



Product at a Glance

- ▶ Starlight 2 MP and 5 MP models
- ▶ True WDR (120 dB)
- ▶ H.265/H.264 compression; M-JPEG compression
- ▶ 49 ft/15 m IR range; Smart IR/Adaptive IR
- ▶ Fixed 2.8 mm lens
- ▶ Triple streaming
- ▶ Smart Encoding
- ▶ VCA; Museum Search
- ▶ Power-over-Ethernet (PoE)
- ▶ SD card slot for on-camera storage
- ▶ IP67 rated for outdoor environments
- ▶ IK10 rated for impact protection
- ▶ NDAA/GSA/TAA compliant; ONVIF S/T/G/Q
- ▶ Surface mounting on wall or ceiling

Overview

Vicon's Roughneck® Pro V2000D Series of HD IP Micro-Dome Cameras is designed for performance in the most demanding security installations. There are 2 MP and 5 MP models with a fixed 2.8 mm lens; all models offer Starlight low-light imaging.

The V2000D Micro-Dome provides triple streaming video and supports H.264/H.265 compression technology, significantly reducing file sizes and conserving valuable network bandwidth. Smart encoding effectively enhances video encoding efficiency and further reduces transmission rate and improves storage capacity.

The micro-dome camera 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 dome camera can be mounted on a wall or ceiling. Refer to Ordering Information for details on accessories and other mounting options.

The true day/night progressive scan camera includes a removable IR cut filter for superior image quality in all lighting conditions. True Wide Dynamic Range (120 dB) further improves video exposure quality in scenes with high contrast between bright and dark areas. Smart IR adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object and built-in Adaptive IR adjusts the IR output dynamically to prevent oversaturation in the scene as the light changes.

For protection against the elements, the camera dome is IP67 rated with a IK10 vandal-proof casing to withstand rain, dust, and vandalism. The camera meets the latest regulations required to be NDAA, GSA schedule and TAA approved and support ONVIF profiles S/T/G/Q.

The camera can be used with Vicon Valerus™ as well as many other popular VMS systems; each VMS may support different camera functions.

Specifications

Model	V2002D-W28IR	V2005D-W28IR
Image Sensor:	1/2.8-in.	
Max Resolution:	1920 x 1080 (1080p)	2592x1944 (5 MP)
Image Settings:	Digital image effects: defog, flip and mirror and corridor. Configurable brightness, contrast, saturation, hue, sharpness. White balance. Backlight Compensation (BLC). HLC. Gain control. Gamma correction. Electronic shutter speed. Day/night mode. Dynamic Noise Reduction (3 DNR). Motion detection (4 programmable zones). Privacy masking (8 masks). Dynamic ROI. Event notification.	
Intelligent Video Analytics:	Motion, Tampering/Defocus, Intrusion, Loitering, Line Cross/Counting, Object Left/Removed, Area Counting, Wrong Direction. Museum Search.	
Electronic Shutter Speed:	Auto (1/2 ~ 1/10,000 sec), manual	
Day/Night Performance:	True day/night (IR cut filter)	
Wide Dynamic Range	True WDR; 120 dB	
Minimum Illumination (@ 30 IRE):	Color: 0.007 lux; BW: 0.003 lux, IR Off; 0 lux, IR On	Color: 0.03 lux; BW: 0.01 lux, IR Off; 0 lux, IR On
IR Distance:	Smart IR/Adaptive IR. 49 ft (15 m); 8 IR LEDs	
Lenses		
Focal Length:	2.8 mm	
Max. Aperture:	f/1.8	f/2.0
Zoom/Focus/Iris Adjust:	Fixed	
Field of View: Horizontal/Vertical/Depth	109°/59°/128°	104°/78°/134°
Network Video Transmission		
Network:	10/100Base-T/TX: RJ-45	
Image Compression:	H.264; H.265; M-JPEG	
Resolution:	2 MP: 1920x1080 (1080P), 1280x960/720, 800x600, 640x480, 640x360, 320x240 5 MP: 2592x1944/1520, 2560x1440, 2048x1536, 2304x1296, 1920x1080 (1080P), 1600x1200, 1440x1080, 1600x900, 1280x960/720, 800x600, 640x480/360, 320x240/180	
Protocol:	ARP, DHCP, DNS, FTP, HTTP, HTTPS, HLS, ICMP, IGMP, IPv4/6, LDAP, NTP, RTSP/RTCP/RTP, RTMP, QoS, SMTP, SNMP v1/2c/3, TCP, TLS/TTLS, UDP, UPnP, 802.1X, UPnP, Bonjour, DDNS, PPPoE; ONVIF S/G/Q/T	
Frame Rate:	30/25 fps max	
Streams:	Triple streaming. 2 MP: Single: 2 MP@30fps; Dual: 2 MP@30fps + 1280x720@30fps; Triple: 2 MP@30fps + 1280x720@30fps + 640 x 360@30 fps 5 MP: Single: 5 MP@30fps; Dual: 5 MP@30fps + 1600x1200@30fps; Triple: 5 MP@30fps + 1600x1200@30fps + 640 x 480@30 fps	
Audio:	1 audio input/1 audio output (line in/out); G.711 (a-law, μ-law); audio level alarm	
Users:	Live: 10 users	
Web Browser:	Internet Explorer 11®; Chrome®, Safari®, Firefox®, Microsoft® Edge	
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, IEEE 802.1X, Digest Authentication, Advanced Security	

