

# VC-600/VC-610 Series

Fixed Dome Cameras



- Indoor and outdoor models
- 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

The VC-600/VC-610 Series of Fixed-Position Camera Domes offers 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. 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. A clear lower dome is included. 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 (60° 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-600/VC-600C	8785-04/8785-03	Indoor; 1/3-in. 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-610/VC-610C	8785-14/8785-13	Indoor; 1/3-in. color camera and 3.3-12 mm autoiris varifocal lens; 480 TVL resolution, wide dynamic range, 12 VDC/24 VAC; isolated power input; clear lower dome; NTSC/PAL.
VC-600W/VC-600WC	8786-24/8786-23	Outdoor; 1/3-in. 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-610W/VC-610WC	8785-34/8786-3L3	Outdoor; 1/3-in. color camera and 3.3-12 mm autoiris varifocal lens; 480 TVL resolution, wide dynamic range, 12 VDC/24 VAC; isolated power input; clear lower dome; NTSC/PAL.
VC-600WDN/ VC-600WDNC	8786-44/8786-43	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-600WIR/ VC-600WIRC	8789-04/8789-03	Outdoor; 1/3-in. day/night color camera and 3.7 mm lens; 550 TVL resolution, IR illumination, 12 VDC/24 VAC; isolated power input; clear lower dome; NTSC/PAL.

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## Technical Information

### ELECTRICAL

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

Current Rating (nominal): VC-600: 209 mA @ 12 VDC; 84 mA @ 24 VAC. VC-600WIR: 370 mA@12 VDC; 196 mA@24 VAC (IR ON). VC-610: 250 mA @ 12 VDC; 105 mA @ 24 VAC.

Power Consumption: VC-600: 2.5 W @12 VDC; 2 W @ 24 VAC. VC-600WIR: IR ON, 4.44 W@12 VDC; 4.7 W @ 24 VAC. VC-610: 3 W @12 VDC; 2.5 W @ 24 VAC.

Connectors: Power: power leads. Video: BNC on pendant cable.

Maximum Operating Distance:

Wire Size (AWG) Annealed Copper Wire	Maximum Distance ft (m)	
	VC-600	VC-610
20	2400 (731)	1900 (579)
18	3750 (1143)	2970 (905)
16	6000 (1829)	4750 (1448)
14	9600 (2926)	7600 (2316)
12	15,000 (4572)	11,880 (3621)

Radio Frequency Emission Rating: FCC Class A.

Camera/Lens Specification: See Table.

### OPERATIONAL

Tilt and Horizontal Adjustment: Pan, 360°; tilt, 60° from vertical; rotation about its axis (roll/azimuth). Focus: focus lever screw. Zoom: zoom lever screw.

### MECHANICAL

Application: VC-600/VC-610: Indoor. VC-600W/VC-610W/VC-600WDN/VC-600WIR: Outdoor.

Mounting: Indoor: In-ceiling or surface mount. Outdoor: Surface mount.

Construction: Plastic.

Finish: Light gray. Dome: clear.

Dimensions: Indoor  
Height: 4.1 in. (104 mm).  
Diameter: 4.5 in. (114.4 mm).  
Dome Diameter: 4.0 in. (100.5 mm).  
Outdoor  
Height: 3.6 in. (91.5 mm).  
Diameter: 5.5 in. (140 mm).  
Dome Diameter: 4.0 in. (100.5 mm).

### ENVIRONMENTAL

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

Operating Humidity Range: Up to 90% relative, noncondensing

Model	VC-600/VC-600W	VC-600WDN	VC-610/VC-610W	VC-600WIR
<b>Camera</b>				
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
Color/Monochrome	Color	Day/Night Color	Color	Color
Resolution (TV lines)	550	550	480	550
Sensitivity fc (lux)	0.03 (0.3) scene with f/1.2 lens	(BW) 0.04 (0.4) scene with f/1.2 lens	0.06 (0.6) at 30 IRE, f/1.2, AGC ON	(BW, no LED) 0.04 (0.4) scene with f/1.2 lens
Synchronization	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
BLC	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	WDR	ON/OFF DIP switch selectable
AGC	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable	ON/OFF DIP switch selectable
Wide Dynamic Range	N/A	N/A	ON/OFF DIP switch selectable	N/A
IR Illumination	N/A	N/A	N/A	18 LEDs
White Balance	ATW/AWB DIP switch selectable	ATW/AWB DIP switch selectable	ATW/AWB DIP switch selectable	ATW/AWB DIP switch selectable
Signal-to-Noise Ratio	>48 dB (AGC off)	>48 dB (AGC off)	>45 dB (AGC off)	>45 dB (AGC off)
<b>Lens</b>				
Focal Length (mm)	3.3-12 varifocal with autoiris	3.3-12 varifocal with autoiris	3.3-12 varifocal with autoiris	3.7
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: 74.2° Vert: 55.8°
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