


European and American Television Cameras

	Make	RCA
	Model	TK-12/32
	Country	USA
	Camera Type : Studio monochrome, full facilities	
	Camera Description : Large camera with 4 lens turret, prominent carrying handles and fixed viewfinder. Early version had no top cue light.	

Data		Data	
Tube details	4.5" Image Orthicon type 7295-A	Line standards	625/50 525/60
Lens details	4 x TV88 mount lenses.	Drives or locking	LD, FD, MB, MS 4 volt pulses
Sig. to Noise	36-38dB in 4.5 Mhz B/width	Weight *	68Kg.
Sensitivity		Colours	Silver and Blue
Resolution	700 lines picture center, limiting	Dimensions *	495H x 381W x 902L mm.
Viewfinder	8.5" fixed type 8HP4	Date introduced	1960 at NAB
Camera cable	Cannon LK-R24C-22, cable = MI-94-N		
Power supply	90-130 180-260V. 50-60Hz. 900W.		

*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.

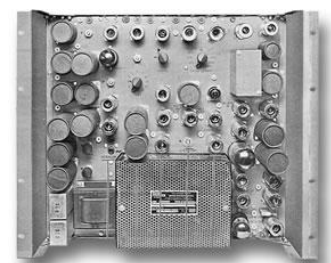
Features

When this camera was designed, 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 Nuistor valves, mostly the RCA triode type 7586. There are also some transistors used in the intercom and other minor circuits.

The TK-60 and probably the TK-12/32 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!

General description

The camera is designated TK-12 for studio use and TK-32 for field use (outside broadcast). The two types are the same electrically. The Processing amplifier and power supply are built on traditional vertical open rack chassis and these are mounted in mobile cases for field use.



Processing amplifier

References

Service Handbook

History

First shown at NAB 1960 and restyled in 1961. It was further developed into the TK60 in 1963.

Used By