VICON

AI ANALYTICS INSIDE

V2005D

Roughneck AI Micro-Dome with Built-In Mic



NDAA GSA ONVIF S/G/T/M TAA

Overview

The Roughneck® AI Micro-Dome delivers high performance in a small, durable form factor—just a two inch profile—with a built-in microphone. This 5 MP model includes Smart/Adaptive IR illumination, True WDR (120 dB), and Starlight low-light imaging. The camera is protected by a weatherproof (IP67), vandal-resistant (IK10) enclosure, and generates an alarm in the event someone attempts to obstruct or move the camera.

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
- 2.8 mm lens provides a nice wide-angle view of the entire area
- Built-in microphone eliminates the need to purchase and install a separate device for applications that require audio in
- Low-profile, compact design—just two inches high—is ideal for discreet, aesthetic installations
- Corridor mode allows for 90° rotation of the camera so images are created vertically, which maximizes the field-of-view in narrow situations
- Starlight low-light technology provides clear color images in extreme low-light conditions
- Integrated IR provides uniform illumination in total darkness for high-quality video from 49 feet (15 m) away

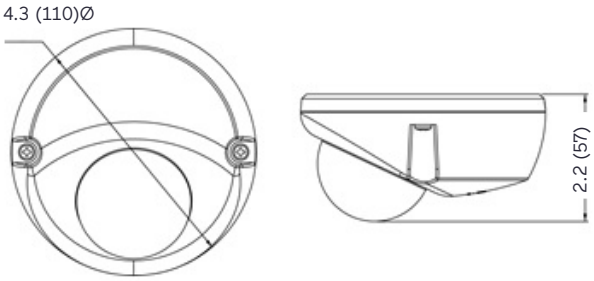
Specifications

Model	V2005D-W28IRM
Camera	
Image Sensor:	1/2.8-in.
Max Resolution:	2592×1944 (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, 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: 0.03 lux; BW: 0.01 lux, IR Off; 0 lux, IR On
IR Distance:	Smart IR/Adaptive IR. 49 ft (15 m); 8 IR LEDs
Signal-to-Noise Ratio (SNR):	>50 dB
Lenses	
Focal Length:	2.8 mm
Max. Aperture:	f/2.0
Zoom/Focus/Iris Adjust:	Fixed
Field of View: Horizontal/Vertical/Depth	104°/78°/134°
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:	Single: 5 MP@30fps; Dual: 5 MP@30fps + 1600 x 1200@30fps; Triple: 5 MP@30fps + 1600 x 1200@30fps + 640 x 480@30 fps
Audio:	Built-in mic/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
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), wall arm, pendant, J-Box, pole, corner, 4×4 electrical plate, backbox
Dimensions:	4.3 in. (110 mm) (Diam) x 2.2 in. (57 mm) (H)
Weight:	1.65 lb (0.75 kg)

Specifications

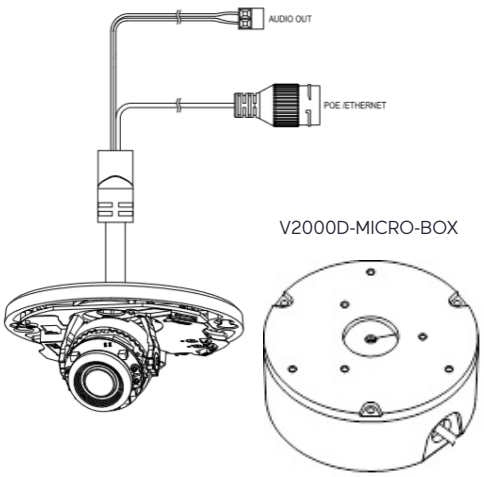
Model	V2005D-W28IRM
Electrical	
Input Power:	PoE IEEE 802.3af class 3
Current:	0.28 A
Power Consumption:	IR On: 13.5 W; IR Off: 8.5 W
Controls and Connectors	
Connectors:	Pigtail cable provided; optional backbox required for cabling. PoE/Network: RJ-45 CAT 5; Mic In; Audio Out: terminal block. Reset button; Default button; Micro SD card slot for SDHC/SDXC card (128 G max; customer-supplied)
Environmental	
Operating Conditions:	Temperature: -22° to 131° F (-30° to 55° C) Humidity: up to 90%, non-condensing
Approvals:	UL, FCC Class A, CE, IP67, IK10; ONVIF Profile S/T/G/M, RoHS
Country of Origin:	Taiwan
Warranty:	5 years

Dimensional Drawing [in. (mm)]



Pigtail Cable:

Use optional V2000D-MICRO-BOX (sold separately)



Ordering Information

Model	Description
V2005D-W28IRM	**5 MP Dome** 2.8 mm fixed lens; 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.
V2XXX-ADPT	**Adapter Plate** Allows the micro-dome to be mounted on the V2XXXD-PM.
V1001-WM	**Wall Mount (medium)** For mounting the micro-dome directly to a wall, J-Box, corner mount, or pole mount.
SVFT-WM-1	**Wall Mount (small)** For mounting the micro-dome directly to a wall, corner mount, or pole mount.
V1001-JB	**Junction Box** Assists with wiring management of the micro-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 micro-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 micro-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 micro-dome from the ceiling.
SVFT-UCM-1	**Hard Ceiling Mount** For affixing the micro-dome directly to a hard ceiling.
V2000D-MICRO-PLATE	**Adapter Plate** Allows the micro-dome to be mounted on a 4×4 electrial box.
V2000D-MICRO-BOX	**Backbox** For ease of cabling for the micro-dome.
V2XXX-WDG	**Wedge Mount** Allows the micro-dome to be surface-mounted on a tilt to maintain a full view.
V2XXX-WDG-PLATE	**Adapter Plate** Allows the V2XXX-WDG to be mounted on a 4×4 electrial box.

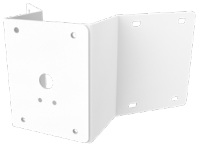

V2XXXD-PM


V2XXX-ADPT


V1001-WM


SVFT-WM-1


V1001-JB


V1001-CM


V1001-PL


V1001-PM

SVFT-UCM-1


V2000D-MICRO-PLATE


V2000D-MICRO-BOX


V2XXX-WDG


V2XXX-WDG-PLATE

Data Sheet Number: V318-30-11
Specifications subject to change without notice. Vicon, Roughneck and their logos are registered trademarks of Vicon Industries Inc.
Copyright © 2026 Vicon Industries Inc. All rights reserved.