

IVC-91 Features

- Three tube design for superior resolution and color fidelity
- FET preamplifiers for low noise level
- Electronic skew, linearity, and improved mechanical rotation controls
- Improved optical system
- Optional video meter eliminates waveform monitor
- Available in self-contained or remote control configurations

IVC-91 low cost color television camera

Description and Applications

The IVC-91 color television camera is the latest version of the most popular Closed Circuit color TV camera ever made. It is available in two configurations: self contained and remote control. A choice of zoom or fixed focus lenses make the camera ideal for use as a studio camera, telecine camera, or for special projects such as microscopy.

In the self-contained configuration the IVC-91 comes ready to use with lens, internal sync generator, and internal encoder (PAL or SECAM). For more sophisticated systems, the remote control configuration may be used with an external sync generator and an external color encoder. Field conversion from self contained to remote control (or vice versa) is a simple and inexpensive process.

The IVC-91 uses a patented optical system and a proven three-vidicon design to produce high-quality pictures with a minimum of adjustments. Silicon transistors and integrated circuits, mounted on plug-in fiberglass circuit boards, contribute to stability and reliability. A rugged main frame casting provides support for all components.



IVC-91 Specifications

GENERAL

Scanning Standards: 625 lines, 50 fields, 25 frames

Pickup Tubes: Three separate mesh 1" vidicons

Taking Lens: 18-110mm, f/1.9, 6:1 zoom lens standard for live camera. Fixed focus lens standard for telecine. Other lenses available on special order.

Viewfinder Size: 5" diagonal (12.7 cm)

Tally Lights: Top of camera and inside viewfinder hood

DIMENSIONS

		Depth	Width	Height
Camera Head (without lens)	inches cm	12.5 31.8	10.0 25.4	28.0 71.1
Camera Junction Unit (optional)	inches cm	8.0 20.3	19.0 48.3	5.25 13.3
Camera Control Unit (optional)	inches cm	1.5 3.8	19.0 48.3	5.25 13.3

Camera Head Weight (without lens): 72 lb (33 Kg)

VIDEO

Output (self-contained): 1.0 volt composite, compatible with CCIR and PAL specifications

Output (remote control): 0.7 volt noncomposite R, G, B signals

Resolution (Luminance Signal): 400 lines in center; 350 lines in corners

Aperture Correction: 0-10 dB adjustable

Signal-to-Noise Ratio: 38 dB minimum at 200 ft candles (2000 lux) and lens at f/2.4 with typical tubes and scene reflectivity of 60%

Minimum Light Level: 40 ft candles (400 lux)

Window Signal Tilt: Less than 2% horizontal and vertical

Geometric Distortion: Less than 1% within a circle having a diameter equal to picture height, less than 2% elsewhere

On Axis Linearity: 1%

Registration Error: Less than 0.2% within a circle whose diameter is 80% of picture height. Less than 0.3% elsewhere.

Gamma: 0.65

Gray Scale: 10 steps on EIA chart

CONTROLS

Camera Head: On/off, master gain, master pedestal, focus, zoom, iris plus access to R, G and B gain and pedestal trim

Viewfinder: Contrast, brightness, horiz hold, vertical hold, focus, RGBY pushbuttons

Remote Control (optional): On/off, master gain, master pedestal, R,G,B gain and pedestal trim, R and B vertical and horizontal centering

Note: *When remote control is connected, adjustments at the camera head are inoperative.*

INPUTS

Power: 230 Vac \pm 10%, 50 Hz, 150 watts, single phase

Drives: None in self-contained mode, V drive, H drive and sync in remote control mode

Specifications subject to change without notice.



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