

IVC-151 Features

Two Plumbicons*, one silicon diode tube for advanced colorimetry

Completely self-contained for closed circuit operation

Optional configurations for external drive, PAL or SECAM encoding

6:1, F1.9 zoom lens; 10:1, F2.0 optional

High sensitivity for operation down to 10-foot candles (93 lux)

FET preamps for low noise level

Optional YRB matrixing for greater stability

IVC-151 self-contained low cost color television camera

Description and Applications

The IVC-151 color camera combines many well-known IVC innovations (such as factory-sealed beam-splitter optics) with the latest in pickup tube technology — the silicon diode tube.

The IVC-151 uses a silicon diode tube — which has up to seven times the red region sensitivity of a Plumbicon — in the red channel. One-inch Plumbicons are used in the blue and green channels. This approach overcomes the inherently low red response of the Plumbicon and provides greater camera sensitivity, improved SNR or S/N Ratio and better red colorimetry. Special optics and circuitry are used to bring out the best characteristics of both tube types. Optional YRB matrixing reduces the effects of registration drift for more stable operation.

Operation of the IVC-151 is simple and convenient. It can operate as a completely self-contained camera with internal sync and encoder. AC power is the only input requirement. Where a picture of the highest possible quality is required, the IVC-151 output can be externally encoded.

**T.M. N.V. Philips*



IVC-151 Specifications

GENERAL

Scanning Standards: 625 lines, 50 fields, 25 frames.

Pickup Tube Complement: 2 separate mesh 1" Plumbicons, 1 separate mesh 1" silicon diode tube.

Taking Lens: 180-110mm, f1.9 (vidicon equivalent) 6:1 zoom is standard. Other lenses from 10mm to 125mm in fixed focal length: f2.0 10:1 RTH Varotal zoom lens optional.

Viewfinder Size: 5" diagonal.

Dimensions: 28" long (excluding lens), 10" wide, 12½" high (71 x 25 x 52 cm).

Intercom (optional): Party line with anti-side tone and gain (at each headset).

VIDEO

Output Self-contained: 0.7 volt non-composite; 1.0 volt composite; sync is compatible with CCIR specifications; encoded signal is PAL compatible.

Resolution (Luminance Signal): 400 lines center, 350 lines in best corner; not less than 300 lines in worst corner; 400 lines overall with YRB matrix.

Aperture Correction: 0-10 dB adjustable in internal encoder.

Sensitivity: Studio-quality pictures at 100 ft-c (929 lux); acceptable picture at 10 ft-c (93 lux).

Window Signal Tilt: Less than 2% horizontal and vertical.

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

Masking: Integral in video processor with "on-off" switch.

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

Gamma: Switchable; 0.3, 0.5, 0.7, 1.0

CONTROLS

External: On/off; iris*; master pedestal; focus; zoom; and iris controls.

Under Rear Panel: R, G and B gain and pedestal trim.

Internal: R, G, B gain trim and pedestal trim, iris control and master pedestal; on/off switch; +0, 6.0, 9.0, 12.0 dB video booster; R, G, B gamma laws; gamma switch, white clipper adjustment, electrical skew, registration.

Remote Control (optional): On/off; master pedestal; R, G and B gain and pedestal trim; R and B vertical and horizontal centering, R and B gamma laws. (Iris control when lens equipped with iris servo).

Viewfinder: Contrast; brightness, pushbuttons providing R, G or B display (any combination) or Y (a combination of all three); H-hold, V-hold; focus.

Tally Lights: Top of camera and inside viewfinder hood: tally outlet provided on remote controls.

INPUTS

Power: 230 Vac, ±10%, 50 Hz, 275 Watts, single phase.

Drives: None in self-contained mode, V drive, H drive, burst flag, sync in external drive mode.

**Operates only with optional 10:1 +2.0 zoom lens equipped with servo iris.*

Specifications subject to change without notice.



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