



MIR Series



IR Series

Product at a Glance

- ▶ 2 MP and 4 MP models
- ▶ H.265/H.264 compression
- ▶ WDR
- ▶ IR LEDs (98 ft/30 m range)
- ▶ Fixed and motorized varifocal lens models
- ▶ 0.1 lux low light capabilities (color)
- ▶ Triple streaming
- ▶ Smart encoding
- ▶ Museum Search
- ▶ Video Content Analysis (VCA)
- ▶ Power-over-Ethernet (PoE), 12 VDC
- ▶ Surface mounting on wall or ceiling



Overview

Vicon's V810B HD IP Bullet Cameras are designed for performance in demanding security installations. There are 1080P (2 MP) and 4 MP models with a choice of fixed or motorized varifocal autoiris lens. The camera includes IR illuminators.

The V810B Series provides triple streaming and supports H.264/H.265 compression technology, significantly reducing file sizes and conserving valuable network bandwidth. The camera provides Smart Encoding, which monitors the amount of motion in a scene, resulting in overall savings in storage requirements and bandwidth.

The 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. The V810B can be mounted on a wall or ceiling using the integral wall mount that allows adjustment for the angle of view.

In order to adapt to constantly changing outdoor lighting conditions, the V810B series features an autoiris lens to adjust the lens opening to the changing light levels. The true day/night progressive scan camera also includes a removable IR cut filter for superior image quality in all lighting conditions. Wide Dynamic Range further improves picture quality by balancing the high contrast between bright and dark areas in scenes, providing one clear image.

SPECIFICATIONS

Model	V812B-IR/V812B-312MIR	V814B-IR/V814B-312MIR
Image Sensor:	1/2.9-inch progressive scan CMOS Sensor	1/3-inch progressive scan CMOS Sensor
Max Resolution:	1920 x 1080 (1080p)	2592 x 1520 (4 MP)
Image Settings:	Digital image effects: flip and mirror. Configurable brightness, contrast, saturation, chroma, sharpness. White balance. Electronic shutter speed. Day/night mode. Dynamic Noise Reduction (3D). Motion detection (16 programmable zones). Privacy masking (4 masks). Digital zoom. Event notification.	
Video Contents Analytics:	Tampering; Intelligent Video Motion Detection; Intrusion Detection; Museum Search	
Electronic Shutter Speed:	Auto (1 ~ 1/10,000 sec), manual	
Day/Night Performance:	True day/night (IR cut filter)	
Wide Dynamic Range	Digital WDR	
Minimum Illumination:	Color: 0.1 lux @f/2.1; BW: 0.0 lux @f/2.1	
IR Distance:	1 array of LEDs/24 SMD LEDs; 98 ft (30 m)	

Lenses

Focal Length:	3.6 mm (IR)/2.8-12 mm (MIR)
Max. Aperture:	f/2.1/f/1.4
Iris:	Fixed Iris/Autoiris
Zoom/Focus Adjust:	Fixed/Motorized zoom and focus
Field of View:	84°/95° - 35° (H)

Network Video Transmission

Network:	10Base-T, 100Base-TX, RJ-45	
Image Compression:	H.264; H.265; M-JPEG	
Resolution:	1920x1080 (1080P), 1440x1080, 1280x1024, 1280x720/960 (720P), 1024x768, 704x480/576 (D1), 640x480 (VGA), 400x240, 320x240 (QVGA)	2592x1520, 2340x1296, 1920x1080 (1080P), 1440x1080, 1280x1024, 1280x720/960 (720P), 1024x768, 704x480/576 (D1), 640x480 (VGA), 400x240, 320x240 (QVGA)
Protocol:	IPv4/IPv6, TCP/IP, HTTP, HTTPS, RTSP, RTCP, RTP, DHCP, FTP, UDP, uPnP, ARP, QoS, Zeroconf, Bonjour	
Frame Rate:	30/25 fps max.	20 fps max. in 4MP mode; 30/25 fps max. in 2MP mode
Streams:	Triple streams: H.264/H.265 - 2; M-JPEG - 1	
Users:	Up to 10 users	
Web Browser:	Internet Explorer®, Chrome®, Safari®, Firefox®	
Security:	Multi-user authority, IP address filtering, HTTPS encrypted video & data transmission, TLS, SSL, password protection	

