VICON

AI ANALYTICS INSIDE

V2005D

Roughneck AI Dome Camera



NDAA GSA ONVIF S/G/T/M TAA

Overview

Vicon's Roughneck® AI Dome delivers 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

- 5 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

Specifications

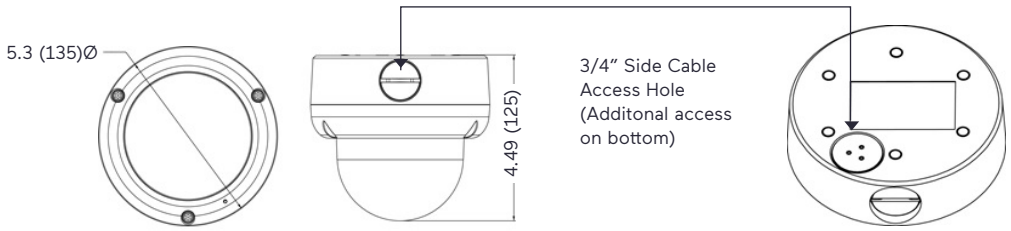
Model	V2005D
Camera	
Image Sensor:	1/2.8-in.
Max Resolution:	2592×1944 (5 MP)
Image Settings:	Digital image effects: defog, flip, mirror, corridor. Configurable brightness, contrast, saturation, hue, sharpness. White balance. BLC. HLC. Gain control. Gamma correction. Electronic shutter speed. Day/night 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
IR Distance:	Smart IR/Adaptive IR. 131 ft (40 m); 22 IR LEDs
Signal-to-Noise Ratio (SNR):	>50 dB
Lenses	
Focal Length:	3.1-10 mm; 3.2X 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
Iris:	DC autoiris
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)
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
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
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
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:	12 VDC: 1.2 A; 24 VAC: 0.6 A; PoE: 0.3 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)]



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.
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.

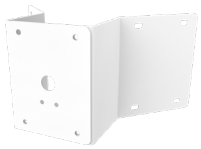

V2XXXD-PM


V2100D-PLATE


V1001-WM


SVFT-WM-1


V1001-JB


V1001-CM

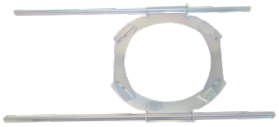

V1001-PL


V1001-PM


SVFT-UPM-2

SVFT-UCM-1


V2000D-IC


V2XXXD-DCB

Data Sheet Number: V318-50-12
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