VICON

V2000D-PTZ

Roughneck AI Series PTZ Dome Cameras

NDAA-Compliant · **GSA** · **Onvif** S/G/T/M · **TAA**

Overview

Available in 2 MP or 5 MP, Vicon's Roughneck® AI PTZ Series features advanced imaging and advanced analytics in a durable package. The camera delivers exceptional views with a powerful 30x optical/8x digital zoom along with a motorized focus and autoiris lens. It's rated for IP66 and housing is IK10 rated to withstand any type of environment.

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 resourcess

*Object classification analytics are available in the 5 MP (V2005D-PTZ) model only.

Product at a Glance

- Choose between 2 MP* and 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
- 30X optical zoom; 8X digital zoom
- Two-way audio; two alarm inputs/alarm outputs
- Heater/blower system for temperature control
- Integrated IR provides uniform illumination in total darkness for high-quality video from 492 feet (150 m) away

Specifications

Model	V2002D-PTZ	V2005D-PTZ
Camera		
Image Sensor:	1/2.8 inch Sony	
Max Resolution:	2 MP (1080p)	5 MP
Image Settings:	Digital image effects: defog, flip and mirror. 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. Electronic Image Stabilization (EIS).	
Intelligent Video Analytics:	5 profile/presents: 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:	1/30 ~ 1/10,000 sec	
Day/Night Performance:	True day/night (IR cut filter)	
Wide Dynamic Range	True WDR (120 dB)	
Minimum Illumination:	Color: 0.007 lux; B/W: 0.002 lux	Color: 0.03 lux; B/W: 0.01 lux
IR Distance:	Adaptive IR; Smart IR (Automatic): 492 ft (150 m)	
Lenses		
Focal Length:	4.5 - 135 mm (30X optical zoom); digital 8X	5.2 - 148 mm (30X optical zoom); digital 8X
Max. Aperture:	f/1.6 - f/4.4	f/1.3 - f/4.8
Iris:	Autoiris	
Zoom/Focus Adjust:	Motorized focus and zoom	
Field-of-View:	5° - 60° (H); 3° - 38° (V)	2.14° - 58.1° (H); 1.2° - 33.8° (V)
Network Video Transmission		
Network:	10Base-T, 100Base-TX, RJ-45	
Image Compression:	H.265/H.264 and M-JPEG	
Resolution:	1920×1080 (1080P), 1280×960/720, 800×600, 640×480, 640×360, 320×240	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, 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:	Max. 30 fps (25 fps, PAL)	
Streams:	Triple streaming. Single: 2 MP@30fps; Dual: 2 MP@30fps + 720p@15fps; Triple: 2 MP@30fps + 720@15fps + VGA @30fps	Triple streaming. Single: 5 MP@30fps; Dual: 5 MP@30fps + 5 MP@10fps; Triple: 5 MP@30fps + 5 MP@10fps + 640×480@30fps
Users:	Live viewing for up to 10 clients	
Web Browser:	Safari®, Firefox®, Google Chrome®, Microsoft® Edge	
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, IEEE 802.1X, Digest Authentication, Advanced Security	
Local Recording:	Micro-SD slot provided; customer supplied SDHC/SDXC card	

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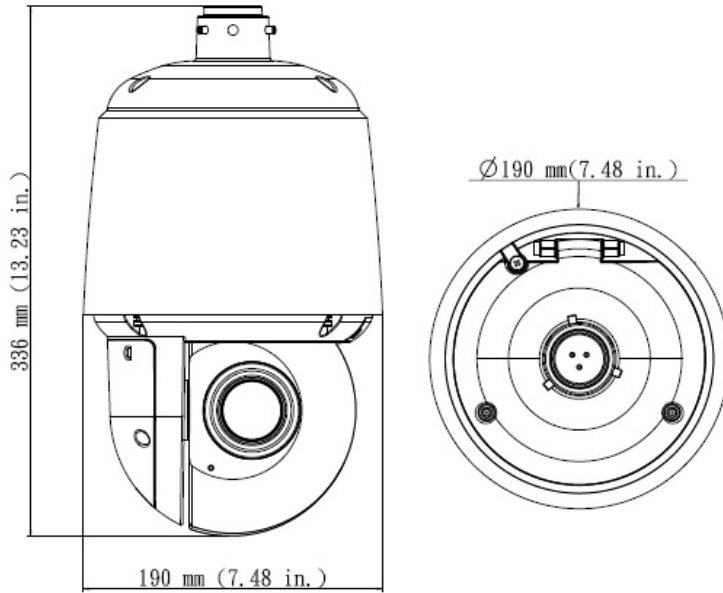
Specifications

