

IVC-301A Features

Plumbicon Tubes

Adjustable Horizontal and Vertical Image Enhancement

Improved color masking

Immune to polarization effects

Light Weight; 75 lbs (34 kg)

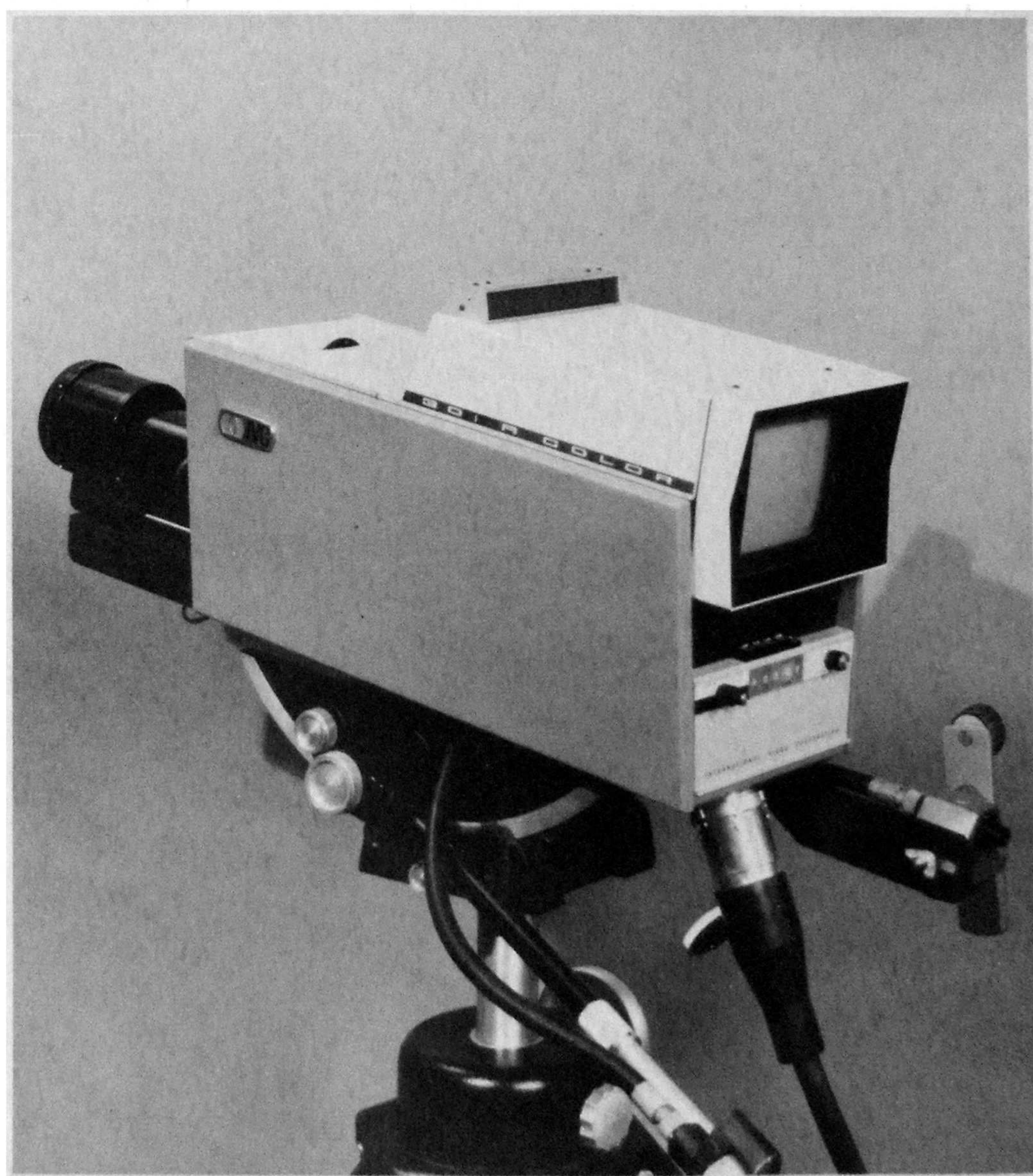
IVC-301A **plumbicon color television camera**

Description and Applications

For those who prefer the characteristics of a Plumbicon camera, the IVC-301A offers a full range of design features that will satisfy the most discriminating user of color studio equipment.

The small size, light weight and simple operation makes the IVC-301A ideal for remote and mobile applications. Some of the features that give the IVC-301A wide flexibility are: cable compensation for up to 2000' (610 m) of standard camera cable or 1600' (488 m) of miniature cable; built-in six position filter wheel; switchable preamplifier gain for operation at light levels below 200 lux; and an optional 18:1 zoom lens.

The IVC-301A dichroic beam splitting technique and special electronic design features, together with the sensitivity of Plumbicon tubes, provides excellent picture quality for users operating on a limited budget.



IVC-301A Specifications

GENERAL

Scanning Standards: 625 lines, 50 fields, 25 frames

Pickup Tube Complement: 3 separate-mesh 1" (2.54 cm) plumbicons

Taking Lens: 15-150 mm, f 2.0 zoom with servo iris control

Viewfinder Size: 9" (23 cm) diagonal

Intercom: Party line with individual gain and anti-side tone

DIMENSIONS

Camera Head: (excluding lens); 27" deep, 11.75" wide, 15.75" high; (68.5 x 30 x 40 cm)

Camera Control Unit: 3.75" deep, 19" wide, 7" high; (9.6 x 48.3 x 17.8 cm)

Camera Junction Unit: 12.5" deep, 19" wide, 7" high; (31.8 x 48.3 x 17.8 cm)

VIDEO

Output: 1.0 V composite and 0.7 V non-composite

Resolution (Luminance Signal): 500 lines center, 400 lines corners

Aperture Correction: Adjustable level-sensitive, horizontal*

Sensitivity: Operation below 200 lux with 12 dB preamp gain switched in

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

Window Signal Tilt: Less than 2% horizontal and vertical

On-axis Linearity: Better than 1%

Registration Error: Less than 0.15% within a circle having a diameter equal to 80% of picture height

Gamma: Switchable 0.3, 0.5, 0.7, 1.0

Signal-to-Noise Ratio: 47 dB at 300 nA signal current

Cable Compensation: Up to 2000' (610 m) for standard cable, 1600' (488 m) for miniature cable

CONTROLS

Camera Head: Lens zoom, focus and iris; viewfinder brightness and contrast; viewfinder R, G, B, -G and Y display selector; tally lights on top of camera and next to viewfinder.

Camera Control Unit: Master pedestal, iris, waveform monitor display selector, picture monitor display selector, horizontal R and B centering, vertical R and B centering, RGB targets, RGB gains, RGB pedestals, R and B gamma law, plus tally lights, power light and two intercom jacks.

INPUTS

Power: 230 Vac $\pm 10\%$, 50 Hz, 280 Watts, single phase.

Drives: V drive, H drive, sync, blanking, sub-carrier

**Optional Vertical Aperture Corrector available.*

Specifications subject to change without notice



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