



Product at a Glance

- ▶ Heavy-duty stainless steel corner-mount housing designed specifically for prison cells
- ▶ 3 MP (2048x1536) resolution
- ▶ True day/night camera with 2.3 mm lens
- ▶ Digital WDR (Wide Dynamic Range)
- ▶ Privacy masking
- ▶ 0.00 lux low light capabilities @ 50 IRE (IR ON)
- ▶ Power-over-Ethernet (IEEE 802.3af), 24 VAC or 12 VDC
- ▶ Integrated IR LEDs (65 ft/20 m range)
- ▶ Integrated speaker and microphone
- ▶ Impact resistant IK10
- ▶ ONVIF interface provides interoperability with open platform solution



Overview

The Roughneck® V-CELL-HD-B integrates a 3 megapixel HD security camera and IR illuminators into a heavy-duty stainless steel housing created specifically for use in custodial suites and prison cells.

The camera is ONVIF compliant to promote compatibility with a wide range of video management systems. The camera can stream H.264, MPEG-4, or M-JPEG video; it also has a speaker and microphone.

The housing is designed to fit into a corner where two walls and a ceiling meet. The camera has an adjustable mount so that it can be tilted slightly up or down to give the exact view.

The housing consists of a two part stainless steel assembly, a fixed mounting frame and a removable front plate. The front plate is recessed and secured to the fixed frame with security screws. The front plate has two polycarbonate windows to protect the camera and IR LED illuminators.

The enclosure is water-resistant and designed to make the camera housing easy to clean. The two part construction makes for easy installation. Once installed, the mounting frame should be permanently sealed to the wall to make the housing ligature proof and water resistant (IP66). The camera and all electronics are mounted on the removable front plate, avoiding the need to remove the mounting frame for servicing. A secure access plate can be removed to give installers easy access to controls.

The 3 MP day/night camera's performance is enhanced with 36 IR LED illuminators that can be adjusted to provide complete coverage in all lighting conditions. The 2.3 mm lens enables the entire room to be viewed with no blind spots.

Model Number	Description
V-CELL-HD-B	3 MP HD corner-mount cell camera in a high-security housing. 850nm IR LED. Microphone and speaker. 2.3 mm lens. Privacy masking. Triple Stream. 24 VAC/12 VDC/PoE. H.264/MPEG-4/M-JPEG. ONVIF.

V-CELL-HD-B

SPECIFICATIONS

Model	V-CELL-HD-B
Image Sensor:	1/2.8-inch progressive scan RGB CMOS
Max Resolution:	3 MP
Image Settings:	Dynamic adjustable bit rate. Digital image effects: horizontal flip and mirror. Configurable brightness, contrast, saturation, hue, sharpness. Digital WDR. White balance. Automatic Gain Control. Electronic shutter speed. Day/night mode. BLC (Backlight Compensation). Dynamic Noise Reduction (2D). Motion detection (8). Privacy masking (8). Event notification.
Electronic Shutter Speed:	1/60 ~ 1/10,000; slow shutter control: 1/15, 1/8, 1/4
Day/Night Performance:	True day/night (IR cut filter)
Minimum Illumination:	0.0 lux, IR On
IR Distance:	65 ft (20 m) (with 36 IR LEDs); programmable intensity and On/Off

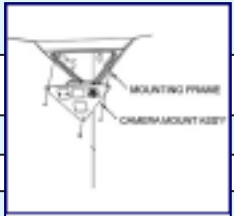
Lens

Focal Length:	2.3 mm
Max. Aperture:	f/2.0
Iris:	Fixed
Field of View:	124° (H); 92° (V)

Network Video Transmission

Network:	10Base-T, 100Base-TX, RJ-45
Image Compression:	H.264 (High, Main, Baseline PProfile); MPEG-4; M-JPEG
Resolution:	2048x1536 (3 MP), 1920x1080 (Full HD 1080P), 1280x1024 (SXVGA), 1280x720 (HD 720P), 704x480/576 (D1), 640x480 (VGA), 352x240/288 (CIF), 320x240 (QVGA)
Protocol:	IPv4/IPv6, TCP/IP, HTTP, HTTPS, RTSP, RTCP, RTP, SMTP, DHCP, NTP, FTP, DDNS, UDP, SNMP, uPnP, ARP, QoS, Zeroconf, Bonjour, Manual
Frame Rate:	Up to 30 fps in all resolutions
Streams:	Triple streaming
Users:	Live viewing for up to 10 clients
Audio:	2-way streaming; G.711 ADPCM a-law/u-law; 8 kHz; 64 kbps
Web Browser:	Internet Explorer®, Safari®, Firefox®, Google Chrome®, Opera®
Security:	IP address filtering, HTTPS encrypted data transmission, SSL, password protection

Mechanical and Electrical

Construction:	Enclosure: stainless steel; mounting frame 14 gauge; camera mount assembly: 14 gauge Windows: polycarbonate; IR, 5 mm thick; camera, 6 mm thick	
Camera Angle of Adjustment:	Integral camera/lens module; adjustable tilt	
Mounting:	Designed to be mounted into a 90° corner. Front cover secured with security screws.	
Dimensions:	15 in. (380 mm) x 12.6 in. (320 mm)	
Weight:	3.5 lb (1.6 kg)	
Shipping Dimensions:	3.375 in. (86 mm) H x 17.75 in. (451 mm) W x 13.5 in. (343 mm) D	
Shipping Weight:	1.2 lb (0.5 kg)	
Input Power:	12 VDC, 24 VAC, PoE IEEE 802.3af Class 0	
Current (IR on):	24 VAC/12 VDC: 500 mA; PoE (48 VDC): 125 mA, max.	
Power Consumption (IR on):	24 VAC/12 VDC: 6 W; PoE: 6 W, max.	
Connectors:	Ethernet/PoE: RJ-45; Power: terminal block; Alarm In/Out: screw terminal; Local recording: Micro SD card slot (customer-supplied card)	

Environmental

Operating Conditions:	Temp: 32 to 140° F (0 to 60° C). Humidity: up to 90%, non-condensing
Approvals:	FCC Class A; CE; UL; CUL (with back cover). IP66. IK10.
Warranty:	3 years

Data Sheet Number: V247-10-06

Dated: 3/2019 Vicon Data Sheet Number: 8009-7247-10-06

Specifications subject to change without notice.

Vicon, Roughneck and their logos are registered trademarks of Vicon Industries Inc.

Copyright © 2019 Vicon Industries Inc. All rights reserved.

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



www.vicon-security.com