



VC-700 SERIES FIXED CAMERA DOMES



Highly configurable, compact camera domes provide cost-effective solutions for all types of installations

- Indoor and outdoor models
- In-ceiling, surface-mount or pendant mounting options
- Models with super-high 500 TVL resolution
- Color or day/night camera
- Models with Wide Dynamic Range or IR illumination
- 3.3 - 12 mm autoiris varifocal lens (9 - 22 mm on WDR)
- Provides 90° tilt for straight down view

The VC-700 Series of Fixed-Position Camera Domes offer a compact domed housing incorporating a fixed camera and lens combination. These camera domes are available in indoor or outdoor models. The indoor versions are configured for in-ceiling or surface-mount installation; the outdoor models are for surface-mounting; an adapter is available to allow pendant mounting from a wall mount. The domes include a high-resolution or super-high-resolution color camera or day/night camera with an isolated power input and a varifocal autoiris lens. Models are available

that offer wide dynamic range for the best contrast for high-quality images or IR illumination for low-light environments. Models are available in NTSC and PAL formats. 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.

Table 1: Model Numbers, Product Codes and Descriptions

Model	Product Code	Description
VC-700S/VC-700SC	9137-24/9137-23	Indoor; 1/3-in. color camera
VC-710S/VC-710SC	9137-34/9137-33	Indoor; 1/3-in. color camera
VC-700WDN/VC-700WDNC	9161-04/9161-03	Outdoor; 1/3-in. color camera
VC-7000W-IR/VC-700W-IRC	9137-44/9137-43	Outdoor; 1/3-in. color camera
VC-700D-WDR/ VC-700D-WDRC	9550-64/9660-63	Outdoor; 1/3-in. day/night color camera

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ELECTRICAL
Input Voltage: 12 VDC (11-20 VDC) or 24 VAC (20-27 VAC) isolated.
Current Rating (nominal): VC-700 Series: 209 mA @ 12 VDC; 84 mA @ 24 VAC.
VC-700WIR: 370 mA @ 12 VDC; 196 mA @ 24 VAC (IR ON).
VC710S: 250 mA @ 12 VDC; 105 mA @ 24 VAC.
Power Consumption: VC-700 Series: 2.3 W @12 VDC; 2.6 W @ 24 VAC.
VC-700WIR: IR ON, 4.44 W@12 VDC; 4.7 W @ 24 VAC.
VC-710S: 3.9 W @12 VDC; 4.0 W @ 24 VAC.
Connectors: Power: power leads.
Video: BNC on pendant cable.
Radio Frequency Emission Rating: FCC Class A.
Camera/Lens Specification: See Table 2.

OPERATIONAL
Tilt and Horizontal Adjust: Pan, 360°; tilt, 90°from vertical; rotation about its axis (roll/azimuth).
Lens Adjustment: Focus: focus lever screw.
Zoom: zoom lever screw.

MECHANICAL
Application: VC-700S/VC-710S: Indoor.
VC-700W: Outdoor.
Mounting: Indoor: In-ceiling or surface mount.
Outdoor: Surface mount; adapter available for pendant mounting from wall mount.
Construction: Indoor: Plastic. Outdoor: Metal.
Dome: Polycarbonate.
Finish: Light gray.
Dome: smoked or clear (model dependant); black mask.
Dimensions: Height: 5.0 in. (257 mm).
Diameter: 5.7 in. (145.2 mm).
Dome Diameter: 4.5 in. (114 mm).

ENVIRONMENTAL
Operating Temperature Range: 14 to 131° F (-10 to 55° C).
Operating Humidity Range: Up to 90% relative, noncondensing

Table 2: Camera and Lens Specifications

Model	VC-700S	VC-700WDN	VC-710S	VC-700WIR	VC-700D-WDR
Camera					
Image Device	1/3-inch CCD 2:1 interface NTSC/PAL	1/3-inch CCD 2:1 interface NTSC/PAL	1/3-inch double scan CCD 2:1 interface NTSC/PAL	1/3-inch CCD 2:1 interface NTSC/PAL	1/3-inch Pixim, CMOS progressive, NTSC/PAL
Color/Monochrome	Color	Day/Night Color	Color	Color	Color
Resolution (TV lines)	550	550	480	550	540
Sensitivity fc (lux)	0.03 (0.3) scene with f/1.2 lens	(BW) 0.004 (0.04) scene with f/1.2 lens	0.06 (0.6) at 30 IRE, f/1.2, AGC ON	(BW, no LED) 0.004 (0.04) scene with f/1.2 lens	(BW) 0.008 (0.08) with f/1.2 lens
Synchronization	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock	Internal/Line Lock
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	NTSC: 1/60- 1/100,000 PAL: 1/50-1/100,000
BLC	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	WDR	ON/OFF DIP switch selectable	WDR
AGC	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF
Wide Dynamic Range	N/A	N/A	ON/OFF DIP switch selectable	N/A	OSD menu selectable
IR Illumination	N/A	N/A	N/A	18 LEDs	N/A
White Balance	ATW/AWB DIP switch selectable	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)	>48 dB (AGC off)
Lens					
Focal Length (mm)	3.3-12 varifocal with autoiris	3.3-12 varifocal with autoiris	3.3-12 varifocal with autoiris	3.3-12 varifocal with autoiris	9-22 varifocal with autoiris
Angle of View	Horiz: 83.9° - 23.91° Vert: 61.9° - 17.93°	Horiz: 83.9° - 23.91° Vert: 61.9° - 17.93°	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	Mechanical Iris (ME)/ Electronic Iris (AE) DIP switch selectable