801 & VDR-401 : 1 SATA interface		
Capacity	Up to 4 TB capacity for each disk		
Network interface	VDR-1601 : 1; 10M / 100M / 1000M self-adaptive Ethernet interface VDR-801 & VDR-401 : 1; 10M / 100M self-adaptive Ethernet interface		
Alarm in/out	VDR-1601 : 16/4 / VDR-801 : 8/4 / VDR-401 : 4/1		
Power supply	12V DC		
Consumption	VDR-1601 & VDR-801 : ≤ 20W / VDR-401 : ≤ 15W		
Temperature / Humidity	-10 °C → +55 °C (14 °F - 131 °F) / 10% - 90%		
Chassis	1U chassis		
Dimensions (W×D×H)	VDR-1601 : 380 × 290 × 48mm (15.0 × 11.4 × 1.9 inch) VDR-801 & VDR-401 : 315 × 242 × 45mm (12.4 × 9.5 × 1.8 inch)		
Weight	VDR-1601 : ≤ 2Kg (4.4lb) VDR-801 & VDR-401 : ≤ 1.5Kg (3.3lb)		

ACCESSORIES

Network Keyboard Control

VHN-KI30



Key Features

- 7" TFT touch screen at 800x480 resolution
- Speed dome, video decoder & DVR control
- 1-ch HD video stream decoding at 1080p
- Support 15 users, and each can operate up to 256 devices
- USB 2.0 interface for video backup
- Multi protocol: Vertina, Vicon, Panasonic, Samsung, ...

Rear Panel



Technical Specifications

Model No	VHN-KI30
Line in	1-ch, 3.5 mm connector (2.0 Vp-p, 1 kΩ)
Audio out	1-ch, 3.5 mm connector (Linear, 560 Ω)
Network interface	1 RJ45 10M/100M/1000M self-adaptive Ethernet
RS-232 interface	1 RS-232 interface (for parameters configuration and maintenance)
RS-485 interface	1 RS-485 interface
USB interface	1, USB2.0 (for data storage and device upgrade)
LCD	Resolution: 800 × 480
Power supply	12 VDC
Power consumption	≤ 15W
Working temperature	-10 °C - +55 °C (14 °F - 131 °F)
Working humidity	10% - 90%
Dimensions (W×D×H)	110 × 193 × 435 mm
Weight	2 kg

ACCESSORIES

Keyboard Control

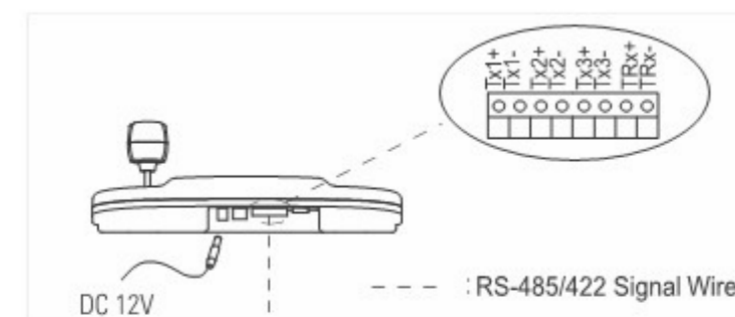
VCU-I200



Key Features

- Control up to 255 PTZ cameras
- Superior system compatibility : Multi protocols support
- OSD menu
- 3D joystick control
- RS-485 and RS-422 compatibility

Dimensions



Technical Specifications

Model No	VCU-I200
Control mode	RS-485 half-duplex mode Baud rate: 1200 - 19200bps
Communication interface	1 RS-485 port
LCD Screen	128mm×44mm
Joystick	3-axis
Speed Control	Joystick (3-axis Twist Zoom)
Compatible Hardware	Vertina, SAMSUNG-T, SAMSUNG-E, PELCO-D/P, Panasonic, Vicon, AD, Honeywell
Maximum cable length	1200m
Power supply	12 VDC
Power consumption	6W
Working temperature	-10°C - +55°C
Working humidity	10% - 90%
Size	280 x 100 x 180 mm 10.63" x 3.94" x 7.09"
Weight	Approx. 0.7Kg (1.54 lb) (Without adapter)

