



## V2102B-W310MIR-A Roughneck Network Bullet Camera



### Overview

Vicon's Roughneck® V2102B-W310MIR-A HD IP Bullet Camera is a cost effective design which delivers excellent performance in the commercial security installations. This 1080P (2 MP) model is matched with a motorized varifocal lens to ensure sharp image quality. The camera includes Smart IR LEDs to provide clear images up to 131 ft (40 m) from the camera during low light conditions.

The camera provides quad-streaming video and supports H.264/H.265 compression technology, significantly reducing file sizes and conserving valuable network bandwidth; M-JPEG is also available.

The camera can be used with Vicon Valerus™ as well as many other popular VMS systems; each VMS may support different camera functions.

### Product at a Glance

- ▶ 1080P (2 MP)
- ▶ True WDR (120 dB)
- ▶ H.265/H.264, M-JPEG compression
- ▶ Smart IR LEDs (131 ft/40 m IR range)
- ▶ 3.1-10 mm motorized zoom & focus varifocal lens
- ▶ 0.04 lux low light (color)
- ▶ Starlight low-light technology provides clear color images in extreme low-light conditions
- ▶ Power-over-Ethernet (PoE); 12 VDC
- ▶ Two-way audio (line in/out)
- ▶ uSD card slot for on-camera storage
- ▶ Alarm Relay (1 In/1 Out)
- ▶ NDA compliant; Cyber Security Certified by STQC as per IoTSCS; ONVIF S/T/G

## Specifications

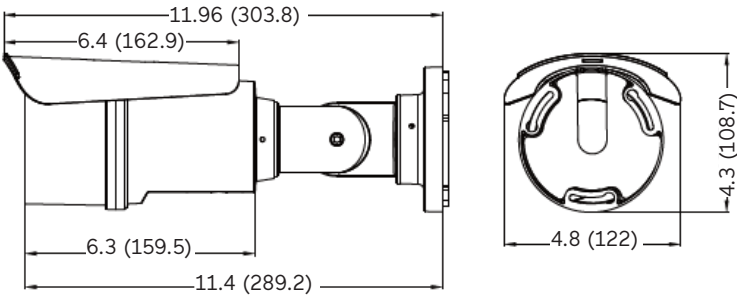
Model	V2102B-W310MIR-A
Image Sensor:	1/2.8" 2 MP CMOS progressive scan
Max Resolution:	1920 (H) x 1080 (V) (2 MP)
Image Settings:	Digital image effects: OSD (time, date, camera name, custom text); Brightness/Contrast/Saturation/Sharpness/Hue; Corridor; Mirror (Flip Normal/Vertical/Horizontal/180°/90° 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; Museum Search
Electronic Shutter Speed:	Auto (1 ~ 1/10,000 sec), manual
Day/Night Performance:	True day/night (IR cut filter)
Wide Dynamic Range:	True WDR; 120 dB
Minimum Illumination:	Color: 0.04 lux; BW: 0.00 lux (IR On) @f/1.4
Signal-to-Noise Ratio:	≥50 dB
IR Distance:	Smart IR; 131 ft (40 m)
Lenses	
Focal Length:	3.1-10 mm; 3.2X optical zoom
Max. Aperture:	f/1.4 -f/2.8
Iris:	P-iris
Zoom/Focus Adjust:	Motorized zoom and smart focus
Field-of-View Horizontal/Vertical:	39° (tele) - 100° (wide)/22° (tele) - 55° (wide)
Network Video Transmission	
Network:	10/100Base-T: RJ-45; TCP/IP-based Ethernet network
Image Compression:	H.264; H.265; M-JPEG
Resolution:	1920 x 1080 (1080P), 1280 x 720 (720P), 384 x 216
Protocol:	TCP/IP, IPv4, IPv6, UDP, DHCP, RTP, RTSP, NTP, FTP, UPnP, HTTP, HTTPS, SSL, SMTP, DDNS, 802.1x, Bonjour/Zero Config, ONVIF Profile S/G/T
Streaming:	Unicast and Multicast streams. Quad streaming. Stream 1: 1920 x 1080 @30fps; 1280 x 720 @30fps Stream 2: 1920 x 1080 @30fps; 1280 x 720 @30fps Stream 3: 384 x 216 @30fps Stream 4: 384 x 216 @30fps
Data Rate:	Rate control: CBR/VBR/CVBR
Mean Time Before Failure:	MTBF: 100,000 hours
Web Browser:	Microsoft® Edge®; Google® Chrome®, Apple® Safari®, Mozilla® Firefox®
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, multi-user authority
Event Trigger:	Motion Detection, Tampering Detection, Alarm In
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 8 KHZ/16 bit; two way
Alarm Relay:	1 In and 1 Out
Storage	Micro SD (up to 512 GB max)

Specifications

Mechanical	
Construction:	Metal housing
Camera Angle of Adjustment:	Adjusted using integral wall mount
Mounting:	Surface mount
Dimensions:	11.96 in. (303.8 mm) (L) x 4.3 in. (108.7 mm) (H) x 4.8 in. (122 mm) (W)
Weight:	3.19 lb (1.45 kg)
Electrical	
Input Power:	PoE IEEE 802.3af; 12 VDC
Power Consumption	9 W
Controls and Connectors:	PoE, Video, Data: RJ-45; Power: 12 VDC plug; Alarm In/Out: terminal block; Audio In/Out: jacks; Reset button

Environmental	
Operating Conditions:	Operating Temp: -40° to 122° F (-40° to 50° C) Humidity: 10% to 90%, non-condensing
Approvals:	FCC Part 15, CE, IK10, IP66; NDAA compliant; Cyber Security certified by STQC as per IoTSCS
Country of Origin:	Taiwan
Warranty:	5 years

Dimension Drawing (mm)



Ordering Information

Model Number	Description
V2102B-W310MIR-A	OUTDOOR BULLET STARLIGHT CAMERA; 2 MP; true WDR; 3.1-10 mm motorized varifocal lens; IR; NDAA/GSA/TAA compliant; Cyber Security Certified by STQC as per IoTSCS

Data Sheet Number: V326-10-00A-0525  
Vicon Data Sheet Number: 8009-7326-10-00A-0525

Specifications subject to change without notice.  
Vicon, Roughneck and their logos are registered trademarks of Vicon Industries Inc.  
Copyright © 2025 Vicon Industries Inc. All rights reserved.

Edge is a trademark of Microsoft Corporation.  
Chrome is a registered trademark of Google LLC.  
Firefox is a registered trademark of Mozilla Corp.  
Safari is a registered trademark of Apple Inc.