

MPD-980DN-O Megapixel Network Outdoor Camera Dome



Overview

Vicon's MPD-980DN-O I-Onyx Megapixel Camera Dome is a professional-series fixed network camera dome featuring superb image quality and exceptional bandwidth efficiency. Day and night operation is achieved by a built-in removable IR-cut filter, so the camera is able to maintain clear images 24 hours a day.

The MPD-980DN-O supports H.264 compression technology, drastically reducing file sizes and conserving valuable network bandwidth. With MPEG-4 and M-JPEG compatibility, video streams can also be transmitted in either of these formats for versatile applications. The streams can also be individually configured to meet different needs or bandwidth constraints, thereby further reducing bandwidth and storage requirements. Users can receive multiple streams simultaneously in different resolutions, frame rates and image qualities for viewing on different platforms.

Installation of the MPD-980DN-O is made easy and cost effective with Power over Ethernet (IEEE 802.3af), which eliminates the need for power cables.

- 2 megapixel CMOS sensor (1600 x 1200)
- Automatic day/night function with 3-9 mm varifocal autoiris lens and IR illuminators
- H.264 high-profile, MPEG-4 and M-JPEG compression
- 0.03 lux low light capabilities @ 20 IRE
- Power-over-Ethernet (IEEE 802.3af)
- Supports ONVIF global standard
- IP66 rated
- Heater and fan provide all-weather protection

The seamless integration with the ViconNet® Video Management System make this camera a strong choice for reliable and high performance surveillance applications. The camera includes support for the industry-standard ONVIF interface for interoperability between network video products.

In order to adapt to constantly changing outdoor lighting conditions, the MPD-980DN-O features an autoiris varifocal lens to protect from damage induced by direct sunlight. The camera also includes a removable IR-cut filter and IR illuminators for superior image quality around the clock. For protection against the elements, the camera dome is IP66-rated with a vandalproof casing to withstand rain, dust, and vandalism. The PoE-powered heater and fan further enhance the dome's performance and reliability in extremely cold and warm weather. The camera dome provides 3-axis adjustment for any angle of view.

Network Video Transmission

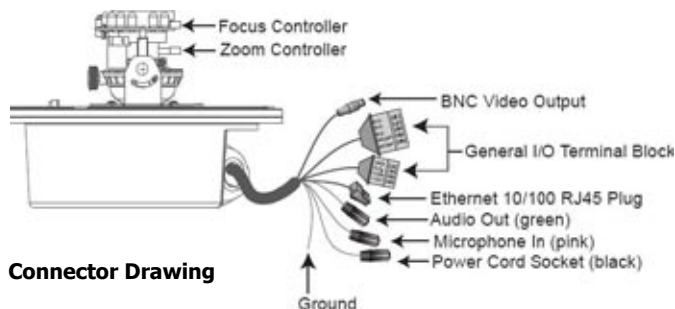
- Compression:** H.264; MPEG-4 and M-JPEG.
- Resolution:** 1600 x 1200. Supports video cropping for bandwidth efficiency.
- Image Settings:** Adjustable image size, quality and bit rate. Time stamp and text caption overlay. Flip and mirror. Configurable brightness, contrast, saturation, sharpness, white balance, AGC, AWB, AES. Automatic, manual or scheduled day/night mode. BLC (Backlight Compensation). Supports privacy masks.
- Frame Rates:** Up to 30 fps at 800 x 600; up to 15 fps at 1600 x 1200.
- Users:** Live viewing for up to 10 clients.
- Security:** IP address filtering, HTTPS encrypted data transmission, 802.1X port-based authentication for network protection.
- Supported Protocols:** ONVIF, IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1x.

Camera and Optics

- Image Sensor:** 1/3.2" CMOS sensor.
- Signal to Noise Ratio:** 45 dB.
- Minimum Illumination:** Color: 0.09 fc (0.9 lux); B/W: 0.003 fc (0.03 lux), @20 IRE.
- Shutter Time:** 1/5 sec to 1/40,000 sec.
- IR Illuminators:** 18; lights up to 65 ft (20 m).
- Lens:** 3-9 mm autoiris varifocal.
Angle of View: 31.7° - 93° horizontal;
23.8° - 68.4° vertical.

Controls and Connectors

- External Controls:** LED: reset status. Reset Button: sets factory defaults. Light Sensor: determines environment lighting. 60/50 Hz: NTSC/PAL DIP switch. Pan, Tilt, Rotation: screws. Focus, Zoom: control knobs.
- Connectors:** Power: 12 VDC: terminal block or jack; 24 VAC: terminal block. PoE/Ethernet: RJ-45 CAT 5. Local Storage: SD card slot. Video Output: BNC. Audio Out: jack. Mic In: jack. (Audio is not supported by ViconNet). Refer to Figure.



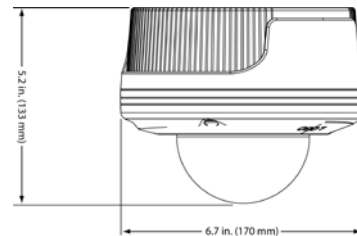
Connector Drawing

Mechanical

- Construction:** Metal base; polycarbonate clear dome.
- Camera Angle of Adjustment:** 350° rotation; 85° tilt. 3-axis adjustment, pan, tilt and roll (azimuth).
- Mounting:** In-ceiling or surface mount. See accessories below.
- Dimensions:** 6.7 in. (170 mm) (Diam) x 5.2 in. (133 mm) (H), surface mount. See Figure.
- Weight:** 4.9 lb (2.2 kg).
- Input Power:** 12 VDC, 24 VAC, PoE (IEEE 802.3af Class 0).
- Current:** 12 VDC: 0.8 A; 24 VAC: 0.5 A.
- Power Consumption:** 24 VAC/12 VDC: Max 9.9 W with heater, fan and IR illuminators.

Environmental

- Operating Conditions:** -22 to 122° F (-30 to 50° C).
- Humidity:** 20 - 95%, relative.
- Approvals:** FCC Class B; CE, LVD, VCCI, C-Tick.
- Warranty:** 3 years.



Dimension Drawing

Mounting Accessories

	Description	Model Number
	Dome cover: Housing with 1.5-in. NPT	MPD-980-DOME
	Indoor/outdoor wall mount	SVFT-UWM
	Indoor/outdoor short wall mount	SVFT-WM
	Outdoor parapet mount	SVFT-UPM-1
	Outdoor roof mount	SVFT-URM-1

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