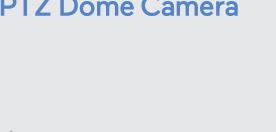


V2005PTZ-40XIR-B
Roughneck Pro
PTZ Dome Camera





NDAA GSA Onvir TAA

Overview

The Vicon Roughneck® Pro 5MP PTZ Camera combines advanced imaging performance with a ruggedized design, making it ideal for demanding security applications. Featuring a powerful 40x optical zoom lens with motorized focus and P-iris control, the camera delivers exceptional detail and clarity across wide coverage areas and long distances.

Engineered for challenging environments, the camera is housed in an IP66 weatherproof and IK10 vandal-resistant enclosure, ensuring reliable protection against dust, water, high-pressure jets, and physical impacts. An integrated electronic image stabilizer (EIS) minimizes vibration and motion blur, maintaining image sharpness even at full zoom or in windy installations.

The camera incorporates the latest multi-exposure HDR engine, producing natural, high-quality images in scenes with both bright and dark areas, without blending artifacts. Smart/Adaptive IR technology provides illumination up to 820 ft (250 m), while the True Day/Night ICR function ensures accurate color reproduction during the day and clear monochrome imaging at night.

The Advanced AF technology, combines built-in LiDAR module with the machine learning contrast auto focus, greatly helps the camera to focus faster, achieve better accuracy and escalate focus performance to another level.

Intelligent functionality includes auto-tracking of people and servo feedback technology, ensuring precise positioning with zero drifting. The camera supports quad streaming with multi-codec compression, edge storage via microSD/SDHC/SDXC card, and high-quality audio code for integrated surveillance solutions. Fully compliant with ONVIF Profiles S, G, T, and M, the Roughneck® Pro 5MP PTZ integrates seamlessly with Vicon ValerusTM and other leading VMS platforms.

Product at a Glance

- ▶ 5MP Resolution
- ▶ 40X optical zoom
- ▶ Multi Exposure HDR
- ▶ Auto-tracking of people
- ▶ 820 ft/250 m IR range; Smart IR/ Adaptive IR
- ▶ Electrical Image Stabilizer (EIS) Support
- True Day/Night function (ICR)
 True WDR (120 dB)
- ▶ Servo Feedback Zero Drifting
- ▶ 3D Motion Compensated Noise Reduction (MCTF)
- ▶ LiDAR or Wiper support*
- ▶ Audio codec for superb audio quality
- ▶ ONVIF Profile S/ G/ T/ M support
- Weatherproof (IP66) and Vandal proof (IK10 Rating)



