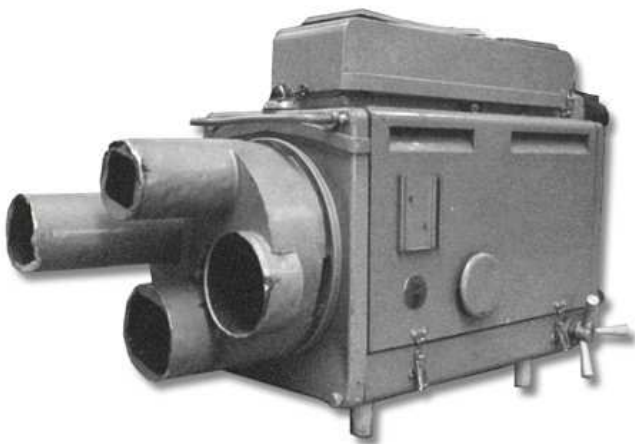


European and American Television Cameras

	Make	EMI
	Model	10678
	Country	UK
	Camera Type : Studio monochrome	
	Camera Description : Large camera with 4 lens turret and the viewfinder on top. Prominent lens hoods (3)	

Data		Data	
Tube details	EMI CPS Emitron type 10764 (1)	Line standards	625/50 405/50
Lens details	Turret with 3,4,8 & 12 inch lenses	Colour standards	Monochrome
Sig. to Noise	40-43dB for 405 lines	Drives or locking	4 standard mono pulses.
Sensitivity	80 Ft Lamberts @ f5.6	Weight *	160lbs.
Resolution	-3dB at 3Mhz 405 lines uncorrected	Colours	Gray
Viewfinder	5inch. Tilts ± 30°. Removable.	Dimensions *	533H x 381W x 685L mm.
Camera cable	BICC Mk4b slow thread	Date introduced	1956 (2)
Power supply	240v, 50Hz, 2Kva + 50Vdc 0.6A		

*Excluding Lens

Associated equipment

CCU control console with 3.5 inch waveform and a 14 inch picture monitors, a power supply cubicle. A diascope attachment was available which fitted to the 3-inch lens.

General description

The free standing control console weighed 300pounds and the PSU cubical weighed 700pounds. (This was a twin unit for two channels) At the bottom of the control console was a connection panel into which the camera cable plugged.

The 10678B was for 405 lines and the 10678C for 625 lines. (3) The EMI pictures show the camera without the unusual lens hood assembly, but the pictures of the camera in service with the BBC do have the lens hood in place.

References

Product Brochure. Report on page 164 April 1956 Wireless World (2).

Innovations

During focussing both the tube and the lens turret move, helping camera balance with high or low angle shots. The control of tube exposure is by a variable density rotating filter wheel controlled from the CCU. The lens irises can be controlled from the rear of the camera to give a setting for depth of field. The camera head amplifier used an EMI special low noise input valve type R5559.

History

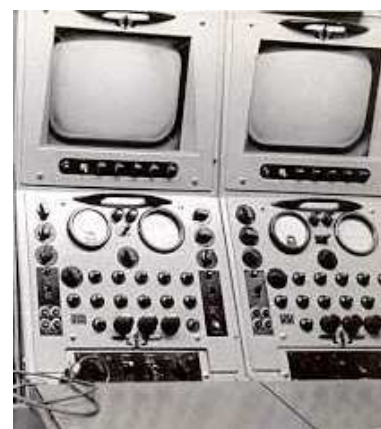
Two are known to have survived.

Notes

(1) The target diagonal for the CPS Emitron is 56mm. The type 10764 tube is similar to the older type 5954 tube but has modifications that completely overcome the instabilities of the older tube.

Used By

BBC TV in the UK and I think by ABC TV in Australia.



A pair of 10768 CCUs