

PRODUCT SPECIFICATION

NOTES SUPERSEDES PRODUCT SPECIFICATION 413-292	SPEC NO. 413	REV. 194	SEC. 6
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MODELS: V4.5H-12-1 AND V4.5H-15-1

PRODUCT CODES: 4295 AND 4296

DESCRIPTION: ENVIRONMENTAL MICROHOUSINGS

- Weatherproof
- Easy installation and serviceability
- Accommodates a variety of camera sizes
- UL listed

The V4.5H Series of Environmental Microhousings combines durability with attractive styling to provide protection from weather conditions for miniature charge-coupled device (CCD) cameras. Constructed of ribbed extruded aluminum with a light gray powder-coated finish, the V4.5H is both functional and aesthetic. It is designed for indoor or outdoor use.

Available in 12-inch (30 cm) and 15-inch (38 cm) lengths, the V4.5H features flexibility and easy installation. The bolt-hole pattern on the unit's base allows attachment to a variety of remote positioning devices and wall mounts. (The V1600WM Wall Mount with V1600AH Adjustable Head is recommended for fixed mounting.) End caps are simply detached by removing two screws. Because the camera mounting plate is secured to the rear end cap, access to the camera and lens is instant and unhampered. A slot in the mounting plate enables adjustable front-to-back camera positioning. A vent is located on the base of the front end cap, thereby allowing for circulation while keeping out the elements. See Figure 1 for dimensions.



V4.5H ENVIRONMENTAL HOUSING

The V4.5H accommodates camera and lens combinations up to 8.75-inches (22.2 cm) long for Model V4.5H-12-1, and up to 11.75-inches (29.8 cm) long for Model V4.5H-15-1. Compact zoom lenses compatible with the V4.5H are listed in Table 1. The housings comply with UL standard 1409.

TABLE 1
MOTORIZED ZOOM LENSES FOR THE V4.5H

Model Number†	Focal Length (mm)	Zoom Range	Lens Speed (f)
2/3-Inch Format V12.5-75-4 (M, MS, AC)	12.5-75	6X	1.2
1/2-Inch Format V8.5-51 (M, MS, AC)	8.5-51	6X	1.2
1/3-Inch Format V6-36 (AC)	6-36	6X	1.2
V6-60 (AC)	6-60	10X	1.2

†M-Motorized zoom, focus, and iris. MS-Motorized zoom, focus, and iris, with a neutral density spot filter. AC-Motorized zoom and focus with autoiris and a neutral density spot filter.

CONTRACTORS' SPECIFICATIONS

8.75-INCH* INDOOR/OUTDOOR HOUSING

The housing shall be a weatherproof enclosure for small cameras. Construction shall be of aluminum for protection from radio frequency (RF) interference. Maximum camera/lens dimensions shall be: length, 8.75 in. (22.2 cm); width, 4.25 in. (10.8 cm); height, 3.0 in. (7.6 cm). All wiring shall be routed into the rear of the housing through compression fittings. The following options shall be available: thermostatically-controlled heater; sunshield; rainshield. The housing shall be Vicon's model V4.5H-12-1 or equivalent.

11.75-INCH* INDOOR/OUTDOOR HOUSING

The housing shall be a weatherproof enclosure for small cameras with zoom lenses. Construction shall be of aluminum for protection from radio frequency (RF) interference. Maximum camera/lens dimensions shall be: length, 11.75 in. (29.8 cm); width, 4.25 in. (10.8 cm); height, 3.0 in. (7.6 cm). All wiring shall be routed into the rear of the housing through compression fittings. The following options shall be available: thermostatically-controlled heater; sunshield; rainshield. The housing shall be Vicon's model V4.5H-15-1 or equivalent.

*Maximum length of camera/lens combination.

TECHNICAL INFORMATION

ELECTRICAL

Accessory Power: See Table 2.

Weight: V4.5H-12-1: 2.9 lb (1.3 kg).
V4.5H-15-1: 3.5 lb (1.6 kg).

OPERATIONAL

Horizontal Adjustment: Slot in mounting plate allows front-to-back camera positioning.

Construction: Body: ribbed extruded aluminum.
Base: ribbed extruded aluminum.
End caps: molded Noryl**.
Camera platform: 0.06-in. thick (0.15 cm) aluminum.
Window: 0.19-in. (0.48 cm) plate glass.

OPTICAL

Light Loss through Window: 0.4 f-stop.

Clear Window Area: 2.6 in. (6.6 cm) x 3.9 in. (9.9 cm).

Finish: Clear anodized aluminum body, black end caps.