Model	V2000D-PTZ
Mechanical	
Construction:	Aluminum base; polycarbonate dome bubble
Pan Range:	360° continuous pan
Pan Speed:	300°/second maximum
Tilt Range:	95° (-15° to 90°)
Tilt Speed:	160°/second maximum
Presets:	128
Tours/Pattern:	4/4
Alarm:	2 alarm inputs; 2 alarm output
Audio Capability:	Two-way audio; G.711 compression
Mounting:	Mounting accessories available. Refer to Ordering Information
Dimensions:	7.5 in. (190 mm) (Diam) x 13.2 in. (336 mm) (H); refer to dimensional diagram
Weight:	11.5 lb (5.2 kg)
Electrical	
Input Power:	PoE++ (IEEE 802.3bt, Class 7); 24 VAC (+20%/-10%); 48 VDC (±10%)
Current (IR on):	2.5 A @24 VAC; 1.25 A @48 VDC
Power Consumption:	Total Power: 48 W. PTZ Camera: 11 W; Pan/Tilt Function: 12 W; IR: 19 W; Heater: 5.5 W; Blower: 0.9 W. Note that blower is always on; heater turns on when temperature is lower than 59° F (15° C)
Controls and Connectors	
Indicators and Connectors:	Power: 24 VAC/48 VDC: terminal block. Network/PoE: RJ-45 CAT 5. Audio In/Out and Alarm In/Out: screw terminal. SDHC/SDXC Card Slot. Reset button. Default button. Indicators: green LED flashes for booting and software updating
Environmental	
Operating Conditions:	Temp: -40° to 140° F (-40° to 60° C) Humidity: up to 90%, relative, non-condensing Limitations in certain weather conditions, including blizzard conditions and freezing rain with high winds.
Approvals:	UL; FCC Class A; CE; IP66; IK10 (housing); ONVIF S/G/T/M; RoHS; BIS (2 MP version)
Country of Origin:	Taiwan
Warranty:	5 years

Ordering Information

Model	Description
V2002D-PTZ	2 MP PTZ dome camera
V2005D-PTZ	5 MP PTZ dome camera; includes object classification analytics
Mounting Accessories	
SVFT-UWM-1/ SVFT-WM-1	Wall Mounts; for installation on a wall
SVFT-UCM-1	Ceiling Mount; for mounting to a ceiling
V1001-PM	Pendant Mount; for mounting in a pendant configuration
SVFT-UPM-2	Parapet Mount; for parapet mounting
V-24CMB-4	Corner Mount; for corner mounting a wall mount
V-20B-A-4	Pole Mount Adapter; for pole mounting a wall mount
VPOE-INJ-60BT	Single-port PoE gigabit injector; compatible with IEEE802.3bt; 60 W output; NDAA/TAA compliant
VPOE-INJ-90BT	Single-port PoE gigabit injector; compatible with IEEE802.3bt; 90 W output; NDAA compliant

Dimensional Drawing

[in. (mm)]

336 mm (13.23 in.)

190 mm (7.48 in.)

Ø190 mm(7.48 in.)

| SVFT-UWM-1 | SVFT-WM-1 | SVFT-UCM-1 | V1001-PM | SVFT-UPM-2 | V-24CMB-4 | V-20B-A-4 | VPOE-INJ-60BT | VPOE-INJ-90BT |

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