

European and American Television Cameras

	Make :	Marconi
	Model :	Mk 4 BD863 B3096
	Country	UK
	Camera Type :	Studio Image Orthicon
	Camera Description :	Slim Design with prominent handles on Front and rear.

Data

Tube details 1 x 4.5" Image Orthicon (3" option)
Len details 4 position turret, TV88 mounting
Sig. to Noise 40dB.
Sensitivity See tube data
Resolution More than 400 lines
Viewfinder 7" Fixed 50ft lamberts brightness
Camera cable BICC Mk4b 1000ft.

Data

Line standards 405/50 625/50 525/60
Colour standards Monochrome
Drives or locking Mono Pulses (4)
Weight * 98lbs
Colours Hammer finish gray
Dimensions * 430H x 300W x 670L mm.
Date designed 1957/8 Prototype seen in 1958
 Television magazine.

Power supply 100-125 & 200-250v 50-60Hz.800VA Dates used

1959 to about 1970 (UK)

*Excluding Lens

Associated equipment

CCU, PSU, remote control panel, picture & waveform monitor and a full range of studio equipment. The PSU and CCU are each contained in a standard Mk4 case. In common with the other camera equipment in this series, the PSU and CCU fit together in a 19" rack.

Developments

High stability circuits, minimizing adjustments. Image orbiting system. Ergonomic carrying handles. Plug in printed wiring modules in camera & CCU.

General Description

A classic turret camera, slim and elegant. Solid mechanics. IO tube was changed from the front. Integral viewfinder, plug in circuit modules, Triple standard operation. Edge lit Perspex control panel. Servo iris control.

References

Marconi 1966 product Catalogue shows Mk4s in use by ABC TV in Brisbane Australia. The design of a 4.5" Image Orthicon Camera Channel. By G.E. Partington. SMPTE Volume 69 Feb. 1960. Photo Reference, Page 99 WW February 1961.

Notes

Television May 1960 reports that Associated Television Ltd. have ordered 5 channels for the Wood Green studios. Televit Moduison, August 1960, reports that 3 channels have been ordered by Elktrim for their Warsaw studios. Tom Mayer states in IEE Colloquium that the world's largest user of Marconi (MK4s) was the US navy. This is also reported in WW June 1963, which states that four cameras were used in a system to record the landing of aircraft on the flight deck of aircraft carriers. 114 were sold in the UK and 802 exported a total of 916. As it is thought that over 950 were made surprisingly few survive, at least in the UK.

Used by

World wide use, most successful camera that Marconi produced. It was used extensively by the BBC, Granada and other UK ITV companies, The US Navy, ABC (Australia), RAI used them to televise the 1960 Rome Olympic Games, in an RAI picture, and it had a metal sun shield covering the top of the camera.