MECHANICAL

External Dimensions: See Figure 1.
Height: 4.5 in. (11 cm).
Width: 5.5 in. (14 cm).
Length-V4.5H-12-1: 13.0 in. (33.0 cm)*.
Length-V4.5H-15-1: 16.0 in. (40.6 cm)*.
*Includes connectors.

Cable Access: Three compression fitting nuts on rear end cap.

Housing Mounting: See Figure 1.
Bolt hole pattern on housing base allows a variety of mounting possibilities using 1/4-20 mounting screws and lockwashers.

Maximum Camera/Lens Dimensions:
V4.5H-12-1
Length: 8.75 in. (22.2 cm).
Width: 4.25 in. (10.8 cm).
Height: 3.0 (7.6 cm).

Camera Mounting: Slot allows adjustable camera positioning with 1/4-20 screw.

Shipping Data: See Table 3.

Safety Rating: UL Standard 1409.

V4.5H-15-1
Length: 11.75 in. (29.8 cm).
Width: 4.25 in. (10.8 cm).
Height: 3.0 (7.6 cm).

ENVIRONMENTAL

Ambient Temperature Range: Maintains motorized zoom lens operation at temperatures down to -40° F (-40°C) with heater accessory.

**TABLE 2
HOUSING ACCESSORIES SPECIFICATIONS**

Model Number	Input Voltage (V)	Current (A)	Power Consumption (Max) (W)	Heat Equivalent† (btu/min (cal/min))	Weight (lb (kg))
V4.5H-HR	120 230	0.42 0.22	50	2.8 (0.72)	0.3 (0.14)
V4.5H-HR-24	24	2.1	50	2.8 (0.72)	0.3 (0.14)

†Note: The heat equivalent represents the conversion of 100% of the electrical energy to heat. The actual percentage of 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.

**TABLE 3
SHIPPING DATA**

Model Number	Shipping Weight		Shipping Dimensions						Shipping Volume	
			Height		Width		Length			
	lb	kg	in.	cm	in.	cm	in.	cm	cu ft	cu m
V4.5H-12-1	3.8	1.7	5.0	12.7	7.25	18.4	18.5	47.0	0.4	0.01
V4.5H-15-1	4.2	1.9	5.0	12.7	7.25	18.4	18.5	47.0	0.4	0.01
V4.5H-HR	0.4	0.2	1.25	3.2	6.6	16.8	4.05	10.2	0.02	0.0006
V4.5H-12-S	1.6	0.7	3.6	9.1	6.6	17	18.0	45.7	0.3	0.008
V4.5H-15-S	1.9	0.9	3.6	9.1	6.6	17	18.0	45.7	0.3	0.008
V4.5H-R	0.3	0.1	3.9	9.9	5.1	13	4.75	12.1	0.06	0.002

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ASSOCIATED EQUIPMENT AND ACCESSORIES

Model V4.5H-HR Heater Assembly: Resistor-type heater and a window heater provided with thermostat. Operates at 24 VAC, 120 VAC or 230 VAC. Provides 50 watts of heating power with preset thermostat that goes on when the temperature drops to 68° F (20° C) and goes off when it reaches 80° F (26.7° C). V4.5H-HR product code 4294. V4.5H-HR-24 product code 4294-02. V4.5H-HR-230 product code 4294-01.

Model V4.5H-12-S and V4.5H-15-S Sunshields: Protects against direct solar radiation. For use with V4.5H-12-1 and V4.5H-15-1 Environmental Micro housings, respectively. Weigh 1.1 lb (0.5 kg) and 1.4 lb (0.6 kg). Product codes 1740 and 1741.

Model V4.5H-R Rainshield: Shields the viewing area from rain. For use with both the models. Weighs 0.09 lb (0.04 kg). Product code 1742.

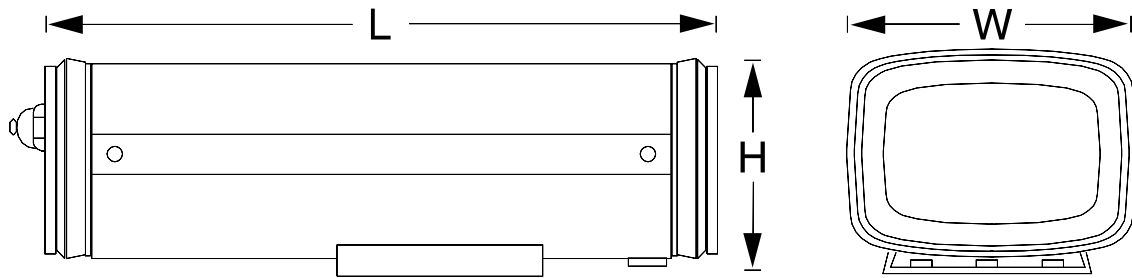


Figure 1
V4.5H Dimensions