ACCESSORIES

Industrial Managed 24 Port Switch

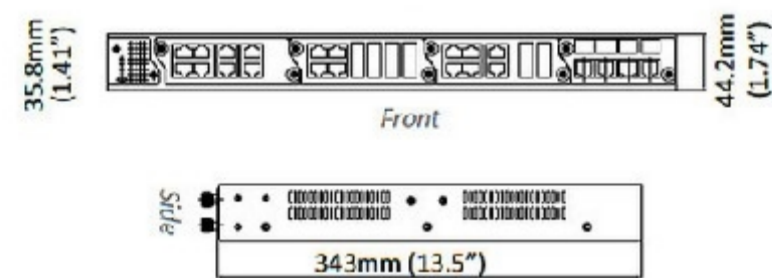
VAS-2404P



Key Features

- Versatile Connectivity
- Hardened Grade
- IEC61850-3 Compliance

Dimensions



Technical Specifications

Model No	VAS-2404P
Management	Interface - CLI, Telnet and Web Browser - SNMP v1/v2c/v3 Firmware and configuration backup via TFTP Supports DHCP Server/Client RMON (Remote monitoring): group 1, 2, 3, 9 Port mirroring: TX/RX and both SFP tx (Digital Diagnostics Monitoring-DDM)
Security	MAC Address by port security Enable/disable port Storm control (broadcast and multicast types) IEEE802.1x LAN access control Remote authentication through RADIUS
Quality of Service (QoS)	Priority Queues: 4 queues per port Traffic classification based on IEEE802.1p CoS WRR (Weighted Round Robin) and strict mode Rate Limiting (Ingress/Egress)
Layer 2 Features	Auto-negotiation for port speed and duplex mode Flow Control - IEEE802.3x full duplex mode - Back-Pressure half duplex mode Redundant Protocol - IEEE802.1D Spanning Tree Protocol-STP - IEEE802.1w Rapid Spanning Tree Protocol-RSTP - IEEE802.1s Multiple Spanning Tree Protocol-MSTP - EtherWAN's Alpha-Ring network fault recovery VLANs - Port-based VLANs - IEEE802.1Q Tag VLANs (128 groups, 4096 VID) - GVRP (GARP VLAN Registration Protocol) - GMRP (GARP Multicast Registration Protocol) Link Aggregation - Static Trunk (8 groups, support MAC base) - IEEE802.3ad Link Aggregation Control Protocol IGMP Snooping IGMP snooping v1/v2/v3
Performance	Switching Capability: 12.8Gbps Packet Buffer Size: 3Mbits MAC Address Table: 8K
Interface	10/100BASE-TX: 24, 16, 8 or 0 port 100BASE-FX: 0, 4, 8, 12, 16, 20 or 24 ports Gigabit: 0, 2 or 4 ports
Operating Temperature	-10°C to 60°C (14°F to 140°F)

