


## European and American Television Cameras

	<b>Make</b>	<b>Marconi</b>
	<b>Model</b>	<b>MkV B3100</b>
	<b>Country</b>	<b>UK</b>
	<b>Camera Type :</b> Image Orthicon, Studio or outside broadcast.	
	<b>Camera Description :</b> Slim Design with prominent handles on both sides. Robust construction with front and rear magnesium castings. Cue lamp on top of camera.	

Data		Data	
Tube details	1 x 4.5" Image Orthicon	Line standards	625/50 525/60
Lens details	Zoom, pulley wheel mount (1)	Colour standards	monochrome
Sig. to Noise	40dB.	Drives or locking	MS MB LD FD mono Pulses
Sensitivity	See tube data	Weight *	44.4Kg.
Resolution	More than 400 lines	Colours	Two tone gray
Viewfinder	7" tilts B3102 high brightne ss. (2)	Dimensions *	450H x 248W x 690L mm.
Camera cable	BICC Mk4b 600m.	Date designed	Advert April 1965
Power supply	100-125 & 200-250v 50-60Hz.450VA	Dates used	

\*Excluding Lens & Viewfinder

### Associated equipment

The CCU B3103 is 7U high and contains the PSU, remote control panels B3104, and a full range of matching studio equipment.

### General description

Solid state, apart from the EHT rectifiers and stabilizers, Image Orthicon camera with tilting viewfinder and side carrying handles. The front of the camera drops down to allow tube changing and access to the filter wheel. The family construction style matches the MkVI Plumbicon® camera and the MkVII colour camera. Claimed to be smallest & lightest Image Orthicon camera.

### References

Marconi 1966 product catalogue. Wireless World photo April 1965.

### Innovations

Highly stable final development of the Image Orthicon camera by Marconi. Fully screened Yoke. Combined CCU & PSU. Plug in solid state modules in camera & CCU. Power at 220V DC is supplied to a DC to DC converter in the camera head.

### History

49 Marconi MkVs were sold in the UK and 369 exported a total of 418.

### Notes

- (1) The pulley wheel mount with its quick release mechanism and standard electrical interface was used on several cameras of the period. (Marconi, EMI, Pye and others)
- (2) The 7" viewfinder, B3102/B3128, is used on the MkV, MkVI, MkVII, and with some modifications on the MkVIII and Mk IX cameras. It has a high brightness of 2150 lumens and can resolve over 600 lines. It has proved to be reliable in service considering they are all 30+ years old now. Some of the early CRTs have a defect with the tube faceplate bonding. Over time this leads to spots between the tube glass and the front glass.

### Used By

Mainly overseas, NBC, ABC TV, TTT & BBC, Thames TV had an OB unit with 6 Marconi Mk5's in 1970.



B3103 CCU