



The VC-630 is a 1/3-inch format color camera and lens combination. The camera offers Digital Signal Processing (DSP), for clean, noiseless and reliable images, and a 3.3 – 12 mm autoiris varifocal lens. It provides a high-resolution 480 TV lines and has an isolated power input. Models are available in NTSC and PAL formats. Refer to Table 1 for complete model descriptions.

The camera offers 0.02 fc (0.2 lux) sensitivity at 30 IRE with f/1.2 lens. The camera lens is adjustable for any angle of view required. The lens zoom and focus can be easily adjusted. The camera accepts 12 VDC/24 VAC input; BLC, mirror mode, flickerless function and iris settings are DIP switch selectable.

The VC-630 Series of Color Cameras meets FCC requirements for a Class A device.


### VC-630 Series of Color Cameras

- Digital Signal Processing (DSP)
- High-resolution (480 TVL)
- 3.3 – 12 mm varifocal autoiris lens
- 12 VDC/24 VAC
- DIP switch selectable settings; automatic white balance

Model	Product Code	Description
VC-630	8787-04	1/3-in. color DSP camera and 3.3-12 mm autoiris varifocal lens; 480 TVL resolution, 12 VDC/24 VAC; isolated power input; NTSC
VC-630C	8787-03	1/3-in. color DSP camera and 3.3-12 mm autoiris varifocal lens; 480 TVL resolution, 12 VDC/24 VAC; isolated power input; PAL
<b>Power Supplies</b>		
VC24PS-1/ VC24PS-1-230	4297/4297-01	Single-channel, indoor, 120/230 VAC input, 24 VAC output, 10 W output
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)

**Caution:** 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, Product Codes and Descriptions**

<b>Vicon Product Facts</b>		Model No: VC-630 Series	Product Code: Refer to Table 1	SEC: 3	SPEC: V168	REV: 706
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## Technical Information

### ELECTRICAL

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

**Current:** 208 mA nominal @ 12 VDC;  
83 mA nominal @ 24 VAC.

**Power Consumption:** 1.65 W nominal @ 12VDC;  
1.7 W nominal @ 24 VAC.

**Heat Equivalent:** 0.09 btu/min (0.02 kg-cal/min) @ 12 VDC;  
0.1 btu/min (0.02 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.

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

### VIDEO CHARACTERISTICS

**Image Device:** 1/3-inch interline transfer CCD.

**Active Picture Elements:** NTSC: 811 (H) x 508 (V).  
PAL: 795 (H) x 596 (V).

**Sensitivity:** 0.02 fc (0.2 lux).

**Horizontal Resolution:** 480 TV lines.

**Electronic Iris:** NTSC: 1/60 – 1/100,000.  
PAL: 1/50 – 1/100,000.

**Signal-to-Noise Ratio:** >45 dB.

**White Balance:** Auto.

**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.

**Gamma Correction:** 0.45.

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

Wire Size (AWG) Annealed Copper Wire	Maximum Distance ft (m)
20	2410 (735)
18	3765 (1148)
16	6025 (1836)
14	9640 (2938)
12	15,062 (4591)

**Lens Angle of View:** Horizontal: 83.9° - 23.91°.  
Vertical: 61.9° - 17.93°.

### CONTROLS AND CONNECTORS

#### Lens/Angle of View

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

**Connectors:** Power: terminal block.  
Video: BNC on pendant cable

**External Controls:** Power: red LED.  
LEVEL (iris) potentiometer.  
DIP Switch Settings:  
Iris setting ME/AE.  
BLC ON/OFF.  
Flicker ON/OFF.  
Mirror ON/OFF.

### MECHANICAL

**Mounting:** ¼-20 threaded hole in camera bottom and camera top.

**Dimensions:** Height (H): 2.0 in. (51 mm).  
Width (W): 2.2 in. (57 mm).  
Depth (D): 4.7 in. (120 mm).

#### Distance from Base to Optical Center of Lens (X):

0.875 in. (22.2 mm).

**Weight:** 0.8 lb (0.37 kg).

**Finish:** Light beige.

#### Shipping Dimensions:

Height: 3.2 in. (80 mm).  
Width: 3.5 in. (90 mm).  
Length: 5.9 in. (150 mm).

**Shipping Weight:** 1.5 lb (0.7 kg).

**Shipping Volume:** 0.04 ft<sup>3</sup> (0.001 m<sup>3</sup>).

### ENVIRONMENTAL

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

**Operating Humidity Range:** Up to 85% relative, noncondensing.

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



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