



V2008BX-NL-B Roughneck Pro Network Box Camera



Overview

The Vicon Roughneck® Pro V2008BX-NL-B HD IP Box Camera is a professional-grade 8MP surveillance camera engineered for high-performance security installations. Incorporating the AI Engine Gen 2 (Deep Neural Network Accelerated Engine), it provides advanced analytics and reliable detection for critical monitoring applications.

Equipped with a motorized varifocal lens, the camera ensures sharp, detailed imaging, while the optional Auto Back Focus (ABF) feature simplifies installation and guarantees precise focus. Multi-exposure HDR technology enhances visibility in high-contrast environments, and 3D Motion Compensated Noise Reduction (MCTF) improves low-light performance. The True Day/Night ICR function ensures accurate color reproduction by day and superior monochrome imaging at night.

The camera supports quad streaming with multi-codec compression (H.265/H.264/MJPEG), effectively reducing bandwidth and storage requirements without compromising image quality. Local edge recording is available via microSD/SDHC/SDXC card support, while RS-485 connectivity enables seamless integration with external devices.

Offering triple power input options (PoE/12VDC/24VAC), the V2008BX-NL-B provides flexible deployment in diverse installation environments. Fully compliant with ONVIF Profiles S, G, T, and M, it integrates seamlessly with Vicon Valerus™ VMS and a wide range of third-party platforms.

Product at a Glance

- ▶ 8MP Resolution
- ▶ Auto Back Focus (ABF) Option
- ▶ AI Engine Gen 2 (Deep Neural Network Accelerated Engine)
- ▶ Multi Exposure HDR
- ▶ Multi Codec support (H.265/H.264/MJPEG)
- ▶ Quad Streaming
- ▶ True Day/Night function (ICR)
- ▶ 3D Motion Compensated Noise Reduction (MCTF)
- ▶ Micro SD/ SDHC/ SDXC Card support
- ▶ RS485 Support
- ▶ Triple Power Support (PoE/ DC12V/ AC24V)
- ▶ ONVIF Profile S/ G/ T/ M support

Specifications

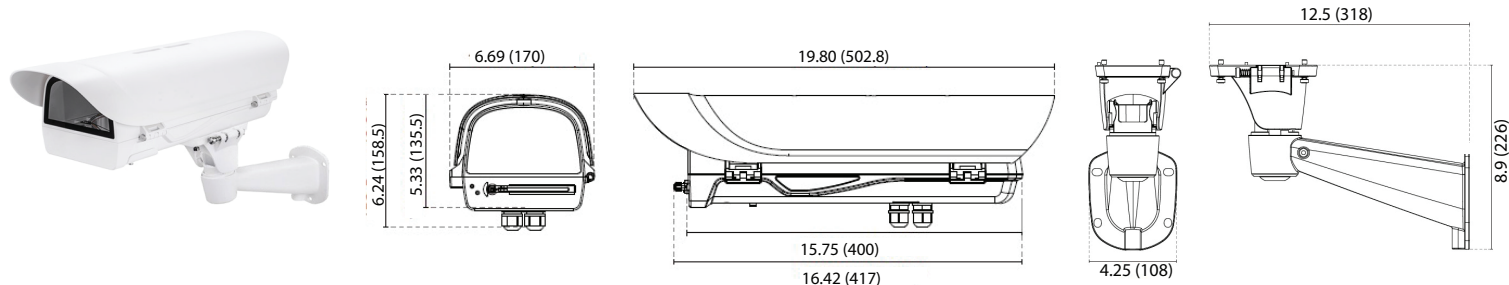
Model	V2008BX-NL-B
Camera	
Image Sensor:	1/1.8" Progressive CMOS
Max Resolution:	3856 (H) X 2180 (V) (8MP)
Image settings	Digital image effects: OSD (time, date, camera name, custom text, image); Brightness/Contrast/Saturation/Sharpness/Hue; Corridor; Mirror (Flip Normal/Vertical/Horizontal/180°/90° Clockwise/90° Counterclockwise); Backlight control (BLC); White Balance (AWB/manual); Anti-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, Auto Face Enrolment, Violence Detection, LPR, Vehicle Recognition, Abandoned Object, Removed Object, Heat Map, Safety:PPE Detection
Electronics Shutter Speed:	1~ 1/67,500 sec
Day/Night Performance:	Automatically removable IR-cut filter
High Dynamic Range	Yes
Minimum Illumination:	Color: 0.08 lux; BW: 0.008 lux (IR On)
Signal-to-Noise Ratio:	≥ 50 dB
Lenses	
Lens Type:	CS/i-CS Mount, Remote Focus (ABF)
Iris:	P-Iris, Auto-Iris
Focus Control	Auto Back-focus (ABF) button in web for easy focus adjustment
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:	3840x2180, 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:	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
Web Browser:	Microsoft® Edge®, Google® Chrome®, Mozilla® Firefox®
Security:	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), Microphone built-in
Audio Streaming:	G.711/ G.726/AAC/ LPCM; 2 Way
Alarm Relay:	2 In and 1 Out
Storage:	Support for microSD/ microSDHC/ microSDXC card (up to 512 GB max) Support for recording to NAS

