



ROUGHNECK™

V894 Series High-Security Cameras

- **Corner or wall mounted models**
- **High-resolution color or day/night camera**
- **24 VAC**
- **Line lock**
- **Varifocal lenses with autoiris**
- **Easy installation**

The V894CSH and V894WSH are integrated housing/camera/lens systems. The V894CSH series is a corner-mounted unit; the V894WSH series is wall-mounted. Both units are constructed of brushed stainless steel with a polycarbonate plastic window.

The V894CSH series is designed to fit into a corner where two walls and a ceiling meet. It may be fastened to either or both walls or to the walls and the ceiling. The V894WSH series is designed for wall mounting. Cable access is provided on one side. The camera may be rotated 360° and be tilted slightly to give a higher or lower angle of view.

The housing consists of two main assemblies, the outer or front cover and the back corner or wall mount assembly. The front of the housing is secured to the back of the housing with Torx tamperproof screws. A special tool is supplied in the accessory pack for removing and replacing these screws.

Each unit is equipped with a high-resolution color camera with ExView™ technology or a day/night camera, both with an isolated power input, and an autoiris varifocal lens. The varifocal lens allows for lens adjustment capability. Refer to Table 1 for a list of model descriptions.

The Roughneck series complies with the requirements for an FCC Class A rating.

Vicon recommends the use of uninterruptible power supply systems (UPS) to prevent voltage fluctuations that can affect operation, cause video loss and damage to the equipment.

Model	Product Code	Description
Corner-Mounted		
V894CSH-3312/ V894CSH-3312-C	8763-04/ 8763-03	Indoor; 1/3-in. high-resolution ExView color camera and 3.3-12 mm autoiris varifocal lens; 24 VAC; isolated power input; brushed stainless steel finish. NTSC/PAL.
V894CSH-3312DN/ V894CSH-3312DN-C	8764-04/ 8764-03	Indoor; 1/4-in. high-resolution day/night color camera and 3.3-12 mm autoiris varifocal lens; 24 VAC; isolated power input; brushed stainless steel finish. NTSC/PAL.
Wall-Mounted		
V894WSH-3312/ V894WSH-3312-C	8765-04/ 8765-03	Indoor; 1/3-in. high-resolution ExView color camera and 3.3-12 mm autoiris varifocal lens; 24 VAC; isolated power input; brushed stainless steel finish. NTSC/PAL.
V894WSH-3312DN/ V894WSH-3312DN-C	8766-04/ 8766-03	Indoor; 1/4-in. high-resolution day/night color camera and 3.3-12 mm autoiris lens; 24 VAC; isolated power input; heater; brushed stainless steel finish. NTSC/PAL.
Power Supplies		
VC24PS-1/ VC24PS-1-230	4297/4297-01	Single-channel, indoor, 120/230 input, 24 VAC output, 10 W
V248-3.5PS	7668	Eight-channel, indoor, 120 VAC input, 24 VAC output, 0.4 A/channel (3.5 A total)
V2416-8PS	7669	Sixteen-channel, indoor, 120 VAC input, 24 VAC, 0.5 A/channel (8 A(total)
V2448-175PS	6410-20	Four-channel, indoor, 120 VAC input, 24/28 VAC output (jumper selectable), 7/6.25 amps (total)

Caution: Note that on multi-channel units, the amperage stated is the total for all channels. To assure sufficient current to individual cameras, connect only the number of cameras that use less than the maximum supply current.

Table 1: Models, Products Codes and Descriptions

Vicon Product Facts		Model No: V894 Roughneck Series	Product Code: Refer to Table 1	SEC: 3	SPEC: 935-21	REV: 706
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ELECTRICAL

Input Voltage: 24 VAC \pm 20%, isolated.

Current: 200 mA.

Power Consumption: 4.8 W.

Heat Equivalent: 0.27 btu/min (0.07 kg-cal/min).
 Note: These figures represent the conversion of 100% of the electrical energy to heat. Actual percentage of the heat generated will be less and will vary from product to product. These figures are provided as an aid in determining the extent of cooling required for an installation.

Maximum Power Distance:

Voltage	Wire Gauge ft (m)				
	20	18	16	14	12
24 VAC	1200 (366)	1875 (572)	3000 (914)	4800 (1463)	6000 (1829)

Connectors: Power: 3-pin terminal block.
 Video: BNC.

