



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 AI 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
- ▶ AI 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 Transmission | |
| 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/O: | 1/1 (line in/line out) |
| Audio Streaming: | G.711/ G.726/AAC/ LPCM; 2 Way |

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

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| 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

