



### Product at a Glance

- ▶ Starlight 2 MP, 5 MP and 8 MP models
- ▶ True WDR (120 dB)
- ▶ H.265/H.264 compression; M-JPEG compression
- ▶ 131 ft/40 m IR range; Smart IR/Adaptive IR
- ▶ Motorized zoom and focus varifocal lens
- ▶ Triple streaming
- ▶ Smart Encoding
- ▶ VCA; Museum Search
- ▶ Power-over-Ethernet (PoE); 12 VDC; 24 VAC
- ▶ SD card slot for on-camera storage
- ▶ Dual heaters for defog and low temperature operation
- ▶ IP67 rated for outdoor environments
- ▶ IK10 rated for impact protection, including front glass
- ▶ NDAA/GSA/TAA compliant; ONVIF S/T/G/Q
- ▶ Surface mounting on wall or ceiling

### Overview

Vicon's Roughneck® Pro V2000B Series of HD IP Bullet Cameras is designed for performance in the most demanding security installations. There are 2 MP, 5 MP and 8 MP models with a motorized varifocal autoiris lens; the 8 MP model has a P-Iris lens; all models offer Starlight low-light imaging.

The V2000B Series provides triple streaming video and supports H.264/H.265 compression technology, significantly reducing file sizes and conserving valuable network bandwidth. Smart encoding effectively enhances video encoding efficiency and further reduces transmission rate and improves storage capacity.

The bullet camera is designed for easy installation. Power over Ethernet (IEEE 802.3af) eliminates the need for power cables, providing a cost-effective method of installation. The camera also accepts 12 VDC and 24 VAC. A dual heater system is provided that maintains proper temperature in the camera housing and prevents fogging of the window. The bullet camera can be mounted on a wall or ceiling. Refer to Ordering Information for details on accessories and other mounting options.

In order to adapt to constantly changing outdoor lighting conditions, the V2000B Series features an autoiris lens that maintains picture quality under changing lighting conditions. The true day/night progressive scan camera also includes a removable IR cut filter for superior image quality in all lighting conditions. True Wide Dynamic Range (120 dB) further improves video exposure quality in scenes with high contrast between bright and dark areas. Smart IR adjusts the intensity of the camera's infrared LEDs to compensate for the distance of an object and built-in Adaptive IR adjusts the IR output dynamically to prevent oversaturation in the scene as the light changes.

For protection against the elements, the bullet camera is IP67 rated with a IK10 vandal-proof casing to withstand rain, dust, and vandalism. The camera meets the latest regulations required to be NDAA, GSA schedule and TAA approved and support ONVIF profiles S/T/G/Q.



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

## Specifications

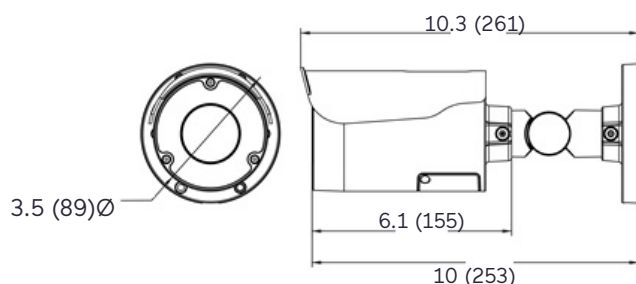
Model	V2002B-W313MIR		V2005B-W313MIR	V2008B-W310MIR
Image Sensor:	1/2.8-in.			1/1.8-in.
Max Resolution:	1920 x 1080 (1080p)	2592×1944 (5 MP)		3840×2160 (8 MP)
Image Settings:	Digital image effects: defog, flip, and mirror and corridor. Configurable brightness, contrast, saturation, hue, sharpness. White balance. Backlight Compensation (BLC). HLC. Gain control. Gamma correction. Electronic shutter speed. Day/night mode. Dynamic Noise Reduction (3 DNR). Motion detection (4 programmable zones). Privacy masking (8 masks). Dynamic ROI. Digital zoom. Event notification.			
Intelligent Video Analytics:	Motion, Tampering/Defocus, Intrusion, Loitering, Line Cross/Counting, Object Left/Removed, Area Counting, Wrong Direction. Museum Search.			
Electronic Shutter Speed:	Auto (1/2 ~ 1/10,000 sec), manual			
Day/Night Performance:	True day/night (IR cut filter)			
Wide Dynamic Range	True WDR; 120 dB			
Minimum Illumination (@ 30 IRE):	Color: 0.007 lux; BW: 0.002 lux, IR Off; 0 lux, IR On	Color: 0.03 lux; BW: 0.01 lux, IR Off; 0 lux, IR On		Color: 0.02 lux; BW: 0.01 lux, IR Off; 0 lux, IR On
IR Distance:	Smart IR/Adaptive IR. 131 ft (40 m); 4 IR LEDs			
Dual Heater System:	For low temperature operation: heater turns on at -40° F (-40° C) and off at 59° F (15° C). For defog operation: heater turns on at -40° F (-40° C) and off at 140° F (60° C)			
Lenses				
Focal Length:	3.1-10 mm; 3.2X optical zoom			3.6-10 mm; 2.8X optical zoom
Max. Aperture:	f/1.4 - f/2.8			f/1.5 - f/2.8
Iris:	DC autoiris			P-Iris (Manual/Auto)
Zoom/Focus Adjust:	Motorized zoom and focus			
Field of View: Horizontal/Vertical/Depth	34° (tele) - 110° (wide)/ 20° (tele) - 58° (wide)/ 40° (tele) - 134° (wide)	32° (tele) - 96° (wide)/ 24° (tele) - 69° (wide)/ 40° (tele) - 124° (wide)		46° (tele) - 98° (wide)/ 26° (tele) - 54° (wide)/ 54° (tele) - 113° (wide)
Network Video Transmission				
Network:	10/100Base-T/TX: RJ-45			
Image Compression:	H.264; H.265; M-JPEG			
Resolution:	2 MP: 1920×1080 (1080P), 1280×960/720, 800×600, 640×480, 640×360, 320×240 5 MP: 2592×1944/1520, 2560×1440, 2048×1536, 2304×1296, 1920×1080 (1080P), 1600×1200, 1440×1080, 1600×900, 1280×960/720, 800×600, 640×480/360, 320×240/180 8 MP: 3840×2160, 3264×1840, 2592×1944, 2688×1520, 2048×1536, 1920×1080 (1080P), 1280×960/720, 800×600, 640×480, 640×360, 320×240			
Protocol:	ARP, DHCP, DNS, FTP, HTTP, HTTPS, HLS, ICMP, IGMP, IPv4/6, LDAP, NTP, RTSP/RTCP/RTP, RTMP, QoS, SMTP, SNMP v1/2c/3, TCP, TLS/TTLS, UDP, UPnP, 802.1X, UPnP, Bonjour, DDNS, PPPoE; ONVIF S/G/Q/T			
Frame Rate:	30/25 fps max			
Streams:	Triple streaming. 2 MP: Single: 2 MP@30fps; Dual: 2 MP@30fps + 1280×720@30fps; Triple: 2 MP@30fps + 1280×720@30fps + 640 x 360@30 fps 5 MP: Single: 5 MP@30fps; Dual: 5 MP@30fps + 1600×1200@30fps; Triple: 5 MP@30fps + 1600×1200@30fps + 640 x 480@30 fps 8 MP: Single: 8 MP@30fps; Dual: 8 MP@30fps + 640×480@30fps; Triple: 8 MP@30fps + 640×480@30fps + 320 x 240@30 fps			
Alarms:	1 alarm input/1 alarm output			
Audio:	1 audio input/1 audio output (line in/out); G.711 (a-law, μ-law); audio level alarm			
Users:	Live: 10 users			
Web Browser:	Internet Explorer 11®; Chrome®, Safari®, Firefox®, Microsoft® Edge			
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, IEEE 802.1X, Digest Authentication, Advanced Security			

