V1008-WIR-180 AND V1020-WIR-180 SERIES MULTI-SENSOR NETWORK CAMERAS

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Product at a Glance

- 8 megapixel and 20 megapixel versions; progressive scan CMOS sensor
- Includes four separate camera modules (2 MP or 5 MP) that combine for one IP address output
- The exposure settings for each camera module can be configured independently
- H.265/H.264 compression
- Smart Encoding
- IR illumination; effective distance 90 ft (30 m)
- High-resolution 180° panoramic coverage
- Triple streaming
- Video Content Analysis - VMD and tampering
- 1 alarm input, 1 alarm output
- Two-way audio; 1 audio input, 1 audio output
- True Wide Dynamic Range (T-WDR)
- SD card slot
- Powered by PoE+; 12 VDC; 24 VAC
- Indoor/outdoor; vandal-resistance rated IK10; weatherproof IP66 rated

180 Degree Vision

The V1000 multi-sensor camera series provides a high-resolution panoramic 180˚ view. The fixed dome camera consists of four (4) camera modules (sensors) that work together to offer a view that is perfect for large areas such as airports, perimeter security and city surveillance. The modules are either 2 MP or 5 MP each, to create 8 MP and 20 MP models. Both models include IR illumination that increases visibilty in low-light environments.

Overview

The multi-sensor series provides triple-streaming video and supports H.264/H.265 compression technology, significantly reducing file sizes and conserving valuable network bandwidth. The camera provides motion and tampering detection as well as Smart Encoding, which monitors the amount of motion in a scene, resulting in additional savings in storage requirements and bandwidth without sacrificing video quality.

The multi-sensor cameras are designed for indoor/outdoor security installations. An IR cut filter provides low light sensitivity. The housing is IK10 rated for vandal protection and IP66 for weather resistance.

Installation of the cameras is made easy and cost effective with Power over Ethernet (IEEE 802.3at), which eliminates the need for power cables; 12 VDC and 24 VAC are also accepted.

The camera can be used with Vicon Valerus™ as well as many other popular VMS systems; each VMS may support different camera functions.

Product Descriptions

Resolution	Environment	Model Number
4X 1920 x 1080 pixels (8 megapixel)	Indoor/Outdoor	V1008-WIR-180
4X 2592 x 1944 pixels (20 megapixel)	Indoor/Outdoor	V1020-WIR-180

V1008-WIR-180/V1020-WIR-180 SERIES

SPECIFICATIONS

Model	V1008-WIR-180	V1020-WIR-180
Camera		
Device Type:	Indoor/outdoor multi-sensor panoramic cameras	
Image Sensor:	4X 1/2.7" Sony progressive scan CMOS	4X 1/1.8" Sony progressive scan CMOS
Max Resolution:	4X 1920 x 1080 (2 MP)	4X 2592 x 1944 (5 MP)
Image Settings:	WDR (Wide Dynamic Range). Backlight Compensation (BLC). Configurable brightness, contrast, saturation, sharpness, hue. Mirror. Flip. White balance. Exposure. Gain Control. DNR. Privacy masks (5). Day/night, ICR. Tampering. Motion detection. Audio. Event alarm handler and notification. Global Mode. Defog. ROI. Text overlay.	
Video Content Analysis:	VMD; tampering	
Electronic Shutter Speed:	1/3.75 - 1/10000 sec	
Day/Night Performance:	Day/Night with mechanical IR cut filter	
Wide Dynamic Range (WDR):	True WDR (120 dB)	True WDR (120 dB) @15 fps; Digital WDR (100 dB) @ 30 fps
IR Sensitivity:	850 nm; up to 90 ft (30 m)	
Minimum Illumination:	Color: 0.05 lux; BW: 0 lux @f/1.8 1/15 sec	Color: 0.1 lux; BW: 0 lux @f/1.8 1/15 sec
Pan/Tilt:	Pan: 355°; tilt: 0° - 90°	
Lenses		
Lens:	4X 6.0 mm focal length, F2.0	4X 5.5 mm focal length, F1.8
Angle of View:	180° horizontal; 47° vertical	180° horizontal; 32° vertical
Network Video Transmission		
Network:	10/100/1000 Mbps Ethernet; RJ-45	1000 Mbps Ethernet; RJ-45
Image Compression:	H.265/H.264	
Video Streaming:	Triple streaming	
Max. Frame Rate:	Up to 30 fps at 8 MP	Up to 30 fps at 20 MP
Audio:	Two-way audio 1 audio input, 1 audio output	
Protocols:	IPv4/IPv6, TCP/IP, UDP, HTTP, RTP, RTSP, SMTP, HTTPS, UPnP, SNMP, FTP, QoS, ONVIF; ICMP; LDAP (client); SSH; SSL; DynDNS; Zeroconfig	
Users:	Up to 10 clients	
Web Browser:	Internet Explorer® /Firefox®/Google Chrome®	
Alarms:	1 alarm input/1 alarm output	
Security:	Password protection, IP address filtering, HTTPS, IEEE 802.1X network access control	
Mechanical and Electrical		
Construction:	Die-cast aluminum housing; polycarbonate dome	
Mounting:	Surface-mounted; mounting holes provided	
Controls and Connectors:	PoE/Network: RJ-45 (waterproof). Alarm In/Out: terminal blocks (2-pin/3-pin). Power: 2-pin terminal block. Audio In/Out: phone jacks. Reset to default button. RS-485: 2-pin terminal block. Pigtail connection; refer to Connector Drawings. Micro SD card slot.	
Dimensions:	H: 7.4 in. (188.4 mm); Diam: 7.7 in. (196 mm).	
Weight:	5.5 lb (2.5 kg)	
Input Power:	PoE+ (IEEE 802.3at); 12 VDC; 24 VAC	
Current:	12 VDC: 1.7 A; 24 VAC: 0.8 A	12 VDC: 2.1 A; 24 VAC: 1.0 A
Power Consumption:	20 W	25 W
Environmental		
Operating Conditions:	Temp: -40 to 131° F (-40 to 55° C) Humidity: 10% - 90%, non-condensing.	
Approvals:	FCC Class A, CE; IP66; IK10; UL	
Warranty:	3 years	

