

IVC-41M Features

Viewfinder mounts or comes off in 30 seconds
 FET cascode preamplifier for lowest noise
 Vidicon or Plumbicon* — standard or separate mesh
 CCIR synchronising generator built-in
 850 line resolution with 13 MHz bandwidth
 Automatic light level control with 4000 to 1 range
 Scan failure protection for pickup tube

IVC-41M low cost monochrome television camera

Description and Applications

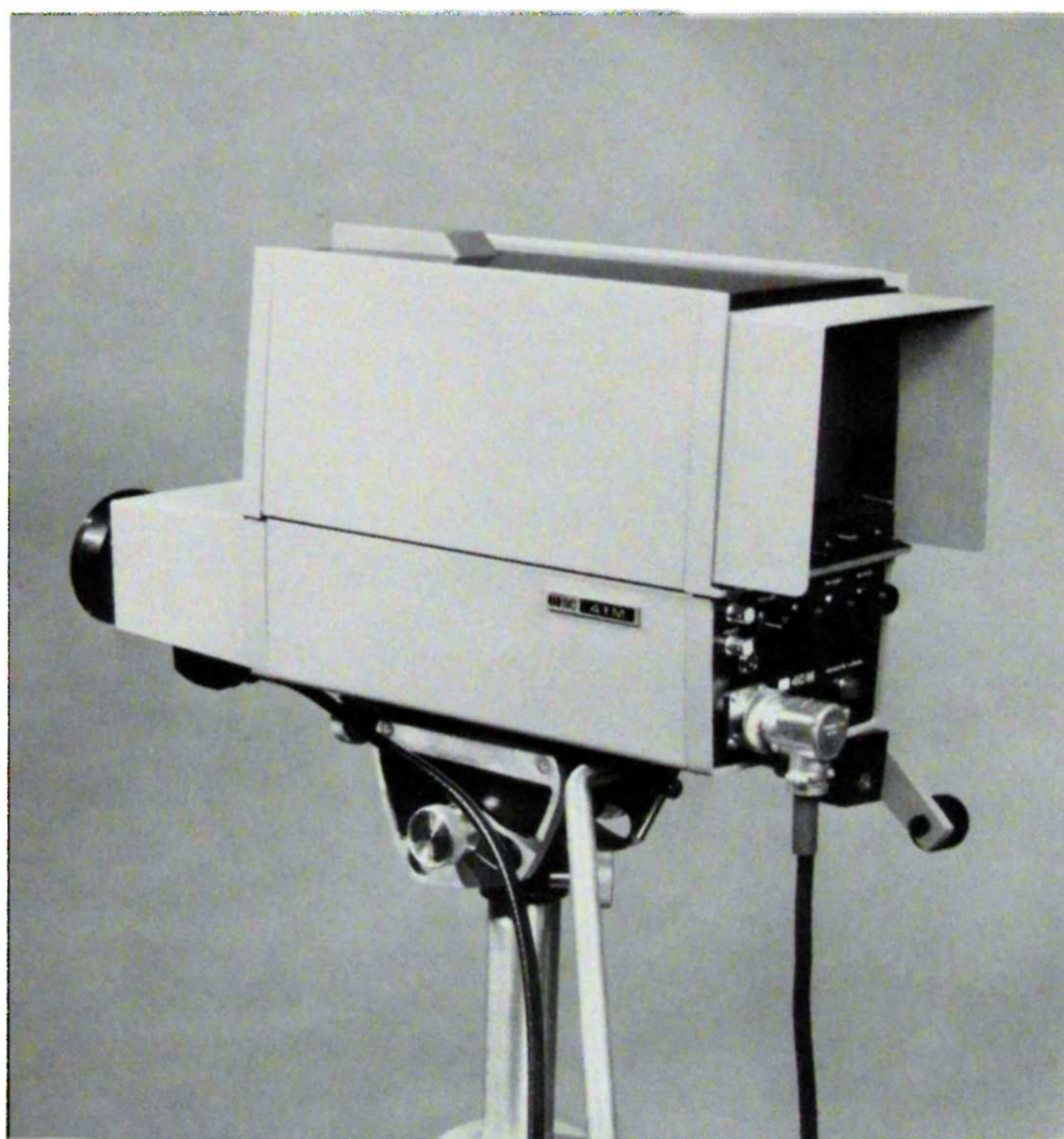
The IVC-41M monochrome camera is especially designed for high quality CCTV applications. Ideally suited for use with IVC 1" VTR's, the performance of the IVC-41M is comparable to many broadcast cameras.