Specifications

Mechanical	
Construction:	Dome housing: white aluminum. Dome bubble: polycarbonate.
Camera Angle of Adjustment:	3-axis adjustment. Pan: 0° - 180°; Tilt: 0° - 80°; Rotate: ±355°
Mounting:	Surface mount, wall or ceiling
Dimensions:	4.3 in. (110 mm) (Diam) x 2.2 in. (57 mm) (H)
Weight:	1.65 lb (0.75 kg)

Electrical	
Input Power:	PoE IEEE 802.3af class 3
Current:	0.28 A
Power Consumption:	IR On: 13.5 W; IR Off: 8.5 W

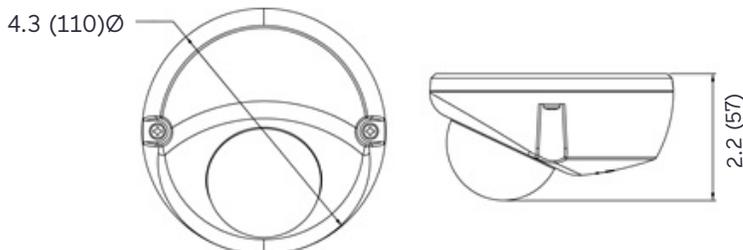
Controls and Connectors	
Connectors:	Pigtail cable provided; optional backbox required for cabling. PoE/Network: RJ-45 CAT 5; Audio Input/Output: terminal block. Reset button; Default button; Micro SD card slot for SDHC/SDXC card (128 G max; customer-supplied)

Environmental	
Operating Conditions:	Temperature: 14° to 131° F (-10° to 55° C) Humidity: up to 90%, non-condensing
Approvals:	UL, FCC Class A, CE, IP67, IK10; ONVIF Profile S/T/G/Q, RoHS
Country of Origin:	Taiwan
Warranty:	5 years

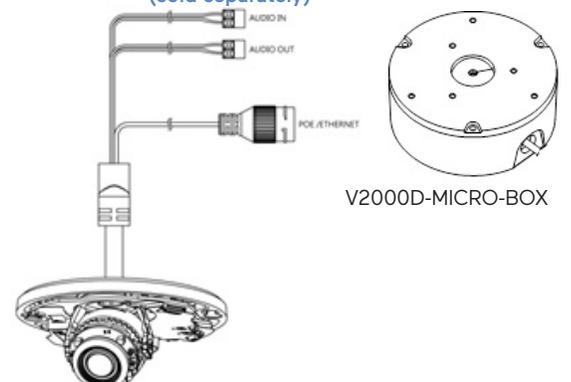
Ordering Information		
Resolution	Lens	Model Number
2 MP	2.8 fixed	V2002D-W28IR
5 MP	2.8 fixed	V2005D-W28IR

Accessories		
Adapter Plate	Allows the V2000D micro dome to be mounted to a 4x4 electrical box	V2000D-MICRO-PLATE 
Backbox	For ease of cabling	V2000D-MICRO-BOX 
Pendant Mount	Provides pendant mounting configuration for use with SVFT-WM-1/UWM-1/UCM-1/UPM-2, V-24CMB-4, V-20B-A-4	V2000D-PM 
Wedge Mount/Adapter Plate	Allows the V2000D micro dome to be surface mounted on a tilt to maintain a full view/Allows V2XXX-WDG to be mounted on a 4x4 electrical box	V2XXX-WDG  V2XXX-WDG-PLATE 

Dimension Drawing [in. (mm)]



Pigtail Cable: Use optional V2000D-MICRO-BOX (sold separately)



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