Specifications

Model	V2005PTZ-40XIR-B
Camera	
Image Sensor:	1/2.8" Sony Progressive CMOS Sensor
Max Resolution:	2608 (H) X 1964 (V) (5MP)
Image settings	Digital image effects: OSD (time, date, camera name, custom text, Image); Brightness/Contrast/Saturation/Sharpness/Hue; Exposure Management, WDR Corridor; Mirror (Flip Normal/Vertical/Horizontal/180%/90° Clockwise/90° Counterclockwise); Backlight control (BLC); White Balance (AWB/manual); Anti-flicker; Gain control (auto/manual); Digital noise reduction (2D/3D DNR); ROI (areas each for stream 1 and 2); Privacy Mask (5 areas); Motion Detection; Tamper Detection
Video Content Analysis (VCA)	Motion, Tampering, Line Crossing, Object in Zone, Crossline counting, Occupancy in zone, Loitering, Parking Violation, Wrong Way, People Gathering, Face Recognition, Face Detection, Auto Face Enrolment, Violence Detection, LPR, Vehicle Recognition, Abandoned Object, Object classification (Human, Vehicle) and Object Attributes (Gender, Age, Color, Type, Band), Removed Object, Heat Map, Safety: PPE Detection, Auto Tracking, Tagging.
Electronics Shutter Speed:	1~ 1/1,35,000 sec
Day/Night Performance:	True day/night (Automatically Removable IR-cut filter)
High Dynamic Range	Gen3 Engine
EIS	Yes
LiDAR Support	Yes
Minimum Illumination:	Color: 0.02 lux; BW: 0.004 lux (IR On)
Signal-to-Noise Ratio:	≥50 dB
IR Distance:	Smart IR; up to 820 ft (250 m)
Lenses	
Focal Length:	4.25 - 170 mm
Max. Aperture:	F1.4
Image Rotation	90°, 180°, 270° rotation
Field-of-view: Horizontal/Vertical	1.9° (tele) - 62.6° (wide)/1.4° (tele) - 48.8° (wide)
Network Video Transmiss	ion
Network:	10/100/1000 Mbps Base-T: RJ-45; TCP/IP-based Ethernet network
Image Compression:	H.264; H.265; M-JPEG
Resolution:	2592x1944, 2560x1440, 2048x1536, 2304x1296, 1920x1080 (1080P), 1600x1200, 1440x1080, 1600x900, 1280x960/720, 800x600, 640x480/360, 320x240/180
Protocol:	ARP, PPPOE, IPv4/v6, ICMP, IGMP, QOS, TCP, UDP, DHCP, UPnP, SNMP, SMTP, RTP, RTSP, RTCP, HTTP, HTTPS, FTP, NTP, DDNS, 802.1X. ICMP, TCP/IP, Config, ONVIF Profile S/G/T/M
Streaming:	Unicast and Multicast streams. Quad streaming. Up to 4 individually configurable streams in H.265/H.264/MJPEG Configurable resolution/frame rate/bandwidth LBR/VBR/CBR in H.265/H.264
Frame Rate	30/25 fps
Data Rate:	Rate control: LBR/VBR/CBR
Mean Time Before Failure:	MTBF: 100,000 hours
Web Browser:	Microsoft® Edge®; Google® Chrome®, Mozilla® Firefox®
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, multi-user authority, Password Security, User Authentication/HTTPS/IP Filter/IEEE 802.1x, TLS 1.0/1.2/1.3, DES, AES, User Access Log
Event Trigger:	External Input, Analytics, Network Failure Detection, Periodical Event, Manual Trigger
Notifications:	Send message via Email/record to FTP/NAS/SD card, record JPG/mp4
Users:	Live viewing for up to 10 clients
Audio I/0:	1/1 (line in/line out)
Audio Streaming:	G.711/G.726/ AAC/ LPCM; 2 Way
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Specifications

V2005PTZ-40XIR-B
4 In and 2 Out
Support for microSD/ microSDHC/ microSDXC card (up to 512 GB max) Support for recording to NAS
Plastic Body
Pan: 0~360° endless
Auto: 0.05 - 720°/s, Manual: 0.1~100°/s
Tilt: -20~100°
Auto: 0.05 - 540°/s, Manual: 0.1~55°/s
Pan: 300°/s, Tilt: 300°/s
256; Accuracy: 0.01°
8 Sequence, 8 cruise, 4 auto pan
People
Adjusted using external mount
Yes
1.5" NPT Pipe Interface
207x300 mm with Sunshield
8.60 lb (3.9kg)
PoE IEEE802.3bt, Type 3, class6, max 51 watt AC24V, max 53.10 watt, max 74.80 VA
51 W (PoE), 53.1W(24V AC)
PoE, Video, Data: RJ-45; Power: 12 VDC plug; Audio In/Out: jacks;
Operating Temp: -40° to 122° F (-40° to 50° C) with Heater Humidity: 10% to 90%, non-condensing
-20° to 70° C
UL, FCC, CE, IP66, IK10;RoHS; NDAA compliant;
Taiwan



Ordering Information

Model	V2005PTZ-40XIR-B
Description	OUTDOOR PTZ Dome Camera; 5 MP; HDR; 4.25-170 mm, 40X Zoom; IR; NDAA/GSA/TAA compliant;

Data Sheet Number: V326-203-00A-0525

Vicon Data Sheet Number: 8009-7326-13-26A-0525

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