## Specifications

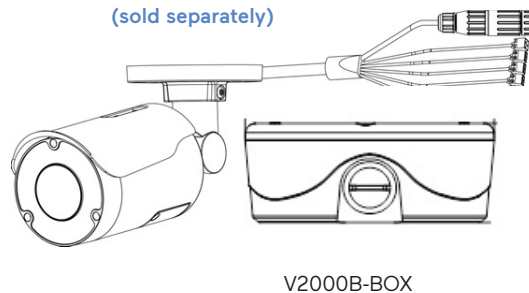
Mechanical	
Construction:	Housing: white aluminum. Sunshield: PC + ABS.
Camera Angle of Adjustment:	Adjusted using integral wall mount. Mechanical camera adjustment pan/tilt.
Mounting:	Surface mount, wall or ceiling
Dimensions:	3.5 in. (89 mm) (Diam) x 10.3 (261 mm) (L)
Weight:	4.0 lb (1.8 kg)
Electrical	
Input Power:	PoE+ IEEE 802.3at class 4; 12 VDC ( $\pm 10\%$ ); 24 VAC (+20%/-10%)
Current:	V2002B: 12 VDC: 1.56 A; 24 VAC: 0.78 A; PoE: 0.39 A; V2005B: 12 VDC: 1.67 A; 24 VAC: 0.83 A; PoE: 0.42 A; V2008B: 12 VDC: 1.64 A; 24 VAC: 0.82 A; PoE: 0.41 A
Power Consumption:	IR/Heaters On: V2002B: 18.72 W; V2005B: 20 W; V2008B: 19.68 W IR Off/Heaters On: V2002B: 11.52 W; V2005B: 14 W; V2008B: 12.48 W
Controls and Connectors	
Connectors:	Pigtail cable provided; optional backbox required for cabling. Power: 12 VDC/24 VAC: terminal block; PoE/ Network: RJ-45 CAT 5; Alarm Input/Output: terminal block. Audio Input/Output: terminal block. Reset button; Default button; Micro SD card slot for SDHC/SDXC card (128 G max; customer-supplied)
Environmental	
Operating Conditions:	Outdoor rated Temp: -40° to 140° F (-40° to 60° C) Humidity: up to 90%, non-condensing
Approvals:	UL, FCC Class A, CE, IP67, IK10 (including front glass); ONVIF Profile S/T/G/Q, RoHS
Country of Origin:	Taiwan
Warranty:	5 years

Ordering Information		
Resolution	Lens	Model Number
2 MP	3.1-10 mm motorized zoom and focus; autoiris	V2002B-W313MIR
5 MP	3.1-10 mm motorized zoom and focus; autoiris	V2005B-W313MIR
8 MP	3.6-10 mm motorized zoom and focus; autoiris	V2008B-W310MIR
Accessories		
Adapter Plate	Allows the V2000B to be mounted on a 4x4 electrical box	V2000B-PLATE 
Backbox	For ease of cabling; compatible with V-24CMB-4 corner mount and V-20B-A-4 pole mount adapter	V2000B-BOX 

## Dimension Drawing [in. (mm)]



Pigtail Cable: Use optional V2000B-BOX (sold separately)



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