V960-N Series Network Camera

- 1080p, 720p and SD resolution models
- True day/night performance
- H.264 high-profile and M-JPEG compression
- 0.08 lux low light capabilities @ 30 IRE
- Power-over-Ethernet (IEEE 802.3af), 24 VAC or 12 VDC
- Dual streaming video

Overview

Vicon's V960-N Series of HD IP Cameras is designed for demanding security installations. These network cameras deliver crisp clear images that satisfy any installation need. Three camera versions are available, offering a choice of 1080p, 720p and SD (standard resolution) .

The V960-N Series provides dual-streaming video and supports H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth. Users can receive multiple streams simultaneously in different resolutions, frame rates and image qualities for viewing on different platforms.

Installation of the V960-N is made easy and cost effective with Power over Ethernet (IEEE 802.3af), which eliminates the need for power cables. The camera also accepts 12 VDC and 24 VAC. Additionally, a composite output is provided for installation using a spot monitor (NTSC/PAL selectable).

In order to adapt to constantly changing outdoor lighting conditions, the V960-N is a true day/night camera that includes a removable IR-cut filter for superior image quality around the clock. The camera offers a CS-mount, and a C-mount adapter is provided for use with a wide choice of lenses. A DC autoiris output is also provided.

Resolution	Model Number
SD resolution (0.3 megapixel)	V960-N
720p resolution (1.3 megapixel)	V961-N
1080p resolution (2 megapixel)	V962-N

Model Descriptions

Model	V960-N	V961-N	V962-N
Image Sensor:	1/2.5-inch progressive scan CMOS		
Max Resolution:	SD	720p	1080p
Image Settings:	Adjustable bit rate. Flip and mirror. Configurable brightness, contrast, color, hue, sharpness. White balance. AGC. AES. Automatic or manual day/night mode. BLC (Backlight Compensation). Digital zoom. Motion detection. Slow Shutter.		
Shutter Speed:	1/4, 1/10, 1/12.5, 1/15, 1/20, 1/25, 1/30, 1/50, 1/60, 1/100, 1/120, 1/240, 1/480, 1/960, 1/1024, 1/2000 sec		
Electronic Zoom:	2 ~ 10X (client software)		
Day/Night Performance:	IR cut filter, True Day/Night		
S/N Ratio:	Greater than 50 dB		
Minimum Illumination:	Color: 0.07 fc (0.7 lux); B/W: 0.007 fc (0.08 lux), slow shutter On; @f/1.2, 30 IRE		

Lenses

Lens Mount:	CS-mount; C adapter provided		
Iris:	Manual, DC or AES		

Network Video Transmission

Network:	10Base-T, 100Base-TX, RJ-45		
Image Compression:	H.264 (Main Profile); M-JPEG available for 2nd stream		
Resolution:	640x480, 320x240, 704x480/576, 352x240/288	1280x720, 1280x720 (Wide), 1280x1024, 1024x768, 704x480/576, 640x480, 352x240/288, 320x240	1920x1080, 1280x720, 1280x720 (Wide), 1280x1024, 1024x768, 704x480/576, 640x480, 352x240/288, 320x240
Protocol:	IPv4, IPv6, TCP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, DHCP, NTP, DNS, DDNS, UDP, ARP		
Frame Rate:	2.5 ~ 30 fps (2.1 ~ 25 fps, PAL)		
Users:	Live viewing for up to 10 clients		
Web Browser:	Internet Explorer® 7.0 and above, Firefox®		
Security:	IP address filtering, password protection		

Mechanical and Electrical

Construction:	Diecast aluminum		
Mounting:	Mounting hole provided, top and bottom		
Controls and Connectors:	LED: status. Reset Button: sets factory defaults. Power: 12 VDC/24 VAC: screw terminal; PoE/Network: RJ-45 CAT 5. Alarm/Audio: screw terminal (Alarm Input, maximum of 5 VDC; Alarm Output, direct maximum load of 50 VDC/35 VAC @ 110mA; external relay requires installation of diode. Audio Out requires external amplifier). Local Storage: Micro SD card slot. Composite output provided for installation (NTSC/PAL selectable).		
Dimensions:	Height: 2.4 in. (60.3 mm); Width: 2.5 in. (116.3 mm); Depth: 3.74 in. (95 mm), including BNC		
Weight:	0.5 lb (0.23 kg)		
Input Power:	12 VDC, 24 VAC, PoE (IEEE 802.3af Class 2)		
Current:	12 VDC: 336 mA; 24 VAC: 305 mA; PoE: Class 2	12 VDC: 420 mA; 24 VAC: 357 mA; PoE: Class 2	12 VDC: 452 mA; 24 VAC: 368 mA; PoE: Class 2
Power Consumption:	12 VDC: 4.0 W; 24 VAC: 4.2 W	12 VDC: 5.0 W; 24 VAC: 5.3 W	12 VDC: 5.4 W; 24 VAC: 5.4 W

Environmental

Operating Conditions:	Temp: 14 to 122° F (-10 to 50° C); Humidity: less than 90%, non-condensing		
Approvals:	FCC Class A, CE		
Warranty:	3 years		

❶ ALARM / AUDIO	❺ RESET
❷ VIDEO OUT	❻ POWER
❸ MICRO SD CARD	❼ LED
❹ NETWORK (RJ-45)	❽ DC IRIS