VICON

V2005D and V2008D

Roughneck AI Dome Cameras

NDAA GSA Onvif S/G/T/M TAA

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

Product at a Glance

- Choose between 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
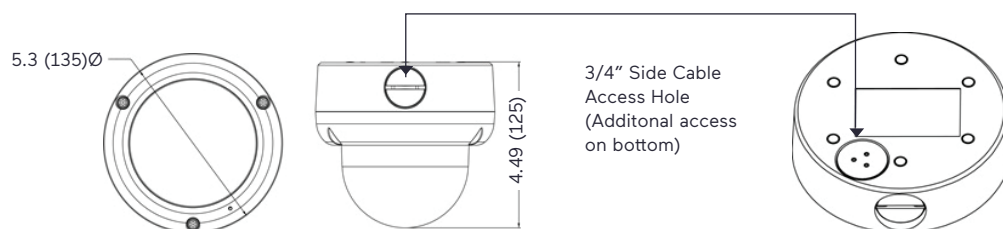
Specifications

Model	V2005D	V2008D
Camera		
Image Sensor:	1/2.8-in.	1/1.8-in.
Max Resolution:	2592×1944 (5 MP)	3840×2160 (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: 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 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:	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 or P-Iris (Manual/Auto)	P-Iris (Manual/Auto)
Zoom/Focus Adjust:	Motorized zoom and focus	
Field-of-View:	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:	2592×1944/1520, 2560×1440, 2048×1536, 2304×1296, 1920×1080 (1080P), 1600×1200, 1440×1080, 1600×900, 1280×960/720, 800×600, 640×480/360, 320×240/180	3840×2160, 3264×1840, 2592×1944, 2688×1520, 2048×1536, 1920×1080 (1080P), 1280×960/720, 800×600, 640×480, 640×360, 320×240
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/T/M	
Frame Rate:	30/25 fps max	
Streams (Triple Streaming) :	Single: 5 MP@30fps Dual: 5 MP@30fps + 1600×1200@30fps Triple: 5 MP@30fps + 1600×1200@30fps + 640 x 480@30 fps	Single: 8 MP@30fps Dual: 8 MP@30fps + 640×480@30fps Triple: 8 MP@30fps + 640×480@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	

Specifications

Model	V2005D	V2008D
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), wall arm, pendant, J-Box, pole, corner, 4×4 electrical plate, backbox	
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:	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: 16.5 W IR Off/Heaters On: 14.1 W IR Off/Heaters Off: 6 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	
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	

Dimensional Drawing

[in. (mm)]

5.3 (135)Ø

4.49 (125)

3/4" Side Cable Access Hole (Additonal access on bottom)

Ordering Information

Model	Description
V2005D-W313MIR	**5 MP Dome** 3.1-10 mm motorized zoom and focus; autoiris; includes object classification analytics.
V2005D-W818MIR	**5 MP Dome** 8-18 mm motorized zoom and focus; autoiris; includes object classification analytics.
V2008D-W310MIR	**8 MP Dome** 3.6-10 mm mm motorized zoom and focus; autoiris; includes object classification analytics
V2008D-W818MIR	**8 MP Dome** 8-18 mm motorized zoom and focus; autoiris; includes object classification analytics
Mounts and Accessories	
V2XXXD-PM	**Pendant Cap** Provides pendant mounting configuration for use with SVFT-WM-1 and V1001-WM wall mounts.
V2000D-PLATE	**Adapter Plate** Allows the V2000D to be mounted on a 4×4 electrial box.
V1001-WM	**Wall Mount (medium)** For mounting the dome directly to a wall, J-Box, corner mount, or pole mount.
SVFT-WM-1	**Wall Mount (small)** For mounting the dome directly to a wall, corner mount, or pole mount.
V1001-JB	**Junction Box** Assists with wiring management of the dome's connectors. Requires wall mount (V1001-WM), which affixes to the J-Box. J-Box can mount directly to a wall, or to the corner mount (V1001-CM) or pole mount (V1001-PL).
V1001-CM	**Corner Mount** For mounting the dome to a corner. Requires wall mount (V1001-WM). The corner mount also accommodates the J-Box (V1001-JB).
V1001-PL	**Pole Mount** For mounting the dome to a pole. Requires wall mount (V1001-WM). The pole mount also accommodates the J-Box (V1001-JB).
V1001-PM	**Pendant Mount** For suspending the dome from the ceiling.
SVFT-UPM-2	**Parapet Mount** For mounting the dome over the raised barrier at the edge of a roof.
SVFT-UCM-1	**Hard Ceiling Mount** For affixing the dome directly to a hard ceiling.
V2000D-IC	**In-Ceiling Mounting Kit** Allows the V2000D to be installed in a hard or drop ceiling.
V2XXXD-DCB	**Drop Ceiling Bracket** Support bracket for V2000D-IC.

V2XXXD-PM V2100D-PLATE V1001-WM SVFT-WM-1 V1001-JB V1001-CM

V1001-PL V1001-PM SVFT-UPM-2 SVFT-UCM-1 V2000D-IC V2XXXD-DCB