



### VC-700W Impact-Resistant Fixed-Position Outdoor Camera Dome

- High-resolution color camera (550 TVL)
- 3.3 – 12 mm or 9-22 varifocal autoiris lens
- Adjustable camera position
- Designed for outdoor use
- Modes available for Day/Night, and with IR illumination or Wide Dynamic Range
- Adjustable camera position
- Surface mount or in-ceiling installations
- 12 VDC/24 VAC operation
- Dome protected with special security screws
- Cost-effective design

The VC-700W Series of Outdoor Fixed-Position Camera Domes offers a compact domed housing incorporating a fixed camera and lens combination. They are configured for outdoor installation. The domes include a camera with an isolated power input and a varifocal autoiris lens. A lower dome is included (smoked or clear, model dependant). Model variations include super-high-resolution color, a day/night model, a model with IR illumination and a model with Wide Dynamic Range; models are available in NTSC and PAL formats. The VC-700WIR features IR illumination (18 LEDs) for use in no-light environments that allows the camera to light objects up to 66 ft (20 m). Refer to Table 1 for complete model descriptions.

The camera position is adjustable, allowing for adjustment of pan (360°), tilt (90° from vertical) and rotation about its axis (roll/azimuth), for any angle of view required. The lens zoom and focus can be easily adjusted. The camera accepts 12 VDC/24 VAC input; BLC, AGC, and Iris settings are DIP switch selectable.

The VC-700W Series of Fixed-Position Camera Domes meets FCC requirements for a Class A device.

Model	Product Code	Description
VC-700WS/C	9161-54/53	Outdoor; 1/3-in. high-resolution color camera and 3.3-12 mm autoiris varifocal lens; 550 TVL resolution, 12 VDC/24 VAC; isolated power input; smoked lower dome; NTSC/PAL.
VC-700WDN/C	9161-04/03	Outdoor; 1/3-in. day/night color camera and 3.3-12 mm autoiris varifocal lens; 550 TVL resolution, 12 VDC/24 VAC; isolated power input; clear lower dome; NTSC/PAL.
VC-700WIR/C	9137-44/43	Outdoor; 1/3-in. high-resolution color camera with IR illuminators and 3.3-12 mm autoiris varifocal lens; 550 TVL resolution, 12 VDC/24 VAC; isolated power input; clear lower dome; NTSC/PAL.
VC-700WDR/C	9161-64/63	Outdoor; 1/3-in. Pixim color camera with WDR and 3.3-12 mm autoiris varifocal lens; 540 TVL resolution, 12 VDC/24 VAC; isolated power input; clear lower dome; NTSC/PAL.
VC-700DWS/C	9660-54/53	Outdoor; 1/3-in. high-resolution color camera and 9-22 mm autoiris varifocal lens; 550 TVL resolution, 12 VDC/24 VAC; isolated power input; smoked lower dome; NTSC/PAL.
VC-700DW-DN/C	9660-04/03	Outdoor; 1/3-in. day/night color camera and 9-22 mm autoiris varifocal lens; 550 TVL resolution, 12 VDC/24 VAC; isolated power input; clear lower dome; NTSC/PAL.
VC-700D-WDR/C	9660-64/63	Outdoor; 1/3-in. Pixim color camera with WDR and 9-22 mm autoiris varifocal lens; 540 TVL resolution, 12 VDC/24 VAC; isolated power input; clear lower dome; NTSC/PAL.
<b>Power Supplies</b>		
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
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 output, 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)

**Table 1: Models, Product Codes and Descriptions**

<b>Vicon Product Facts</b>		<b>Model No:</b> VC-700W Series	<b>Product Code:</b> Refer to Table 1	<b>SEC:</b> 3	<b>SPEC:</b> V178-11	<b>REV:</b> 409
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## Technical Information

### ELECTRICAL

**Input Voltage:** 12 VDC (11-20 VDC) or 24 VAC (20-27 VAC) isolated.

**Current:** 209 mA nominal @ 12 VDC;  
84 mA nominal @ 24 VAC;  
VC-700WIR, IR ON: 370 mA  
nom @ 12 VDC;  
196 mA nom @ 24 VAC.

**Power Consumption:** 2.3 W nominal @ 12 VDC;  
2.6 W nominal @ 24 VAC;  
VC-700WIR, IR ON: 4.6 W nom  
@ 12VDC;  
4.7 W nom @ 24 VAC.

**Heat Equivalent:** 0.13 btu/min  
(0.03 kg-cal/min) @ 12 VDC;  
0.15 btu/min  
(0.037 kg-cal/min) @ 24 VAC;  
VC-700WIR, IR ON: 0.26 btu/min  
(0.06 kg-cal/min) @ 12 VDC;  
0.27 btu/min  
(0.07 kg-cal/min) @ 24 VAC.  
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: power leads.  
Video: BNC on pendant cable.

