

ROUGHNECK™

V-CELL/V-CELL-IP High-Security Corner-Mount Cameras



- Heavy-duty stainless steel corner-mount housing designed specifically for prison cells
- Built-in IR illuminators for continuous coverage
- High-resolution day/night camera
- 2.5 mm wide angle lens covers the entire room
- Integrated microphone and speaker (IP)
- H.264, MPEG-4 and M-JPEG compression
- 24 VAC or 12 VDC; IP version with PoE
- Remotely activated privacy masks
- ONVIF certified
- IP66 rated

Overview

The Roughneck® V-CELL integrates a high-resolution security camera and IR Illuminators into a heavy-duty stainless steel housing created specifically for use in custodial suites and prison cells. The V-CELL-IP version is an ONVIF compliant network camera that promotes compatibility with a wide range of video management systems. The camera can stream H.264, MPEG-4, or M-JPEG video at D1 resolution; it also has a speaker and microphone.

Construction and Installation

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 and to attach an analog output for use with portable monitors; this is available on both analog and IP models of the camera (NTSC and PAL versions offered).

Camera and Optics

The 600 TVL 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 2.5 mm lens enables the entire room to be viewed with no blind spots.

The analog version can be programmed thru a remote control that accesses an OSD menu system. The network version of the camera provides a web interface to all features.

Network Video Transmission

Compression:	MPEG-4, M-JPEG or H.264.
Video Streams:	10 concurrent streams maximum.
Video Resolution:	D1, VGA, QVGA, CIF.
Frame Rate:	30 fps at H.264/M-JPEG VGA (25 fps, PAL).
Video Bandwidth:	10/100 Mbps.
Protocols:	IPv4/IPv6, Manual, TCP/IP, HTTP, HTTPS, RTSP/RTP/RTCP, SMTP, DHCP, NTP, DDNS, UDP, FTP.

Analog Video Transmission

Maximum Transmission Distance:	Up to 3000 ft (915 m) at 12 AWG; varies according to wire size.
Video Output Impedance:	CVBS 1.0V p-p, 75 ohm.

Camera and Optics

Image Sensor:	1/3" Sony Super HAD II CCD. 2:1 interlace scanning system.
TV System:	NTSC and PAL versions (analog and IP).
Camera Type:	Day/Night.
Signal to Noise Ratio:	50 dB (AGC off).
Horizontal Resolution:	640 TVL (B&W); 600 TVL (color).
Sensitivity:	Day: 0.01 fc (0.1 lux); Night: 0.003 fc (0.03 lux) IR Off, 0.0 fc (0.0 lux) IR On @50 IRE, f/1.2.
Synchronization:	Internal/Line Lock selectable.
IR Illumination:	36 IR illuminators (940 nm with low visibility); light up to 66 ft (20 m); intensity adjustable.
Lens:	Focal Length: 2.5 mm. Horizontal Field-of-View: 104°. Vertical Field-of-View: 80°.
Camera/Lens Settings:	OSD menu provides settings for camera title, BLC, AGC, DNR, HDR, sense up, white balance, day/night, digital zoom, digital image stabilization, sharpness, digital image effects, IR brightness (IP version), motion detection and privacy masks. Use the V-CELL-REM joystick or web browser interface (IP version) for programming.

Mechanical

Application:	Indoor, tamperproof. Speaker/microphone holes less than 2 mm access.
Construction:	Enclosure: stainless steel. Windows: polycarbonate; IR, 5 mm thick; camera, 6 mm thick.
Finish:	Brushed satin.
Mounting:	Designed to be mounted into a 90° corner. Front cover secured with security screws.
Camera Mounting:	Integral camera/lens module; adjustable tilt.
Dimensions:	15 in. (380 mm) x 12.6 in. (320 mm).
Weight:	3.5 lb (1.6 kg).

Data Sheet Number: V247

Dated: 10/2012

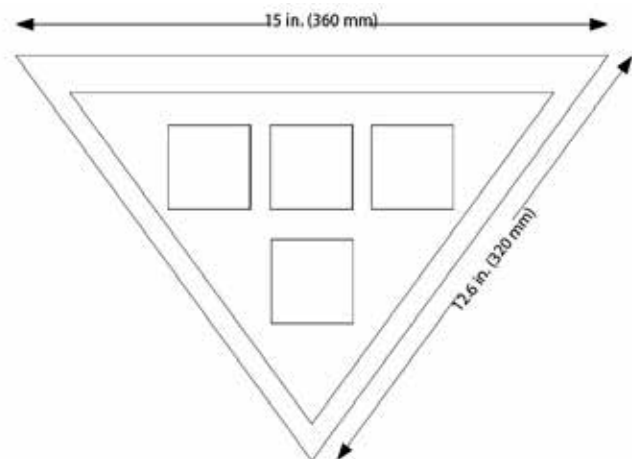
Vicon Data Sheet Number: 8009-7247-00-05

Specifications subject to change without notice.

Input Power:	24 VAC or 12 VDC; PoE (IEEE 802.3af) on IP version.
Maximum Current @ 24 VAC:	Analog: 0.23 A; IP: 0.35 A.
Power Consumption:	Analog: 5.5 W; IP: 8.5 W.
Indicators, Connectors and Controls:	Status LED: Indicates video/audio recording; can be turned On or Off. Power: Red LED. Network: Green LED. 24 VAC/12 VDC Power: screw terminal. Video (analog): BNC. Ethernet/PoE (IP): RJ-45. Alarm In/Out: screw terminal. Audio In/Out (mic/spkr; IP): screw terminal (ViconNet does not support audio out). Portable Monitor/Remote Control: DIN. IR Brightness: 3-position switch (analog). Local Storage: Micro SD card slot.

Environmental

Operating Temperature Range:	32 to 122° F (0 to 50° C).
Operating Humidity Range:	0 to 90% relative, non-condensing.
Approvals:	FCC Class A; CE; UL; CUL (with back cover). IP66*
Warranty:	3 years.



*Customer's responsibility to seal the edges properly.

Accessories

Description	Model Number
Remote control	V-CELL-REM
Cover plate for speaker	V-CELL-PLATE

Vicon, ViconNet, Roughneck and their logos are registered trademarks of Vicon Industries Inc. Copyright © 2012 Vicon Industries Inc. All rights reserved.