

European and American Television Cameras

	Make	EMI
	Model	203
	Country	UK
	Camera Type :	
	Studio monochrome Image Orthicon camera	
Camera Description :		
Slim camera with diecast front and rear castings, aluminum side panels. Large housing for iris motor.		
The camera pictured is serial No. 101, the first production camera.		

Data	Data
Tube details	3 or 4.5 inch Image Orthicon 9565
Lens details	5 (1) position turret, for TV88 lenses
Sig. to Noise	37 to 39dB.
Sensitivity	As per tube used
Resolution	Better than 600 lines
Viewfinder	7" integral fixed.
Camera cable	BICC Mk4b to 1000ft.
Power supply	90-140 or 205-255V. 50/60Hz. 950VA.
Line standards	405/50 625/50 525/60
Drives or locking	4 standard mono pulses.
Weight *	48.6Kg. 4.5" I.O. 39.6Kg. 3" I.O.
Colours	Green & light green (2)
Dimensions *	521H x 394W x 788L mm.
Date designed	Before 1959 (4)
	*Excluding Lenses

Associated equipment

CCU type 213/2. PSU type 223/2. Camera controls panel type 215, OCP type 881. Matching picture and waveform monitors type 301 & 302. Range of matching studio equipment. Periscope hood type 859. Diascope type 854.

Features

5 lens turret with adapter in place of tube access plate. Early use of "joystick" Iris with black level controls. 3" I.O. Version available model 203/5. A CPS Emitron version was also offered.

General description

Modern camera with good range of facilities, printed circuit plug in modules, integral viewfinder, tube change from front. A total of 83 valves were used.

References

WW advert Mar. 1960 Page 107. (4) A picture of the prototype appeared in "Practical Television" by TJ Morgan, facing page 14.

History

Television, August 1960 reports that ABC television have ordered 15 channels for their Teddington studios. Dickey Howett writes in "Zerb" autumn 1994 page 50 "The green machine". The 203 ceased production in 1965 with an estimated 350 being sold.

Versions

Type 203/2 3-inch I.O. 240v 50hz version
 Type 203/5 4.5-inch I.O. 115v 60hz version
 Type 203/6 4.5-inch I.O. 240v 50hz version
 Type 203/7 multi-standard version
 Type 203/8 3-inch I.O. 115v 60hz version

Notes

- (1) The fifth turret position was for tube access; a lens adapter could be fitted and diascope was often fitted in that position.
- (2) The BBC had the control room equipment painted gray. Also the CCU and PSU were modified to be BIG plug in units for quick change on failure.
- (3) Later cameras had the focus control moved to the rear of the camera and a 90° offset to the camera cable connector.



Front view showing the 5 turret stations