



I-ONYX VND-970IP IP CAMERA DOME

IP Camera Dome Offers Affordable Convenience

- Powered by ViconNet software, version 5.2 and higher
- Power over Ethernet (PoE) or 12 VDC
- Maximum video transmission rate of 30 fps (25 fps PAL) at 640 x 480 pixels
- Real-time MPEG-4 and M-JPEG compression maximize data size and picture quality
- Simultaneous transmission of multiple channel video across the LAN and WAN (Internet) to connected Kollector recorders and ViconNet NVRs
- Can be remotely configured from Kollector network recorders and ViconNet NVR workstations

The I-Onyx® VND-970IP fills the need for a cost-effective IP camera dome. It is compatible for operation within a ViconNet® digital video management system (version 5.2 and higher software) and can be remotely managed and controlled from ViconNet NVRs, DVRs and Workstations. The camera supports an MPEG-4 open platform.

Equipped with a 100 Mbps LAN interface board, the camera allows direct plug-in to a network switch. Images received from the IP camera can be displayed, recorded or archived like any other ViconNet video component using the ViconNet management platform.

The VND-970IP supports either Multicast or Unicast and allows networks that support multicast to take advantage of this feature. Multistream support allows viewing and recording video at different frame rates (fps) at the same compression (MPEG-4 or M-JPEG) .

The VND-970IP camera combines excellent picture quality with advanced features. The micron 1/4" VGA CMOS imager offers progressive scan that provides up to VGA resolution (640 x 480 pixel array), providing a sharp color image with accurate color rendition. The camera provides a sensitivity of 0.14 fc (1.5 lux).

The VND-970IP camera is provided with an integral 3.3-12 mm/f1.4 varifocal lens. The camera features configurable brightness, contrast, saturation, sharpness and white balance and provides AGC, AWB and electronic iris. Video image can also be flipped or mirrored and privacy masks are supported.

The camera may be powered by either PoE or a 12 VDC power input. The camera is housed in a camera dome for indoor use. The camera dome provides 3-axis adjustment for pan, tilt and roll.

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Technical Specifications

ELECTRICAL

Input Voltage: 12 VDC or PoE (IEEE 802.3af).
 Current: 12 VDC: 300 mA.
 PoE: 360 mA.
 Power Consumption: 12 VDC 3.6 W.
 Radio-Frequency Emission Standard: FCC Class A; CE.

VICONNET (IP)

Communication Hardware: ViconNet Digital Video Management System (version 5 and higher).
 LAN Interface: 10/100 Mbps, TCP/IP Unicast/Multicast.
 Number of Channels: 1, over LAN connection.
 Picture Resolution and Frame Rate: CIF: 320 x 240.
 VGA: 640 x 480.
 1 to 30 fps (25 in PAL) in all resolutions.

OPERATIONAL

Tilt and Horizontal Adjustment: 3-axis adjustment, pan, tilt and roll.

VIDEO CHARACTERISTICS

Image Device: Color: 1/4-inch VGA progressive scan CMOS.
 Resolution: Scalable CIF (320x240) to VGA (640x480).
 Sensitivity: 0.14 fc (1.5 lux) at f/1.4.
 Signal to Noise Ratio: Better than 48 dB.
 White Balance: Automatic, ON/OFF.
 Gain Control: Automatic (AGC), ON/OFF.
 Electronic Iris: Automatic 1/5 (1/50)-1/15,000.

Compression: MPEG-4 or M-JPEG.
 Image Settings: Menus for video settings: Adjustable image size, quality and bit rate, brightness, contrast, saturation, sharpness and white balance.

Lens: 3.3-12 mm varifocal.
 Horizontal angle of view: 17.9° - 63.6°.
 Focus and zoom adjustment.

SOFTWARE

Network Setup: Standard network protocol type using IP addressing scheme and separate PC application software.
 Site Authorization: Camera dome can be setup using remote recorder or workstation.
 Macro Create & Edit: System macros can be configured to use the dome's video.

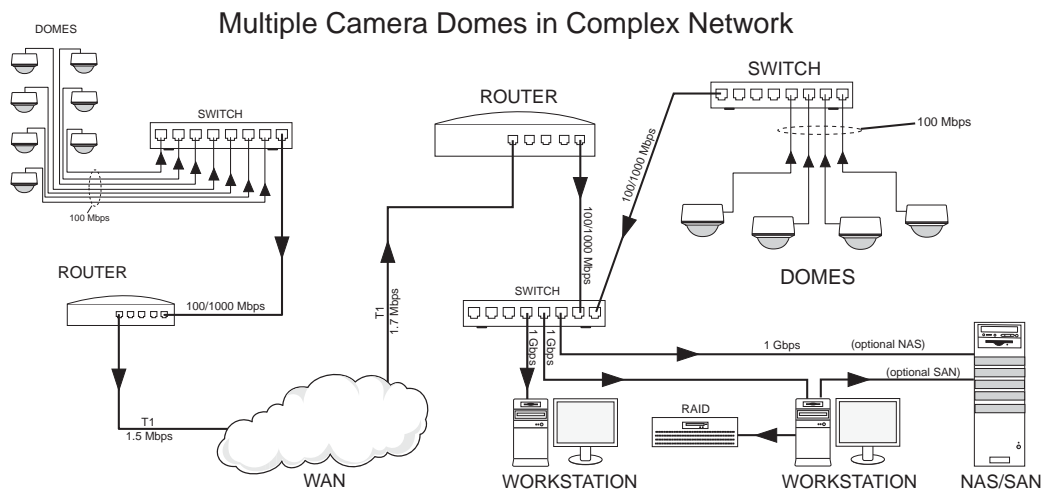
MECHANICAL

Application: Indoor.
 Dimensions: Diameter: 6.1 in. (155 mm).
 Height: 5.1 in. (130 mm).

ENVIRONMENTAL

Operating Temperature: -22 to 140°F (-30 to 60°C).

Model Number	Prod Code	Camera Resolution	Camera/Lens	Housing Types
VND-970IP	9658-00	Scalable CIF (320x240) to VGA (640x480)	Color/3.3-12 mm varifocal	Indoor, Surface Mount, In-ceiling mount option



- Number of cameras - Multiple on multiple sites
- Network bandwidth - Each switch to its limit (as shown above), constrained only by the WAN (T1 @ 1.7 Mbps)
- Storage method - Local workstation hard drive, SCSI attached RAID or NAS/SAN storage
- In the basic configuration, workstation recording capability is approximately 25 cameras