Mechanical and Electrical

Construction:	Aluminum
Camera Angle of Adjustment:	Adjusted using integral wall mount. Mechanical camera adjustment pan 360°, tilt 90° and roll 360°.
Mounting:	Surface mount, wall or ceiling
Dimensions:	IR Series: 3.0 in. (77 mm) (Diam); 6.1 in. (155 mm) (L); MIR Series: 3.3 in. (84 mm) (Diam); 9.4 in. (239 mm) (L)
Weight:	IR Series: 0.66lb (0.30 kg); MIR Series: 1.5 lb (0.68 kg)

Data Sheet Number: V296-00-03
Vicon Data Sheet Number: 8009-7296-00-03

Dated: 10/2018
Specifications subject to change without notice.
Vicon and its logo are registered trademarks of Vicon Industries Inc.
Copyright © 2018 Vicon Industries Inc. All rights reserved.

Explorer is a registered trademark of Microsoft.
Chrome is a registered trademark of Google.
Firefox is a registered trademark of Mozilla Corp.
Safari is a registered trademark of Apple Inc.

V810B SERIES

SPECIFICATIONS

Electrical

Input Power:	PoE IEEE 802.3af, 12 VDC
Current (IR on):	V812B-IR: 87mA @PoE, 280mA @12 VDC; V812B-312MIR: 145mA @PoE, 520mA @12 VDC; V814B-IR: 106mA @PoE, 320mA @12 VDC; V814B-312IR: 145mA @PoE, 480mA @12 VDC
Power Consumption (IR on):	V812B-IR: 4.2W @PoE, 3.4W @12 VDC; V812B-312MIR: 7W @PoE, 6.2W @12 VDC; V814B-IR: 5.1W@PoE, 3.8W @12 VDC; V814B-312IR: 7W @ PoE, 5.8W @12 VDC

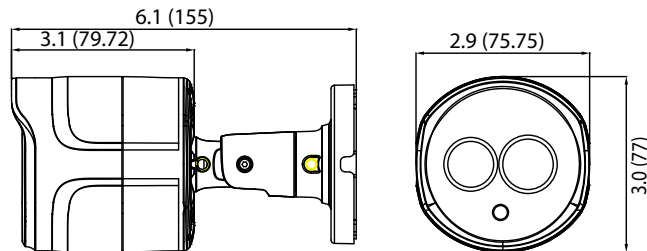
Controls and Connectors

Connectors:	Power: standard jack for adapter; PoE/Network: RJ-45 CAT 5
-------------	--

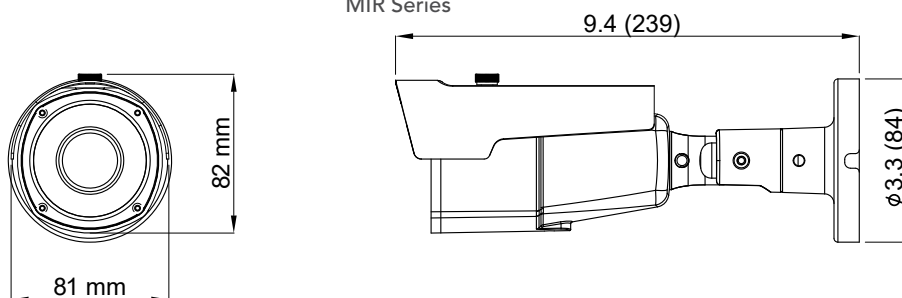
Environmental

Operating Conditions:	Outdoor Rated Temp: 14 to 122° F (-10 to 50° C) Humidity: up to 90%, non-condensing
Approvals:	FCC Class A, CE, IP66
Warranty:	3 years

IR Series



MIR Series



Dimension Drawings [in. (mm)]

Ordering Information

Resolution	Lens	Model Number
1080p resolution (2 MP)	3.6 mm fixed 2.8 - 12 mm motorized zoom and focus lens	V812B-IR V812B-312MIR
4 MP	3.6 mm fixed 2.8 - 12 mm motorized zoom and focus lens	V814B-IR V814B-312MIR
Mounting Accessories	Backbox for ease of cabling	VCAM-BOX
	Allows V810B-IR cameras to mount to a 4x4 electrical box	VCAM-ADAPT-2
	Allows V810B-MIR cameras to mount to a 4x4 electrical box	VCAM-ADAPT

Dated: 10/2018

Specifications subject to change without notice.

Vicon and its logo are registered trademarks of Vicon Industries Inc.

Copyright © 2018 Vicon Industries Inc. All rights reserved.