

V2002D, V2005D and V2008D

Roughneck AI Dome Cameras



Overview

Vicon's Roughneck® AI Domes deliver high image quality, combined with built-in IR illumination and Starlight low-light technology, for crystal-clear video in near-dark conditions. The housing is weather-resistant and vandal-proof, rated for severe outdoor conditions and extreme temperatures.

AI ANALYTICS INSIDE

Perform more meaningful post-event forensic searches with object classification analytics

The camera's object classification analytics allow it to distinguish people and vehicles from other objects in a scene. Object-only recording, and the ability to filter out "environmental noise" that can trigger a motion detection alarm (e.g., shadows, swaying trees and bushes, etc.), significantly increases operational efficiencies. The result?

- Filter out non-relevant video for faster incident resolution
- Reduce storage requirements (by limiting recording to just object-based motion)
- Diminish nuisance alarms
- Respond to genuine threats quicker, and with fewer resources

*Object classification analytics are available in the 5 MP (V2005D) and 8 MP (V2008D) models only.

Product at a Glance

- ▶ Choose between 2 MP*, 5 MP and 8 MP resolution
- ▶ Starlight low-light technology provides clear color images in extreme low-light conditions
- ▶ True WDR (120 dB); built-in varifocal autoiris lens
- ▶ Integrated IR provides uniform illumination in total darkness for high-quality video from 131 ft (40 m) away
- ▶ P-Iris (8 MP model) delivers enhanced video clarity and depth-of-field so objects close to--and far away from--the camera remain in focus, simultaneously

Specifications





Model	V2002D	V2005D	V2008D
Camera			
Image Sensor:	1/2.8-in.		1/1.8-in.
Max Resolution:	1920 x 1080 (1080p)	2592x1944 (5 MP)	3840x2160 (8 MP)
Image Settings:	Digital image effects: defog, flip, mirror, corridor. Configurable brightness, contrast, saturation, hue, sharpness. White balance. BLC. HLC. Gain control. Gamma correction. Electronic shutter speed. Day/night mode. 3 DNR. Motion detection (4 programmable zones). Privacy masking (8 masks). Dynamic ROI. Digital zoom. Event notification.		
Intelligent Video Analytics:	Motion, Tampering/Defocus, Intrusion, Loitering, Line Cross, Tailgating*, Object Left/Removed, Crowding*. Museum Search.		
AI-Based Object Classification Analytics:	Vehicles, people, animals		
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: 0.002 lux, IR Off; 0 lux, IR On	Color: 3.1-10 mm: 0.03 lux or 8-18 mm: 0.02 lux; BW: 0.01 lux, IR Off; 0 lux, IR On	Color: 3.6-10 mm: 0.02 lux or 8-18 mm: 0.01 lux; BW: 0.01 lux, IR Off; 0 lux, IR On
IR Distance:	Smart IR/Adaptive IR. 131 ft (40 m); 22 IR LEDs		
Lenses			
Focal Length:	3.1-10 mm; 3.2X optical zoom	3.1-10 mm; 3.2X optical zoom or 8-18 mm; 2.25X optical zoom	3.6-10 mm; 2.8X optical zoom or 8-18 mm; 2.25X optical zoom
Max. Aperture:	f/1.4 - f/2.8	3.1-10 mm: f/1.4 - f/2.8 or 8-18 mm: f/1.6- f/2.8	3.6-10 mm: f/1.5 - f/2.8 or 8-18 mm: f/1.6- f/2.8
Iris:	DC autoiris	DC autoiris or P-Iris (Manual/Auto)	P-Iris (Manual/Auto)
Zoom/Focus Adjust:	Motorized zoom and focus		
Field-of-View:	H: 34° (tele) - 110° (wide) V: 20° (tele) - 58° (wide)	3.1-10 mm: H: 32° (tele) - 96° (wide) V: 24° (tele) - 69° (wide) 8-18 mm: H: 17° (tele) - 40° (wide) V: 13° (tele) - 29° (wide)	3.6-10 mm: H: 46° (tele) - 98° (wide) V: 26° (tele) - 54° (wide) 8-18 mm: H: 25° (tele) - 60° (wide) V: 12° (tele) - 33° (wide)
Network Video Transmission			
Network:	10/100Base-T/TX: RJ-45		
Image Compression:	H.264; H.265; M-JPEG		
Resolution:	1920x1080 (1080P), 1280x960/720, 800x600, 640x480, 640x360, 320x240	2592x1944/1520, 2560x1440, 2048x1536, 2304x1296, 1920x1080 (1080P), 1600x1200, 1440x1080, 1600x900, 1280x960/720, 800x600, 640x480/360, 320x240/180	3840x2160, 3264x1840, 2592x1944, 2688x1520, 2048x1536, 1920x1080 (1080P), 1280x960/720, 800x600, 640x480, 640x360, 320x240
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/TLS, UDP, UPnP, 802.1X, UPnP, Bonjour, DDNS, PPPoE; ONVIF S/G/T/M		
Frame Rate:	30/25 fps max		
Streams (Triple Streaming) :	Single: 2 MP@30fps; Dual: 2 MP@30fps + 1280x720@30fps Triple: 2 MP@30fps + 1280x720@30fps + 640 x 360@30 fps	Single: 5 MP@30fps; Dual: 5 MP@30fps + 1600x1200@30fps; Triple: 5 MP@30fps + 1600x1200@30fps + 640 x 480@30 fps	Single: 8 MP@30fps; Dual: 8 MP@30fps + 640x480@30fps; Triple: 8 MP@30fps + 640x480@30fps + 320 x 240@30 fps
Alarms:	1 alarm input/1 alarm output		
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:	Chrome®, Safari®, Firefox®, Microsoft® Edge		
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, IEEE 802.1X, Digest Authentication, Advanced Security		

