

## V960D Series Network Indoor Camera Dome



### Overview

Vicon's V960D Series of HD IP Camera Domes is designed for indoor security installations. It offers a number of fixed network camera versions that deliver crisp clear images to fit any installation need. Each version type (1080p, 720p and VGA resolution) is offered with a choice of 3.3-12 mm, 3.3-12 mm motorized or 9-22 mm motorized lens. The motorized lenses permit remote focus and zoom using the web browser interface.

The V960D 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.



- 1080p, 720p and VGA resolution models
- True day/night camera with a choice of built-in varifocal lenses, including remotely adjustable motorized lenses
- H.264 high-profile and M-JPEG compression
- 0.11 lux low light capabilities @ 30 IRE
- Power-over-Ethernet (IEEE 802.3af), 24 VAC or 12 VDC
- Dual streaming video
- Surface or in-ceiling mounting

Installation of the V960D 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.

In order to adapt to constantly changing outdoor lighting conditions, the V960D features an autoiris varifocal lens to protect from damage induced by direct sunlight. The true day/night camera also includes a removable IR-cut filter for superior image quality around the clock. The camera dome provides 3-axis adjustment for any angle of view.

Model	V960D-N312 Series	V961D-N312 Series	V962D-N312 Series
<b>Image Sensor:</b>	1/2.5-inch progressive scan CMOS		
<b>Max Resolution:</b>	VGA	720p	1080p
<b>Image Settings:</b>	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.		
<b>Shutter Speed:</b>	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		
<b>Electronic Zoom:</b>	3 ~ 30X (client software)		
<b>Day/Night Performance:</b>	IR cut filter, True Day/Night		
<b>S/N Ratio:</b>	Greater than 50 dB		
<b>Minimum Illumination:</b>	Color: 0.12 fc (1.25 lux); B/W: 0.014 fc (0.15 lux), slow shutter On; @f/1.6, 30 IRE	Color: 0.09 fc (0.96 lux); B/W: 0.01 fc (0.11 lux), slow shutter On; @f/1.4, 30 IRE	

### Lenses

<b>Focal Length :</b>	3.3-12 mm or 9-22 mm		
<b>Max. Aperture:</b>	f/1.6		
<b>Iris:</b>	DC iris		
<b>Remote Zoom/Focus</b>	Yes (M models)		
<b>Horizontal Field of View:</b>	3.3-12 mm: 23.1° - 86.1° 9-22 mm: 12.6° - 30.9°	3.3-12 mm: 21° - 112.6° 9-22 mm: 11.5° - 38.8°	3.3-12 mm: 21° - 76.6° 9-22 mm: 11.5° - 27.8°

### Network Video Transmission

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

### Mechanical and Electrical

<b>Construction:</b>	Plastic base; polycarbonate clear dome		
<b>Camera Angle of Adjustment:</b>	3-axis adjustment, pan, tilt and roll (azimuth). 360° pan; 90° tilt; 360° rotation		
<b>Mounting:</b>	Surface mount or in-ceiling mount		
<b>Dimensions:</b>	4.9 in. (125 mm) (Diam) x 4.4 in. (113 mm) (H), 3.9 in. (100 mm) (Dome Diam)		
<b>Weight:</b>	0.9 lb (400 g)		
<b>Input Power:</b>	12 VDC, 24 VAC, PoE (IEEE 802.3af Class 0)		
<b>Current:</b>	12 VDC: 360 mA; 24 VAC: 121mA; PoE: 90 mA	12 VDC: 360 mA; 24 VAC: 121mA; PoE: 90 mA	12 VDC: 386 mA; 24 VAC: 132 mA; PoE: 100 mA
<b>Power Consumption:</b>	4.4 W	4.4 W	4.8 W

### Environmental

<b>Operating Conditions:</b>	Temp: 14 to 122° F (-10 to 50° C); Humidity: less than 90%, non-condensing
<b>Approvals:</b>	FCC Class A, CE, IP66
<b>Warranty:</b>	3 years

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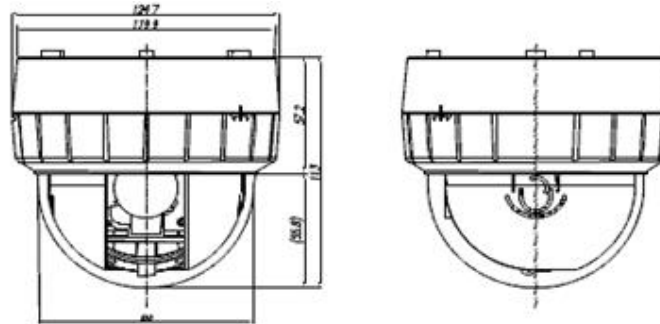
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**Dimensional Drawing**



<b>Resolution</b>	<b>Lens</b>	<b>Model Number</b>
VGA resolution	3.3 - 12 mm autoiris varifocal lens	V960D-N312
	3.3 - 12 mm remote zoom and focus	V960D-N312M
	9 - 22 mm remote zoom and focus	V960D-N922M
720p resolution (1.3 megapixel)	3.3 - 12 mm autoiris varifocal lens	V961D-N312
	3.3 - 12 mm remote zoom and focus	V961D-N312M
	9 - 22 mm remote zoom and focus	V961D-N922M
1080p resolution (2 megapixel)	3.3 - 12 mm autoiris varifocal lens	V962D-N312
	3.3 - 12 mm remote zoom and focus	V962D-N312M
	9 - 22 mm remote zoom and focus	V962D-N922M

**Model Descriptions**