The high picture quality and resolution of the IVC-41M is achieved through the use of a video amplifier having a bandwidth of more than 13.0 MHz. An FET cascode front end ensures a video signal to noise ratio in excess of 40 dB. Automatic light compensation of 4000:1 (vidicon) gives flexible operation in a wide variety of light conditions: normally lighted studios to dim remote locations. A complete range of zoom and fixed focus lenses gives an endless variety of camera shots.

Robustly constructed for long, trouble-free life, the IVC-41M uses glass epoxy printed circuit boards with gold plated connectors. Die cast and extruded camera frame members provide a lightweight rigid case. Top and side panels open with finger pressure only for easy access. The plug-in viewfinder can be added at any time with no modifications or changes to the camera.

The IVC-41M is simple and easy to use, yet you will find all the essentials for professional production: a two way intercom, tally lights on front and back, a bright, sharp, built-in viewfinder and all the controls necessary to provide clean, sharp reproduction.

*T.M. N.V. Philips



IVC-41M Specifications

GENERAL

Scanning Standards: 625 lines/frame 25 frames/sec; 2:1 interlace.

Sync: Random, switchable to crystal, 2:1 or CCIR

Tube Type: 1" (2.54 cm) vidicon; typical 8507A, 7735A (lead oxide tube optional).

Lens: Fixed focus or zoom lens; C-mount, standard 16mm (1" - 32 thread).

CAMERA

Dimensions: 7" wide x 14" long x 4.375" high (18 x 36 x 11 cm).

Weight: 15 lbs (6.8 Kg)

Power: 230 Vac $\pm 10\%$, 50 Hz, 50 W

Mounting: Four 1/4-20 holes on bottom plate

CAMERA WITH VIEWFINDER

Dimensions: 7" wide x 14" long x 11.25" high (18 x 36 x 29 cm).

Weight: 25 lbs (11.3 Kg)

Power: 230 Vac $\pm 10\%$, 50 Hz, 100 W

VIDEO

Output: 1.0 V composite. At 1.0V=140 IRE units; Video=100 IRE, Sync=40 IRE.

Bandwidth: 13.0 MHz

Resolution: 850 lines at picture center. Not less than 550 lines in corners.

Sensitivity: Using an 8507A vidicon, f/2.5 lens and viewing a standard 800 line EIA test chart with 40 ft-c (400 lux) average illumination, a peak-to-peak video level of 100 IRE units is produced.

Signal-to-Noise Ratio: 40 dB peak-to-peak signal to rms noise non-composite video (100 IRE units), full bandwidth.

Gray Scale: 10 steps, measured using standard EIA test chart.

Geometric Distortion: Less than 2%.

Automatic Light Range: 4000:1 with less than 2:1 change in the peak-to-peak video output level from 0.25 ft-c to 1000 ft-c (2.5 to 10,000 lux) of highlight illumination on the vidicon face plate.

CONTROLS

Operating: Target, beam, focus, blanking, mechanical focus, remote/local switch.

Set-up: +3.6 volts; -15 volts; focus reg.; hor. align; vert. align; auto-target; video high peak; video gain; hor. size; hor. centering; hor. sweep rev.; vert. size; vert. line; vert. centering; vert. sweep rev.; sweep overscan; sync non-comp.; drive selector switch.

VIEWFINDER

Resolution: 500 lines at picture center.

Controls: Horizontal hold, vertical hold, brightness, contrast, monitor selector, underscan switch and size.

ENVIRONMENTAL (Camera and Viewfinder)

Ambient Temp: +14 to 110°F operating
-40 to 160°F storage

Air Pressure: Sea level to 10,000 ft.

Vibration & Shock: Normal commercial shipping

Humidity: Up to 95%

Specifications subject to change without notice.



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