*2 MP model (V2002D) does not include tailgating or crowding analytics.

Specifications

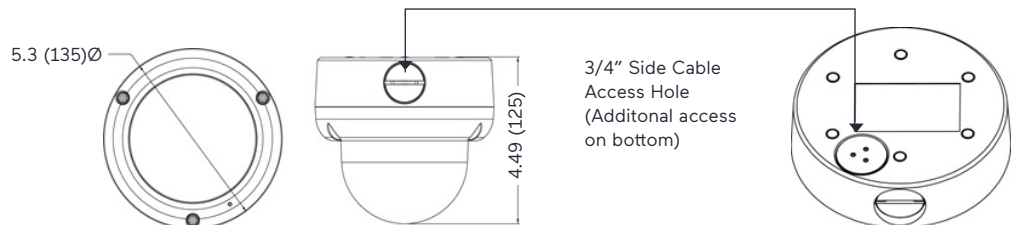
Mechanical	
Construction:	Dome body: white aluminum. Dome bubble: polycarbonate.
Camera Angle of Adjustment:	3-axis adjustment. Pan: 370°; Tilt: 15° - 90°; Rotate: ±355°
Mountings:	Surface mount, wall or ceiling
Dimensions:	5.3 in. (135 mm) (Diam) x 4.49 in. (125 mm) (H)
Weight:	2.6 lb (1.2 kg)
Electrical	
Input Power:	PoE IEEE 802.3af class 3; 12 VDC (±10%); 24 VAC (+20%/-10%)
Current:	V2002D: 12 VDC: 0.96 A; 24 VAC: 0.48 A; PoE: 0.24 A; V2005D: 12 VDC: 1.2 A; 24 VAC: 0.6 A; PoE: 0.3 A; V2008D: 12 VDC: 1.1 A; 24 VAC: 0.55 A; PoE: 0.27 A
Power Consumption:	IR/Heaters On: V2002D: 11.52 W; V2005D: 14.4 W; V2008D: 13.14 W IR Off/Heaters On: V2002D: 9.52 W; V2005D: 12.4 W; V2008D: 11.22 W
Controls and Connectors	
Connectors:	Two 3/4" conduit access holes provided, side and bottom for internal cable termination. Power: 12 VDC/24 VAC: terminal block; PoE/Network: RJ-45 CAT 5; Alarm: terminal block. Audio: terminal block. Reset button; Default button; Micro SD card slot for SDHC/SDXC card (128 G max; customer-supplied); Video Output; 2-pin terminal block for Monitor Out (5 MP/8 MP models only)
Environmental	
Dual Heater System:	For low temperature operation: heater turns on at -40° F (-40° C) and off at 59° F (15° C). For defog operation: heater turns on at -40° F (-40° C) and off at 140° F (60° C).
Operating Conditions:	Outdoor rated Temp: -40° to 140° F (-40° to 60° C) Humidity: up to 90%, non-condensing
Approvals:	UL, FCC Class A, CE, IP67, IK10; ONVIF Profile S/T/G/M, RoHS, BIS (excluding 8-18 mm models)
Country of Origin:	Taiwan
Warranty:	5 years

Ordering Information

Model	Description
V2002D-W313MIR	2 MP; 3.1-10 mm motorized zoom and focus; autoiris
V2005D-W313MIR/V2005D-W818MIR	5 MP; 3.1-10 mm or 8-18 mm motorized zoom and focus; autoiris; includes object classification analytics
V2008D-W310MIR/V2008D-W818MIR	8 MP; 3.6-10 mm or 8-18 mm motorized zoom and focus; autoiris; includes object classification analytics
Accessories	
V2XXXD-PM	 Pendant Cap: provides pendant mounting configuration for use with SVFT-WM-1/UWM-1/UCM-1/UPM-2, V-24CMB-4, V-20B-A-4
V2000D-PLATE	 Adapter Plate; allows the V2000D to be mounted on a 4x4 electrical box
V2000D-ICD	 In-Ceiling Mount; allows the V2000D to be installed in a drop ceiling
V2000D-ICH	 In-Ceiling Mount; allows the V2000D to be installed in a hard ceiling

Dimensional Drawing

[in. (mm)]



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