Specifications

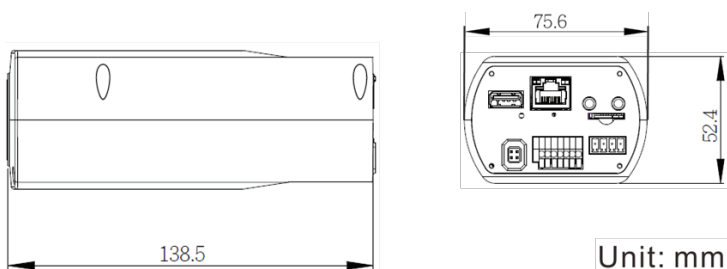
Model	V2008BX-NL-B
Mechanical	
Construction:	Metal and Plastic
Camers Angle of Adjustment:	Mount dependent
Diamensions:	138x75x52 mm
Weight:	1.17 lb (0.53 kg)
Electrical	
Input Power	POE IEEE802.3af, class 0, max 12.90 watt DC12V, max 15.24 watt AC24V, max 13.19 watt, max 25.20 VA
Power Consumption	12.9W (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; USB-A; 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; NDAA compliant;
Country of Origin:	Taiwan

Model	V-HSG-POE
Housing	
Viewing Window:	Chemically strengthened glass
Construction:	Cast aluminum
Cabling:	4x M16 waterproof cable glands
De-icing Window Heater:	≤68° F (20° C) On; ≥86° F (30° C) Off; 10 W
Fan:	≥95° F (35° C) On; ≤77° F (25° C) Off; 2 W
Power Input:	60 W /90 W IEEE 802.3bt PoE, 50 ~ 57 VDC
IR Features:	2 LEDs; Beam Angle: 10°-40°, DIP switch selectable; Distance: 164-459 ft (50-140 m); Wavelength: 850 nm; 12 W
Coating:	White epoxy powder coating
Ratings:	Weather: IP68; Vandal: IK10
Operating Temperature:	-4° F ~ 149° F (-20° C ~ 65° C) -4° F ~ 122° F (-20° C ~ 50° C) with IR LEDS
Weight:	8.5 lb (3.85 kg)
Country of Origin:	Taiwan

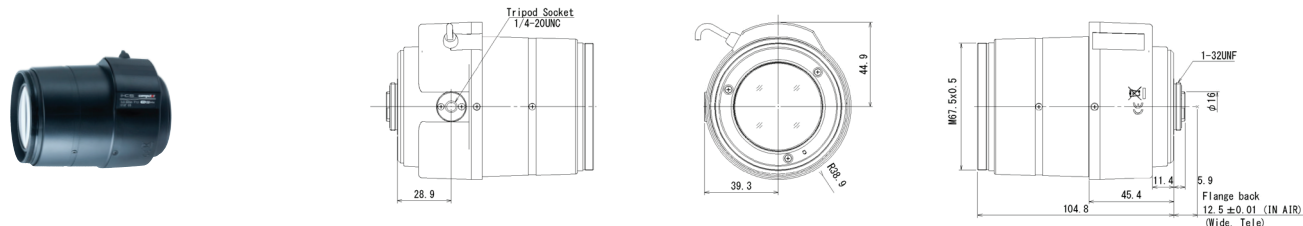
Housing with Wall Mount



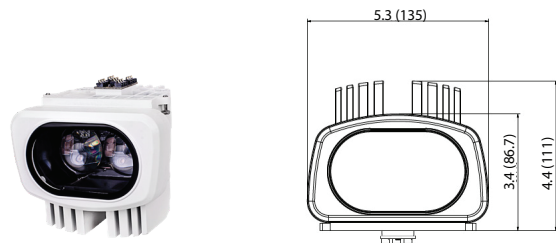
Box Camera



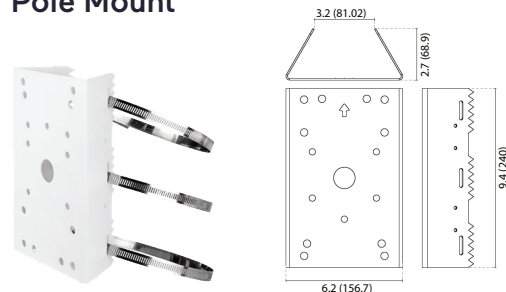
Lens



IR Illuminator



Pole Mount



Data Sheet Number: V326-95-00A-0525

Vicon Data Sheet Number: 8009-7326-10-06A-0525

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Specifications

Model	V0950VF-ICS
Lens	
Imager Format:	1/1.8 in.
Mount Type:	Yes
Focal Length:	9 - 50 mm
Aperture:	f/1.5
Field-of-View (16:9):	46.1° x 26.3°
Iris:	Stepping motor
IR:	Yes

Ordering Information

Model	V2008BX-NL-B
Description	BOX CAMERA; 8 MP; HDR;ABF; NDAA/GSA/TAA compliant;
Accessories	
V-0950VF-iCS	9 - 50 mm focal length; i-CS lens; CS mount
V-HSG-POE	Vandalproof (IP68/IK10) outdoor housing with built-in PoE management; includes window heater/fan and wall mount
V-IR-140	IR illuminator option for the V-HSG-POE; 164 - 459 ft (50 - 140 m) distance, 10° - 40° beam angle
V-HSG-PM	Pole mount adapter