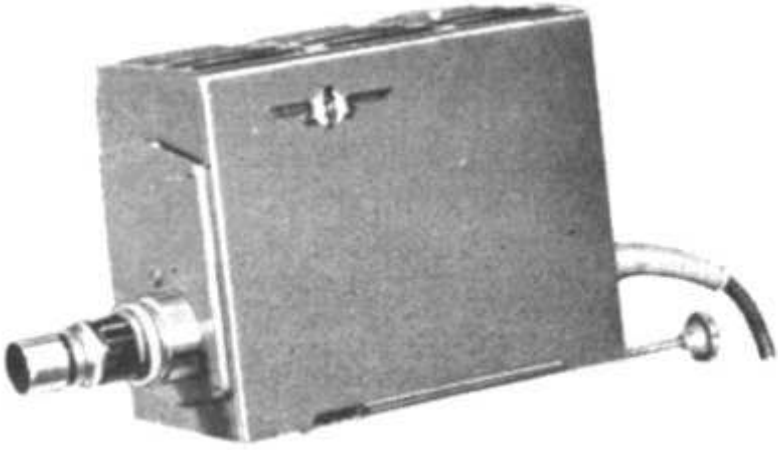


## European and American Television Cameras

	<b>Make :</b>	<b>EMI</b>
	<b>Model :</b>	<b>Industrial CPS Emitron</b>
	<b>Country</b>	<b>UK</b>
	<b>Camera Type : Good quality industrial camera</b>	
	<b>Camera Description : Small camera with single lens. Head unit contains Video amplifier and line scan circuits.</b>	

<b>Data</b>		<b>Data</b>	
Tube details	Emitron type 5907. 35mm target	Line standards	405/50
Len details	Single lens		
Sig. to Noise	dB.	Drives or locking	Internal sync generator with mains lock.
Sensitivity	Signal current of 100nA. @f2 with 20ft. Lamberts	Weight	The Camera weighed 25 Lbs. The CCU weighed 80Lbs.
Resolution	Better than "standard receivers"	Colours	EMI dark green
Viewfinder	None	Dimensions	280H x 178W x 350L mm.
Camera cable	BICC 37 core slow thread, Mk4A? to 600ft.	Date designed	1953 **
Power supply	200-250volts 50Hz. @ 500watts	Dates used	1954

### Associated equipment

Large CCU and PSU unit size 26" high x 9" deep x 17" wide. It had four chassis in a "swing out" arrangement for service access. There was a 1.5" waveform monitor tube, to help with setting the SPG dividers.

### Developments

The camera had an "electronic zoom" facility by changing the scan amplitudes. A range of 2 to 1 was available with a greater range resulting in loss of sensitivity. It was claimed that there was no loss of detail as the tube has better definition than the standard receivers used. The 5907 CPS Emitron tube is a miniaturized version of the 5936 tube and it had been improved with a mesh to ensure stability under high light levels.

### General Description

The camera channel had 3 RF outputs in band 1 with sync and modulation very similar to the BBC standard waveform. A six position, motor driven, neutral density filter wheel operated from the control rack gave remote control of the light level in the range of 64:1.

### References

There is a very good description of this camera in the Journal of the Television Society, June 1954 page 248. (later the RTS) \*\* Wireless World Oct 1953 page 460 shows a prototype camera.

### Notes

It is thought that the BBC used these cameras for difficult locations, in particular for the first Submarine broadcast. It was mounted on the periscope. Reference NMFFTV Bradford. Also said to be mounted version on wall at Alexandria Palace