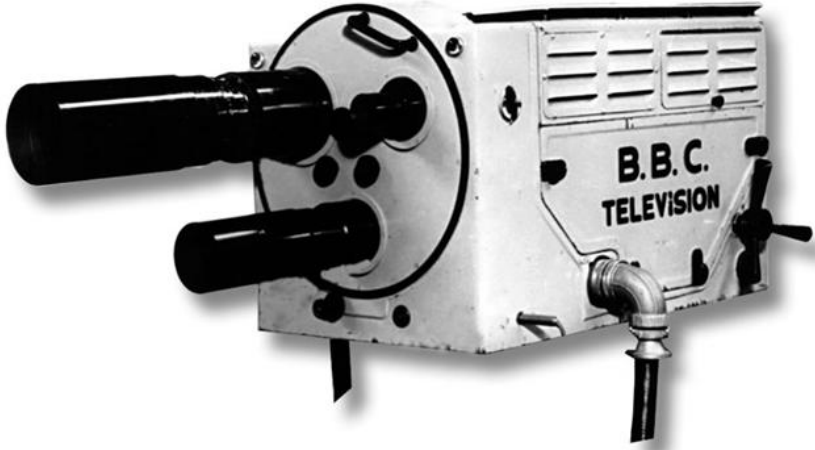


European and American Television Cameras

	Make	EMI
	Model	4499
	Country	UK
	Camera Type : Studio or OB camera	
	Camera Description : Large camera with 3 lenses on a quick change turret. The 3 spoke focus control can be fitted to either side of the camera. Fixed electronic viewfinder.	

Data

Tube details	1 * CPS Emitron type 5954
Lens details	3 * lenses on quick change turret
Sig. to Noise	
Sensitivity	100 Lux @f2
Resolution	750+ lines claimed for tube response
Viewfinder	Fixed electronic viewfinder
Camera cable	1000ft max
Power supply	1.3Kva

Data

Line standards	405/50
Colour standards	Monochrome
Drives or locking	Standard pulses
Weight *	150lbs excluding .turret
Colours	
Dimensions *	H x W x L mm.
Date introduced	29 July 1948

*Excluding Lens

Associated equipment

CCU, Vision HT unit, Vision LT unit, picture and waveform monitor. Camera cable divider unit.

General description

The camera had two quickly changed lens turrets with 2.5" to 17" lenses. Internal electronic viewfinder, plug in sub units, focus by tube movement, tube change through camera rear, it used a camera cable divider at camera end with a connection to both sides of the camera.

References

The Design of a TV camera channel for use with the CPS Emitron. By E. White & M. Harker. Proc. IEE volume 97 part 3 No. 50 Nov. 1950. TV Engineering, Amos & Birkenshaw, Iliffe Page 181. 1949 BBC yearbook page 94.

Innovations

At this period almost all features were innovations, many of the standard features of later cameras are present, clamps, gamma, talkback, cues, cable compensation, and electronic viewfinder.

History

Two prototype cameras were first used at the royal wedding of Princess Elizabeth in November 1947 for the wedding scenes outside Westminster Abbey, and in Dec. 1947 for the first time in a studio for an ITMA broadcast. The production model 4499 was first used, as part of a 3 camera OB van, on 29 July 1948 at the Olympic Games at Wembley. [Pawley-page 355]

Notes

An industrial version of this camera was made for use in hospital operating theatres.

Used By

BBC