



ROUGHNECK™

V910 Series Impact-Resistant Camera Domes

- Indoor/Outdoor
- High-resolution color or day/night camera
- 24 VAC
- Line lock and BLC features
- Varifocal or fixed autoiris lens
- Twisted-pair (UTP) video transmission versions available
- Easy installation

The Roughneck Series of Impact-Resistant Cameras offers high-security cameras in a compact domed housing. They are available for outdoor applications. The units are of die-cast aluminum construction and have high-impact polycarbonate

plastic domes. These camera packages are designed to withstand the harshest conditions and destructive environments of correctional facilities, warehouses and loading docks. The units include O-ring seals and a heater to allow operation in low temperature and in all weather conditions.

Tamper-resistant screws make the unit resistant to vandalism. The Roughneck V910 series has an integral camera with an isolated power input, high-resolution color or day/night, with a choice of lenses. Both camera types accept 24 VAC, provide BLC ON/OFF (DIP switch selectable) and feature line lock capability. A model is available that offers twisted pair video connection. A UTP receiver is required for twisted pair configurations. Refer to Table 1.

The camera mount offers adjustment to any view required. The camera position is adjustable horizontally and vertically (there is full 170° camera mounting adjustment). Roughneck's mounting base screws directly to walls and ceilings, reducing installation time and cost. The unit features a standard threaded conduit fitting for cable protection.

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.

ASSOCIATED EQUIPMENT AND ACCESSORIES

Model V910-PH Pendant Housing, Product Code 8476: Used to allow the V910 Camera Dome to be installed in a pendant configuration. Requires an appropriate mount that can support the weight of the V910 and the V910-PH (approximately 5 lb, 2.3 kg) and adapts to a 1-inch NPT pipe thread. Can be used outdoors.

Model	Product Code	Description
V910-W3312/ V910-W3312-C	8759-04/ 8759-03	Indoor/Outdoor; 1/3-in. high-resolution ExView™ color camera and 3.3-12 mm autoiris varifocal lens; 24 VAC; isolated power input; heater; coaxial cable video; smoked lower dome. NTSC/PAL.
V910-W3312T/ V910-W3312T-C	8759-44/ 8759-43	Indoor/Outdoor; 1/3-in. high-resolution ExView color camera and 3.3-12 mm autoiris varifocal lens; 24 VAC; isolated power input; heater; twisted pair video; smoked lower dome. NTSC/PAL.
V910-W3312DN/ V910-W3312DN-C	8760-04/ 8760-03	Indoor/Outdoor; 1/4-in. high-resolution day/night color camera and 3.3-12 mm autoiris varifocal lens; 24 VAC; isolated power input; heater; coaxial cable video; smoked lower dome. NTSC/PAL.
V910FF-CA/  V910FF-CA-C	8456-04/ 8456-03	Indoor/Outdoor; 1/3-in. high-resolution ExView color camera and 2.8 mm autoiris lens; 24 VAC; isolated power input; heater; coaxial cable video; smoked lower dome. NTSC/PAL.
UTP Receivers		
V212-NVT	7631	Receiver, converts UTP video to composite up to 500 ft from transmitter
V213-NVT	6518	Receiver, converts UTP video to composite up to 1000 ft from transmitter
V652R-NVT	7453	Receiver, converts UTP video to composite up to 3000 ft from transmitter (does not support Vicoax systems)
V1613-NVT	7648	16-Channel Hub Receiver, converts UTP video to composite up to 1000 ft from each transmitter
V1662-NVT	6519	16-Channel Hub Receiver, converts UTP video to composite up to 3000 ft from each transmitter (does not support Vicoax systems)
Power Supplies		
S24WPS-1	7028-10	Single-channel, indoor/outdoor, 120 VAC input, 24 VAC output, 2 A
S24PS-230	7027-01	Single-channel, indoor, 230 VAC input, 24 VAC output, 2.5 A
V2448-175PS	6410-20	Four-channel, indoor, 120 VAC input, 24/28 VAC output (jumper selectable), 7/6.25 amps (total)
V248-300PS	6422-10	Eight-channel, indoor, 120 VAC input, 24/28 VAC output, 12.5/10 A (total)
V2416-600PS	8437	Sixteen-channel, indoor, 120 VAC input, 24/28 VAC, 25/20 A (total)

Caution: Be aware that some of these power supplies are for indoor use only. Also 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: V910 Roughneck Series	Product Code: Refer to Table 1	SEC: 3	SPEC: V137	REV: 706
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ELECTRICAL

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

Current: 0.5 A nominal;
0.6 A max., including heater.

