



Product at a Glance

- ▶ 2 MP and 4 MP models
- ▶ H.265/H.264 compression
- ▶ True WDR (120 dB)
- ▶ IR LEDs (82 ft/25 m range)
- ▶ Motorized varifocal lens models
- ▶ 0.1 lux low light capabilities (color)
- ▶ Quad streaming
- ▶ Smart encoding
- ▶ Video Content Analysis (VCA)
- ▶ Museum Search
- ▶ Power-over-Ethernet (PoE), 12 VDC
- ▶ Two-way audio
- ▶ Analog composite video out; requires optional cable
- ▶ SD card slot for on-camera storage
- ▶ Surface mounting on wall or ceiling



Overview

Vicon's V800D HD IP Camera Domes are designed for indoor security installations. There are 1080P (2 MP) and 4 MP models with a motorized varifocal autoiris lens. The camera includes IR illuminators.

The V800D Series provides quad streaming and supports H.264/H.265 compression technology, significantly reducing file sizes and conserving valuable network bandwidth. The camera provides Smart Encoding, which monitors the amount of motion in a scene, resulting in overall savings in storage requirements and bandwidth.

The camera dome is designed for easy installation. Power over Ethernet (IEEE 802.3af) eliminates the need for power cables, providing a cost-effective method of installation. The camera also accepts 12 VDC. The V800D can be mounted on a wall or

ceiling and provides 3-axis adjustment for any angle of view. Additionally, a composite output is provided for installation using a spot monitor (NTSC/PAL selectable); optional cable required (V800-BNC).

In order to adapt to constantly changing outdoor lighting conditions, the V800D series features an autoiris lens to adjust the lens opening to the changing light levels. The true day/night progressive scan camera also includes a removable IR cut filter for superior image quality in all lighting conditions. Wide Dynamic Range (120 dB) further improves picture quality by balancing the high contrast between bright and dark areas in scenes, providing one clear image.

SPECIFICATIONS

Model	V802D-W312MIR	V804D-W312MIR
Image Sensor:	1/2.8-inch progressive scan CMOS	1/3-inch progressive scan
Max Resolution:	1920 x 1080 (1080p; 2 MP)	2592 x 1520 (4 MP)
Image Settings:	Digital image effects: flip and mirror. Configurable brightness, contrast, saturation, chroma, sharpness. White balance. Electronic shutter speed. Day/night mode. Dynamic Noise Reduction (3D). Motion detection (16 programmable zones). Privacy masking (4 masks). Digital zoom. Event notification.	
Video Content Analysis:	Defog; Tampering; Intelligent Video Motion Detection; Intrusion Detection; Museum Search.	
Electronic Shutter Speed:	Auto (1 ~ 1/10,000 sec), manual	
Day/Night Performance:	True day/night (IR cut filter)	
Wide Dynamic Range	True WDR; 120 dB	
Minimum Illumination:	Color: 0.08 lux/0.03 lux; BW: 0.0 lux (IR On) @Shutter 1/10, max Gain	Color: 0.23 lux/0.14 lux; BW: 0.0 lux (IR On) @Shutter 1/10, max Gain
IR Distance:	24 IR LEDs; 82 ft (25 m)	

Lenses

Focal Length:	2.8 -12 mm	2.8 -12 mm
Max. Aperture:	f/1.6	f/1.6
Iris:	Autoiris	Autoiris
Zoom/Focus Adjust:	Motorized zoom and focus	Motorized zoom and focus
Field of View:	30° - 100°	30° - 100°

Network Video Transmission

Network:	10Base-T, 100Base-TX, RJ-45	
Image Compression:	H.264; H.265; M-JPEG	
Resolution:	1920x1080 (1080P), 1440x1080, 1280x1024, 1280x720/960 (720P), 1024x768, 704x480/576 (D1), 640x480 (VGA), 400x240, 320x240 (QVGA)	2592x1520, 2304x1296, 1920x1080 (1080P), 1440x1080, 1280x1024, 1280x720/960 (720P), 1024x768, 704x480/576 (D1), 640x480 (VGA), 400x240, 320x240 (QVGA)
Protocol:	IPv4/IPv6, TCP/IP, HTTP, HTTPS, RTSP, RTCP, RTP, DHCP, FTP, UDP, uPnP, ARP, QoS, Zeroconf, Bonjour	
Frame Rate:	30/25 fps max.	
Streams:	Quad streams: H.264/H.265 - 3; M-JPEG - 1	
Users:	Up to 10 users	
Web Browser:	Internet Explorer®, Chrome®, Safari®, Firefox®	
Security:	Multi-user authority, IP address filtering, HTTPS encrypted video & data transmission, TLS, SSL, password protection	
Alarm:	1 input/1 output	
Audio Streaming:	1 input/1 output; 2-way G.711 codec	

Mechanical and Electrical

Construction:	PA 10 Plastic housing; polycarbonate clear dome; tamperproof screws
Camera Angle of Adjustment:	3-axis adjustment, pan 360°, tilt 90° and roll 360° (azimuth). Mechanical camera tilt adjustment of 80°.
Mounting:	Surface mount, wall or ceiling
Dimensions:	5.1 in. (130 mm) (Diam) 4.1 in. (104 mm) (H)
Weight:	0.90 lb (0.4 kg)

Data Sheet Number: V295-00-03
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SPECIFICATIONS

Electrical

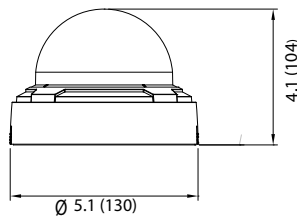
Input Power:	PoE IEEE 802.3af, 12 VDC,
Current (IR on):	V802D-IR: 170mA @PoE, 620mA @12 VDC; V802D-312MIR: 190mA @PoE, 680mA @12 VDC; V804D-IR: 180mA @PoE, 620mA @12 VDC; V804D-312IR: 190mA @PoE, 710mA @12 VDC
Power Consumption (IR on):	V802D-IR: 8.2W @PoE, 6.8W @12 VDC; V802D-312MIR: 8.2W @PoE, 7.4W @12 VDC; V804D-IR: 7.6W@PoE, 6.8W @12 VDC; V804D-312IR: 8.5W @ PoE, 7.6W @12 VDC
Storage:	Slot for SDHC/SDXC card on camera (128G max; card not supplied)

Controls and Connectors

Connectors:	Power: standard jack for adapter; PoE/Network: RJ-45 CAT 5. Alarm In/Out: terminal block. Audio In and Out: terminal block. Analog Video Output: BNC (requires optional cable). Local Storage: SD card slot.
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Environmental

Operating Conditions:	Indoor Rated Temp: 14 to 104° F (-10 to 40° C) Humidity: up to 90%, non-condensing
Approvals:	FCC Class A, CE
Warranty:	3 years



Dimension Drawing [in. (mm)]

Ordering Information

Resolution	Lens	Model Number
1080p resolution (2 MP)	2.8 - 12 mm motorized zoom and focus lens	V802D-W312MIR
4 MP	2.8 - 12 mm motorized zoom and focus lens	V804D-W312MIR
Optional		
Cable to connect to spot monitor		V800-BNC
Adapter plate to mount to 4x4 electrical box		V800-PLATE