MPD-980DN Megapixel Network Indoor Camera Dome

- 2 megapixel CMOS sensor (1600 x 1200)
- Automatic day/night function with 3-9 mm varifocal autoiris lens
- 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

Overview

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

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.

The MPD-980DN features an autoiris varifocal lens to adapt to changes of lighting in the environment. 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, staturation, 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.
Lens:	3-9 mm autoiris varifocal. Angle of View: 31.7° - 93° horizontal; 23.8° - 68.4° vertical.

Controls and Connectors

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External Controls:	LEDs: power and 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. Ext/Int Mic: DIP switch (audio is not supported by ViconNet).
Connectors:	Power: 12 VDC: terminal block. PoE/Ethernet: RJ-45 CAT 5. Local Storage: SD card slot. Audio/Video Output: jack. Audio In: jack. (Audio is not supported by ViconNet). Refer to Figure.

Mechanical

Construction:	Plastic base; polycarbonate clear dome.
Camera Angle of Adjustment:	350° rotation; 85° tilt. 3-axis adjustment, pan, tilt and roll (azimuth).
Mounting:	Surface mount; option for in-ceiling (recessed) mounting.
Dimensions:	7.1 in. (181 mm) (Diam) x 4.6 in. (116.2 mm) (H). Refer to Figure.
Weight:	1.5 lb (0.7 kg).
Input Power:	12 VDC, PoE (IEEE 802.3af Class 0).
Current:	12 VDC: 0.5 A.
Power Consumption:	12 VDC: Max 6.5 W.
Heat Equivalent:	0.37 btu/min (0.09 kg-cal/min).

Environmental

Operating Conditions:	32 to 122° F (0 to 50° C).
Humidity:	90%, relative.
Approvals:	FCC Class B; CE, LVD, VCCI, C-Tick.
Warranty:	3 years.
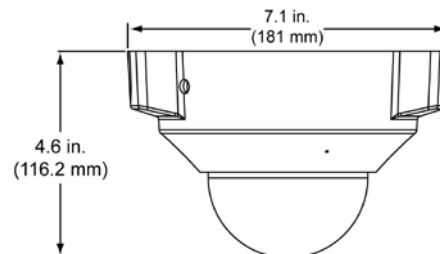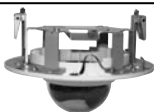
Dimension Drawing
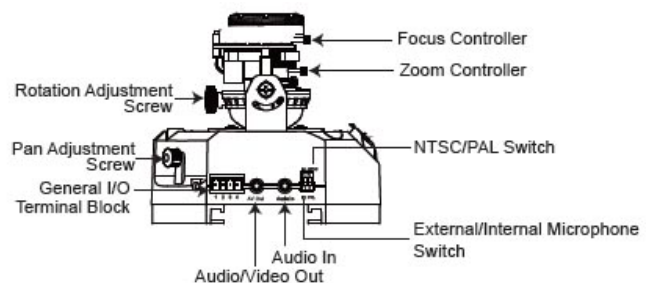
Connector Drawing

Mounting Accessories

	Description	Model Number
	Mount for in-ceiling (recessed) installation	VND-970IP-CM

Data Sheet Number: V207-10
Dated: 06/2010

Vicon Data Sheet Number: 8009-7207-10-03
Specifications subject to change without notice.