Power Consumption*: 12.0 W nominal;
17.4 W max., including heater.

Maximum Power Distance:

Voltage	Wire Gauge ft (m)				
	20	18	16	14	12
24 VAC	500 (152)	781 (238)	1250 (381)	2000 (610)	3125 (953)

Heat Equivalent: 0.7 btu/min (0.17 kg-cal/min) nominal;
1.0 btu/min (0.25 kg-cal/min) max., including heater.
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.

Connectors: Power: 2-pin terminal block.
Video: BNC on pendant cable or UTP terminal.
Heater: 2-pin connector.

Video Output Impedance: 75 ohms.

Scanning System: NTSC: 525 lines, 60 fields/sec.
PAL: 625 lines, 50 fields/sec.

Radio Frequency Emission Rating: FCC Class A.

Camera/Lens Specification: Refer to Table 2.

OPERATIONAL

Tilt and Horizontal

Adjustment: 3-axis adjustment: pan, tilt and roll.

**Note:*

Nominal power and current levels are calculated @ 24.0 VAC input line voltage.

Maximum power and current levels are calculated @ 29.0 VAC input line voltage.

MECHANICAL

Application: Indoor/Outdoor.

Mounting: Wall or ceiling. Pendant option.

Dimensions: Height (H): 5.1 in. (130 mm).
Total Diameter (D1): 6.1 in. (155 mm).
Dome Diameter (D2): 4.7 in. (119 mm).

Weight: Approximately 4 lb (1.8 kg).

Construction: Base/Cover: die-cast aluminum.
Dome: polycarbonate plastic.

Finish: Base/Cover: painted light beige.
Dome: smoked.

Shipping Dimensions: Height: 9.25 in. (235 mm).
Width: 9.25 in. (235 mm).
Depth: 10.375 in. (264 mm).

Shipping Weight: Approximately 5 lb (2.3 kg).

Shipping Volume: 0.5 ft³ (0.014 m³).

ENVIRONMENTAL

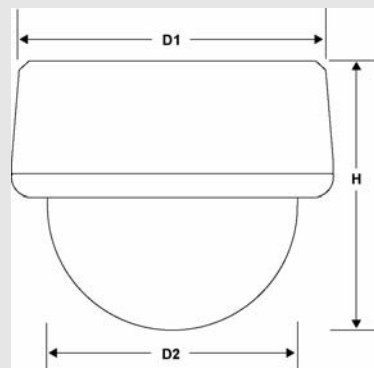
Operating Temperature Range: With Heater: -22 to 140° F (-30 to 60° C).

Operating Humidity Range: Up to 95% relative, noncondensing.

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

Storage Humidity Range: Up to 90% relative, noncondensing.

Wind Load: Heavy rain or snow driven by winds up to 80 mph.



Model	V910-W3312/-C/ V910-W3312T/-C	V910-W3312DN/ V910-W3312DN-C	V910FF-CA/ V910FF-CA-C
Camera			
Image Device	1/3-inch ExView CCD 2:1 interface, NTSC/PAL	1/4-inch CCD 2:1 interface, NTSC/PAL	1/3-inch ExView CCD 2:1 interface, NTSC/PAL
Color/Monochrome	Color	Color	Color
Resolution (TV lines)	480	Color: 480 Mono: 580	480
Sensitivity fc (lux)	0.07 (0.8) at 40 IRE, f/1.6	Day: 0.07 (0.8) Night: 0.009 (0.1) at 40 IRE, f/1.4	0.056 (0.6) at 40 IRE, f/1.4
Synchronization	Internal/Line lock DIP switch selectable	Internal/Line lock DIP switch selectable	Internal/Line lock DIP switch selectable
Electronic Iris (sec)	NTSC: 1/60-1/100,000 PAL: 1/50-1/100,000	NTSC: 1/60-1/100,000 PAL: 1/50-1/100,000	NTSC: 1/60-1/100,000 PAL: 1/50-1/100,000
BLC	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable
AGC	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable
Signal-to-Noise Ratio	>48 dB (AGC off)	>48 dB (AGC off)	>48 dB (AGC off)
Lens			
Focal Length (mm)	3.3-12 varifocal with autoiris	3.3-12 varifocal with autoiris	2.8 with autoiris
Field-of View	Horiz: 83.9°-23.91° Vert: 61.9°-17.93°	Horiz: 83.9°-23.91° Vert: 61.9°-17.93°	Horizontal: 72.4° Vertical: 96.8°

Table 2: Camera/Lens Specifications



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