


European and American Television Cameras

 <p style="text-align: center;">TK-60A Pictured</p>	Make	RCA
	Model	TK-60 (A)
	Country	USA
	Camera Type : Studio monochrome, full facilities	
	Camera Description : Large camera with 4 lens turret, prominent carrying handles and fixed viewfinder. Note the cooling fan housing on the top of the camera.	

<p>Data</p> <p>Tube details 4.5" Image Orthicon type 7295-A</p> <p>Lens details 4 x TV88 mount lenses.</p> <p>Sig. to Noise 36-38dB in 4.5 MHz B/width</p> <p>Sensitivity</p> <p>Resolution 700 lines picture center, limiting</p> <p>Viewfinder 8.5" fixed type 8HP4</p> <p>Camera cable Cannon LK-R24C-22, cable = MI-94-N</p> <p>Power supply 90-130 180-260V. 50-60Hz. 900W.</p>	<p>Data</p> <p>Line standards 625/50 525/60</p> <p>Drives or locking LD, FD, MB, MS 4 volt pulses</p> <p>Weight * 68Kg.</p> <p>Colours Silver and Blue</p> <p>Dimensions * 495H x 381W x 902L mm.</p> <p>Date introduced 1963</p>
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*Excluding Lenses

Associated equipment

Processing amplifier type 26072 (60Hz.) 556072 (50Hz.), Remote control panel 26217, Power supply WP-16B, Centering supply plug in module, Master monitor TM-6C. Field cases were available for the Processing amplifier and power supply units.

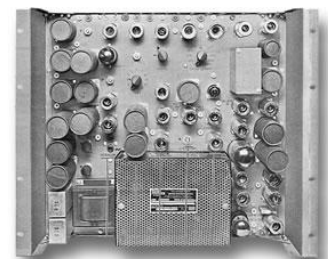
Features

This camera was designed as the TK-12 which was developed into the TK-60. By this time Image Orthicon camera design was mature and this camera has all the stability and features you would expect. The camera makes extensive use of the Nuvistor valves, mostly the RCA triode type 7586. There are also some transistors used in the power supply, the intercom and other circuits.

General description

The TK-60 has an interesting arrangement with the focus action. One of the design problems with 4.5" I.O. cameras is the weight of the scanning yoke. This becomes a problem when the camera tilts up or down and the, now out of balance, yoke makes the focus knob/lever very hard to move. Indeed the yoke could career catastrophically to the end of its travel! RCA solution to this problem was to counterbalance the yoke by moving the electronic chassis on the other side of the camera in the opposite direction! The TK-60 has an improved wedge mount system.

The modules in the TK-60A are interchangeable with the TK-60, except for the improved Iris motor and servo amplifier.



Processing amplifier
(for the earlier TK-12/32)

References

"Television Broadcasting Camera Chains" by Harold Ennes, 1971, Samms. The Camera Handbook.

Notes

A report in "Engineering 6 August 1965" describes a film camera attachment for simultaneous recording of the programme. A 16mm Gemini system of MGM telestudios Inc. is shown fitted to the TK60, with 1200ft. film magazines giving 33 minuets recording at 24 FPS. In colour or black and white. The main advantage of this is the interchangeability of film between countries with different TV standards.