



VC-632 Series of Wide Dynamic Range and Day/Night Color Cameras

- Digital Signal Processing (DSP)
- Wide Dynamic Range of X 128
- High-resolution - 580 TVL (B&W) or 480 TVL (color)
- Accepts C or CS mount lens
- 12 VDC/24 VAC
- DIP switch selectable settings

The VC-632 is a 1/3-inch format day/night color camera that combines excellent picture quality with advanced features. It is a dual mode color and monochrome (B&W) camera with digital signal processing (DSP) and wide dynamic range (WDR). DSP control offers crisp lines and detail reproduction while WDR provides the best contrast for high-quality images. The CCD device has over 379,000 pixels (437,000 PAL), providing a sharp color image with accurate color rendition.

The VC-632 provides a high-resolution of 580 TV lines in black-and-white mode and 480 TV lines in color mode. Models are available in NTSC and PAL formats. Refer to Table 1 for complete model descriptions.

A minimum scene illumination of 0.05 fc (0.5 lux) in color mode or 0.001 fc (0.01 lux) in black-and-white mode provides usable video at 40 IRE with f/1.2 lens. The camera accepts 12 VDC/ 24 VAC input and has an isolated power input.

The VC-632 has dual autoiris modes, video-drive lenses (ES and AC models) and DC-drive (CS-G) lenses and accepts CS-mount or C-mount lenses. Synchronization is selectable, internal or line-locking; multiple cameras can be synchronized using the line-lock function.

The VC-632 Series of Color Cameras complies with FCC requirements for a Class A device.

Model	Product Code	Description
VC-632	8787-24	1/3-in. color DSP camera with wide dynamic range; 580 TVL resolution (B&W), 480 TVL resolution (color); 12 VDC/24 VAC; isolated power input; NTSC
VC-632C	8787-23	1/3-in. color DSP camera with wide dynamic range; 580 TVL resolution (B&W), 480 TVL resolution (color); 12 VDC/24 VAC; isolated power input; PAL
Power Supplies		
S24PS-1	7027-00	Single-channel, indoor/outdoor, 120 VAC input, 24 VAC output, 2.5 A
S24PS-230	7027-01	Single-channel, indoor, 230 VAC input, 24 VAC output, 2.5 A
V2448-175PS	6410-20	Four-channel, indoor, 120 VAC input, 24/28 VAC output (jumper selectable), 7/6.25 amps (total)
V248-300PS	6422-10	Eight-channel, indoor, 120 VAC input, 24/28 VAC output, 12.5/10 A (total)
V2416-8PS	7669	Sixteen-channel, indoor, 120 VAC input, 24 VAC output, 0.5 A/channel (8 A 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

Vicon Product Facts		Model No: VC-632 Series	Product Code: Refer to Table 1	SEC: 3	SPEC: V168-10	REV: 706
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ELECTRICAL

Input Voltage: 12 VDC or 24 VAC $\pm 10\%$, isolated.

Current: 600 mA nominal @ 12 VDC;
500 mA nominal @ 24 VAC.

Power Consumption: 7.2 W nominal @ 12VDC;
12 W nominal @ 24 VAC.

Heat Equivalent: 0.4 btu/min
(0.1 kg-cal/min) @ 12 VDC;
0.7 btu/min
(0.2 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: 768 (H) x 494 (V).
PAL: 752 (H) x 582 (V).

Sensitivity: 0.001 fc (0.01 lux) in B&W;
0.05 fc (0.5 lux) in color
@40 IRE with f/1.2 lens.

Horizontal Resolution: 580 TV lines in B&W;
480 TV lines in color.

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

Signal-to-Noise Ratio: >48 dB (AGC off).

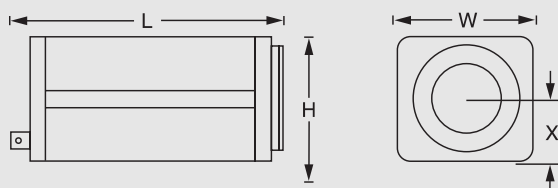
White Balance: Auto.

Video Output: 1.0 V p-p VBS/75 ohm.

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

Synchronization: Internal/Line-lock.

Dynamic Range: X 128.



CONTROLS AND CONNECTORS

Connectors: Power: 2-pin terminal block.
Video: BNC.
MD/Day/Night Sensor: terminal block.
Lens: Video-drive: 3-pin terminal block;
DC-Drive: 4-pin connector (side).

Indicator: Power: red LED.

OSD Menu: Rear panel push button controls.
Camera ID.
Lens type (manual, video, DC).
WDR (OFF, WDR, BLC).
Day/Night (color; BW; Auto; EXT).
Motion Detection (ON, OFF).
Privacy Zone (PZ1-8).
AWB (S-ATW, W-ATW, AWC, Manual).
Sync (Internal, Line-lock).
Digital Zoom (up to 16X).

MECHANICAL

Mounting: 1/4-20 threaded hole in camera bottom and camera top.

Dimensions: Height (H): 2.0 in. (50 mm).
Width (W): 2.4 in. (60 mm).
Depth (D): 5.0 in. (126 mm).

Distance from Base to Optical Center of Lens (X): 1.0 in. (25 mm).

Weight: 1.1 lb (0.5 kg).

Finish: Light beige.

Shipping Dimensions: Height: 3.2 in. (80 mm).
Width: 3.9 in. (98 mm).
Length: 7.3 in. (185 mm).

Shipping Weight: 1.3 lb (0.6 kg).

Shipping Volume: 0.053 ft³ (0.0015 m³).

ENVIRONMENTAL

Operating Temperature Range: +14 to 122° F
(-10 to 50° 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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