

V2005BX-VF40X-E Roughneck Pro Network Zoom Box Camera





Overview

The Vicon Roughneck® Pro V2005BX-VF40X-B HD IP Zoom Box Camera is a professional-grade 5MP network camera designed for demanding commercial and industrial security applications. Incorporating the advanced Al Engine Gen 2, the camera delivers intelligent analytics and superior object detection performance.

Equipped with a motorized varifocal lens, the V2005BX-VF40X-B ensures precise focusing and sharp image quality across various scenes. Multi-exposure HDR provides balanced imaging in high-contrast lighting environments, while 3D Motion Compensated Noise Reduction (MCTF) enhances image clarity in low-light conditions. The True Day/Night ICR function ensures optimal color reproduction during the day and clear monochrome imaging at night.

The camera supports quad streaming with multi-codec compression (H.265/H.264/MJPEG), delivering low-latency video optimized with Smart Low Bitrate control to conserve bandwidth and storage. Local edge recording is supported via microSD/SDHC/SDXC card slot.

For system integration, the V2005BX-VF40X-B is fully compliant with ONVIF Profiles S, G, T, and M, and offers features such as text overlay and privacy masking. With triple power support (PoE/12VDC/24VAC), the camera provides flexible installation options. It can be seamlessly deployed with explosion-proof fixed and PTZ housings, making it highly suitable for critical infrastructure and hazardous environments.

Product at a Glance

- ▶ 5MP Resolution
- Al Engine Gen 2 (Deep Neural Network Accelerated Engine)
- ▶ Multi Exposure HDR
- ▶ Low latency Streaming
- Multi Codec support (H.265/ H.264/MJPEG)
- Quad Streaming
- ▶ True Day/Night function (ICR)
- ▶ 3D Motion Compensated Noise Reduction (MCTF)
- ▶ Smart Low Bitrate control
- Micro SD/ SDHC/ SDXC Card support
- ONVIF Profile S/G/T/M support
- ▶ Text Overlay and Privacy Masks
- Triple power support (PoE/DC12V/AC24V)



Specifications

Model	V2005BX-VF40X-B
Camera	
Image Sensor:	1/2.8" Progressive CMOS
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; Corridor; Mirror (Flip Normal/Vertical/Horizontal/180°/90° Clockwise/90° Counterclockwise); Backlight control (BLC); White Balance (AWB/manual); Anti-licker; 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, Auto Face Enrolment, Violence Detection, LPR, Vehicle Recognition, Abandoned Object, Removed Object, Heat Map, PPE Detection
Electronics Shutter Speed:	1~ 1/1,35,000 sec
Day/Night Performance:	Automatically removable IR-cut filter
EIS	Yes
High Dynamic Range	Gen3 Engine
Minimum Illumination:	Color: 0.08 lux; BW: 0.008 lux (IR On)
Signal-to-Noise Ratio:	≥ 50dB
Lenses	
Focal Length:t	4.3 - 170 mm
Max. Aperture:	F1.6
Iris:	P-Iris, Auto-Iris
Zoom/Focus Adjust:	40X Zoom Lens
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:	2592x1964, 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, HTTP, HTTPS, FTP, NTP, DDNS, 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	60 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, User Authentication/HTTPS/IP Filter/IEEE 802.1x
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

Model	V2005BX-VF40X-B	
Camera		
Alarm Relay:	2 In and 1 Out	
Storage:	Support for microSD/ microSDHC/ microSDXC card (up to 512 GB max) Support for recording to NAS	
Mechanical		
Construction:	Metal	
Camers Angle of Adjustment:	Mount dependent	
Diamensions:	116x82.6x60 mm	
Weight:	1.15 lb (0.52 kg)	
Electrical		
Input Power	POE IEEE802.3af, class 0, max 12.90 watt DC12V, max 15.24 watt AC24V, max 13.19 watt, max 25.20 VA	
Power Consumption	12.9W (PoE), 15.2W (12V DC), or 13.2W / 25.2VA (24V AC)	
Controls and Connectors:	PoE, Video, Data: RJ-45; Power: 12 VDC plug; Alarm In/Out: terminal block; Audio In/Out;RS485 Terminal block; Reset button	
Enviromental		
Operating Conditions	Operating Temp: -22° to 131° F (-30° to 55° C) Humidity: 10% to 90%, non-condensing	
Storage Conditions	-20° to 70° C	
Approvals:	UL, FCC, CE, ROHS; NDAA compliant;	
Country of Origin:	Taiwan	

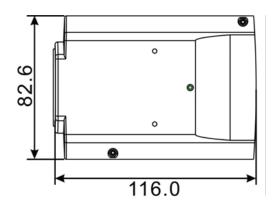


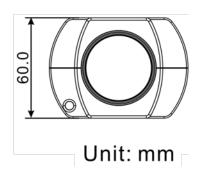
Ordering Information

Model	V2005BX-VF40X-B
Description	ZOOM BOX CAMERA; 5 MP; HDR; 4.3-170 mm 40X Zoom; NDAA/GSA/TAA compliant;

Dimensional Drawing

40x Zoom Models





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