ACCESSORIES

Hardened 16 Port Switch

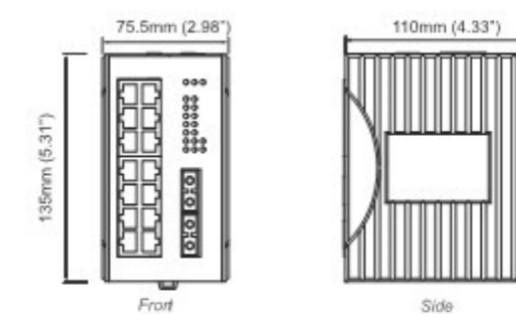
VAS-1602 / VAS-1401



Key Features

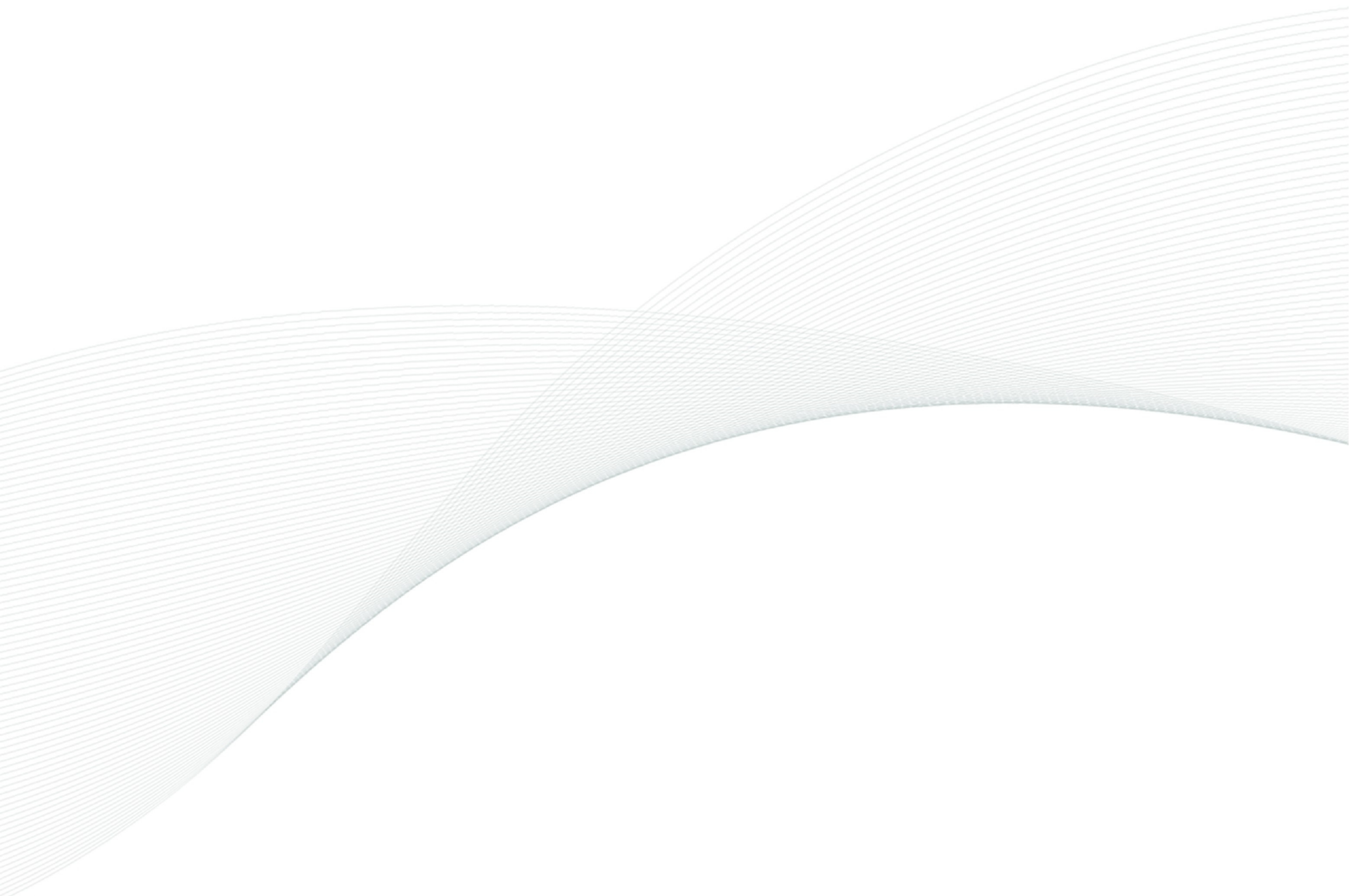
- Hardened Grade
- Versatile mounting Options
- Fiber Connectivity

Dimensions



Technical Specifications

Model No	VAS-1602	VAS-1401
Technology	Standards IEEE802.3 10BASE-T IEEE802.3u 100BASE-TX/100BASE-FX IEEE802.3x Full duplex and flow control	
Forward and Filtering Rate	14,880pps for 10Mbps 148,810pps for 100Mbps	
Packet Buffer Memory	1.625M bits	
Processing Type	Store-and-Forward Auto Negotiation Half-duplex back-pressure and IEEE802.3x full-duplex flow control Auto MDI/MDIX	
Interface Ethernet Ports	VAS-1602 : 10/100BASE-TX: 16 ports VAS-1401 : 10/100BASE-TX: 14 ports 100BASE-FX: 0, 1 or 2 ports	
Operating Temperature	One relay output with current 1A @ 24VDC	
Storage Temperature	-40°C to 75°C (-40°F to 167°F)	
Ambient Relative Humidity	-40°C to 85°C (-40°F to 185°F) 5% to 95% (non-condensing)	



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