**Radio Frequency  
Emission Rating:** FCC Class A.

### VIDEO

**Video Output:** 1.0 V p-p/75 ohm composite.

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

**Synchronization:** Internal (12 VDC)/External (Line  
Lock, 24 VAC).

**Camera/Lens  
Specifications:** Refer to Table 2.

**Maximum Power  
Distances (@24 VAC):**

Wire Size (AWG) Annealed Copper Wire	Maximum Distance ft (m)
	(@196 mA)
20	981 (299)
18	1567 (478)
16	2495 (760)
14	3955 (1205)
12	6299 (1919)

### MECHANICAL

**Tilt and Horizontal  
Adjustment:** Pan, 360°; tilt, 90° from vertical  
and rotation about its axis  
(roll/azimuth).

**Lens Adjustment:** Focus: focus lever screw.  
Zoom: zoom lever screw.

**Application:** Outdoor.

**Mounting:** Surface mount or in-ceiling.

**Dimensions:** Height (H): 5.0 in. (257 mm).  
Diameter (D): 5.7 in.  
(145.2 mm).  
Dome Diam: 4.5 in. (114 mm).

**Weight:** Approx. 1 lb (0.45 kg).

**Construction:** Metal housing; polycarbonate  
lower dome.

**Finish:** Light gray.  
Dome: smoked or clear (model  
dependant); black mask.

**Shipping  
Dimensions:** Height: 6.25 in. (159 mm).  
Width: 7.5 in. (191 mm).  
Depth: 7.5 in. (191 mm).

**Shipping Weight:** 1.7 lb (0.8 kg).

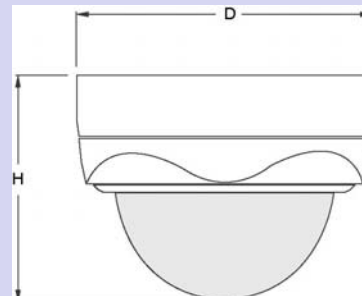
**Shipping Volume:** 0.2 ft<sup>3</sup> (0.006 m<sup>3</sup>).

### ENVIRONMENTAL

**Operating  
Temperature Range:** +14 to 131° F  
(-10 to 55° C).

**Operating  
Humidity Range:** Up to 90% relative,  
noncondensing.

**Storage  
Temperature Range:** -4 to 158° F (-20 to 70° C)  
maximum.



## Technical Information (cont'd)

Model	VC-700WS/VC-700WSC VC-700DWS/VC-700DWSC	VC-700WDN/VC-700WDNC VC-700DW-DN/VC-700W-DNC	VC-700W-IR/ VC-700W-IRC	VC-700WDR/VC-700WDRC VC-700D-WDR/VC-700D-WDRC
<b>Camera</b>				
Image Device	1/3-inch CCD, 2:1 interlace, NTSC/PAL	1/3-inch CCD, 2:1 interlace, NTSC/PAL	1/3-inch CCD, 2:1 interlace, NTSC/PAL	1/3-inch Pixim, CMOS progressive, NTSC/PAL
Color/Monochrome	Color	Color	Color	Color
Resolution (TV lines)	550	550	550	540
Sensitivity fc (lux)	0.04 fc (0.4 lux) with f/1.2 lens	Color: 0.04 fc (0.4 lux) BW: 0.004 (0.04) with f/1.2 lens	Color: 0.04 fc (0.4 lux) BW, no LED: 0.004 fc (0.04 lux) scene with f/1.2 lens	BW: 0.008 fc (0.08 lux) ; Color: 0.056 fc (0.6 lux) with f/1.2 lens
Synchronization	Internal (12 VDC)/ Line Lock (24 VAC)	Internal (12 VDC)/ Line Lock (24 VAC)	Internal (12 VDC)/ Line Lock (24 VAC)	Internal (12 VDC)/ Line Lock (24 VAC)
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	NTSC: 1/60-1/100,000 PAL: 1/50-1/100,000
AGC	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF
White Balance	ATW/AWB DIP switch selectable	ATW/AWB DIP switch selectable	ATW/AWB DIP switch selectable	ATW/AWB
Signal-to-Noise Ratio	>48 dB (AGC off)	>48 dB (AGC off)	>48 dB (AGC off)	>48 dB (AGC off)
<b>Lens</b>				
Focal Length (mm)	3.3 - 12/9 - 22 varifocal with autoiris	3.3 - 12/9 - 22 varifocal with autoiris	3.3 - 12 varifocal with autoiris	3.3 - 12/9 - 22 varifocal with autoiris
Angle of View	Horiz: 83.9°- 23.91° Vert: 61.9° - 17.93°/ Horiz: 31.2°- 12.8° Vert: 22.8° - 9.6°	Horiz: 83.9°- 23.91° Vert: 61.9° - 17.93°/ Horiz: 31.2°- 12.8° Vert: 22.8° - 9.6°	Horiz: 83.9°- 23.91° Vert: 61.9° - 17.93°/	Horiz: 83.9°- 23.91° Vert: 61.9° - 17.93°/ Horiz: 31.2°- 12.8° Vert: 22.8° - 9.6°
Iris Setting	Mechanical Iris (ME)/ Electronic Iris (AE) DIP switch selectable	Mechanical Iris (ME)/ Electronic Iris (AE) DIP switch selectable	Mechanical Iris (ME)/ Electronic Iris (AE) DIP switch selectable	Mechanical Iris (ME)/ Electronic Iris (AE) DIP switch selectable

**Table 2: Camera/Lens Specifications**



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