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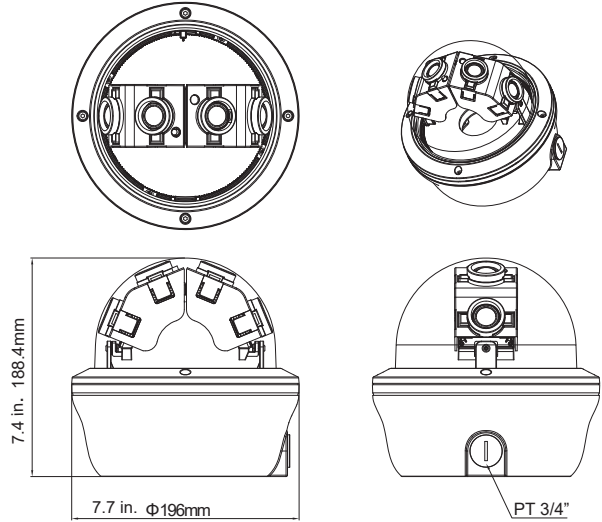
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V1008-WIR-180/V1020-WIR-180 SERIES

Connectors

Power IN(DC12V 2A/AC24V 1A)

RJ45

Alarm OUT

Alarm IN

Audio OUT (Green)

Audio IN (Red)

Reset to default button

Dimension Drawing

7.4 in. 188.4mm

7.7 in. Φ196mm

PT 3/4"
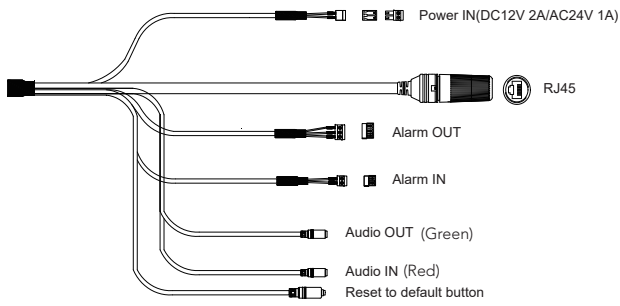
Mounting Accessories

	Description	Model Number
	Wall mount for the V1000 series of multi-sensor cameras	V1000-WM
	Pendant mount for the V1000 series of multi-sensor cameras	V1000-PM
	Adapter plate; used when mounting the wall mount to the V-20B-A-2 pole mount or V-24CMB-2 corner mount bracket	V1000-ADAPT
	Corner mounting bracket; adapter plate required	V-24CMB-2
	Pole mount adapter for; adapter plate required	V-20B-A-2
	60W PoE midspan injector required for use for PoE+	VPOE-INJ-60

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