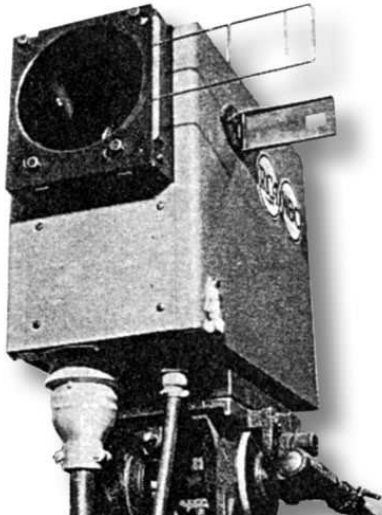


European and American Television Cameras

	Make	RCA
	Model	1939 Cam.
	Country	USA
	Camera Type : Mobile Field Camera using Iconoscope tube	
	Camera Description : Tall rectangular camera with "gun sight" viewfinder. Single large lens dominates the front of the camera.	

Data		Data	
Tube details	1 Iconoscope, 4.5" type RCA 1848	Line standards	441 lines 60Hz. interlaced
Lens details	1 Fixed special integral	Colour standards	Monochrome
Sig. to Noise		Drives or locking	Own SPG in portable case
Sensitivity		Weight *	28lbs
Resolution		Colours	Grey
Viewfinder	Side mounted gun sight type.	Dimensions *	H x W x L mm.
Camera cable	500ft.max to auxiliary unit	Date introduced	1938-9
Power supply	110v 60Hz @ 1400w.		

*Excluding Lens & Viewfinder

Associated equipment

The design used a set of portable units, each the size of a suitcase; CCU with waveform and picture monitor, PSU, Sync. generator. A camera Auxiliary contained most of the camera electronics, it used two 8 foot lengths of cable to connect to the camera.

A complete outfit of 3 channels weighed approx 2000lbs including cables.

Features

The cameraman had only the most rudimentary gun sight style viewfinder on the side of the camera. There was no control for focusing! This was done remotely by observing the picture on the display tube in the camera control unit, (CCU) the operator used a "Selsyn" generator-motor system to move the lens in the camera.

General description

References

RCA Television volume III page 95-115, Portable Television Pickup Equipment, by G.L Beers, H. Schade, & R.E. Shelby. Also published in Proceedings of the I.R.E. Oct. 1940 pages 450-458.

Innovations

The SPG is divided into 3 units, the delay unit, the shaping unit and the pulse unit. This used a brass disk driven by a 3600RPM synchronous motor with 441 teeth to produce the twice line frequency of 26,460Hz. and a single "fin" to produce the 60Hz. field pulse.

History

Notes



The camera auxiliary unit