Fuse: Resettable.

Radio Frequency Emission Rating: FCC Class A.

OPERATIONAL

Tilt and Horizontal

Adjustment: 3-axis adjustment: tilt, vertical height of the camera/lens and roll (lens may be rotated on its axis 360°).

OPTICAL

Light Loss through

Window: Negligible.

Camera/Lens

Specification: Refer to Table 2.

MECHANICAL

Application: Indoor.

Housing Mounting: V894CSH: designed to mount into 90° corner.
 V894WSH: designed to mount to wall or ceiling.

Camera Mounting: Camera/lens module built in.

Dimensions: Height (H): 4.5 in. (114 mm).
 Width (W): 4.0 in. (102 mm).
 Depth (D): V894CSH: 3.5 in. (89 mm). V894WSH: 4.75 in. (121 mm).

Weight: 2.75 lb (1.2 kg).

Construction: Cover: stainless steel.
 Internal Brackets: zinc-plated steel.
 Window: polycarbonate plastic.

Finish: Satin brushed.

Closure: Cover secured in place by tamperproof screws.

Shipping

Dimensions: Height: 6.0 in. (152 mm).
 Width: 6.0 in. (152 mm).
 Depth: 7.0 in. (178 mm).

Shipping Weight: Approximately 3.5 lb (1.6 kg).

Shipping Volume: 0.15 ft³ (0.004 m³).

ENVIRONMENTAL

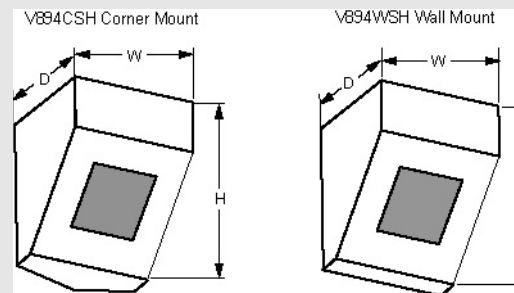
Operating

Temperature Range: 32 to 122° F (0 to 50° C).

Operating Humidity Range: 0 to 90% relative, noncondensing.

Storage Temperature Range: -40 to 150° F (-40 to 65° C) maximum.

Storage Humidity Range: 0 to 90% relative, noncondensing



Technical Information (cont'd)

Technical Characteristic		
Camera	V894CSH-3312(-C)/ V894WSH-3312(-C)	V894CSH-3312DN(-C)/ V894WSH-3312DN(-C)
Image Sensor Format	1/3 inch	1/4 inch
Image Sensor Type	ExView CCD	CCD
TV System	Standard 2:1 interlace; NTSC/PAL	Standard 2:1 interlace; NTSC/PAL
Monochrome/Color	Color	Color (Day/Night)
Horizontal Resolution	480 lines	Mono: 580 Color: 480 lines
Sensitivity	0.07 fc (0.8 lux) at 40 IRE (f/1.6)	Day: 0.07 fc (0.8 lux) Night: 0.009 fc (0.1 lux) at 40 IRE (f/1.4)
Signal-to-Noise Ratio	> 48 dB (AGC off)	> 48 dB (AGC off)
Sync System	Internal/Line Lock, DIP switch selectable	Internal/Line Lock, DIP switch selectable
Video Output	Composite video, 1.0 V p-p	Composite video, 1.0 V p-p
BLC	ON/OFF, DIP switch selectable	ON/OFF, DIP switch selectable
AGC	ON/OFF, DIP switch selectable	ON/OFF, DIP switch selectable
ELC/ALC	DIP switch selectable	DIP switch selectable
Automatic Electronic Linear Shutter	NTSC: 1/60-1/100,000 sec PAL: 1/50-1/100,000 sec	NTSC: 1/60-1/100,000 sec PAL: 1/50-1/100,000 sec
Lens		
Focal Length	3.3 - 12 mm varifocal	3.3 - 12 mm varifocal
Horizontal/Vertical Field of View	83.9° – 23.91°/61.9° – 17.93°	61.9° – 17.93°/44.5° – 13.6°

Table 2: Camera/Lens Specifications



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