

Large-screen Colour Projector Type V 6710

THE Projector Type V 6710 projects a colour picture on to a screen and can provide comfortable viewing for an audience of 2000.

Features

Operation from RGB or encoded colour signals. Suitable also for monochrome.

Long-term reliability and performance stability.

Suitable for continuous operation.

Rapid fault rectification.

Ease of transportation with minimum effort.

Continuous attendance by a skilled operator is unnecessary.

High standard of overall registration, definition and colour rendition.

EOUIPMENT

Pictures are derived from three 5 in. projection tubes each mounted in a conventional Schmidt optical system. The three optical assemblies are mounted on a common rigid bed which eliminates unwanted movement and ensures precise re-location after removal. Replacement of a cathode-ray tube is of such simplicity that normal operation can be re-established within three minutes of a tube failure.

The electronic circuits are housed in three similar cabinets placed side-by-side beneath the optical bed. The centre cabinet contains the 50 kV generator which is oil-immersed and sealed.

Circuits use printed wiring boards mounted in easily withdrawable trays allowing rapid replacement in the event of failure. Careful circuit designs and choice of components ensures long-term reliability and performance stability. All supply voltages are regulated and high temperature silicon rectifiers are used throughout.

Forced-air cooling is used to maintain the tube faces at the correct temperature and to cool the cabinets.

For transportation the projector breaks down into basic units none of which weighs more than 200 lb.

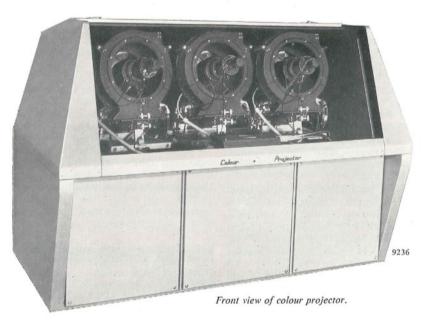
Data Summary

Cathode-ray tubes: 5 in. English Electric Valve Co. Type T 929. Anode V, 50 kV; spot diameter 0·004 in. at 500 μA mean current.

Optical performance

Optic	Throw distance	Picture size	Peak-white brightness
X23·5	15 ft 6 in.	7 ft 4 in.×5 ft 6 in.	30 ft Lamberts
f/0.9	470 cm	220 cm × 165 cm	300 Lux
X38	25 ft	12 ft×9 ft	13.5 ft Lamberts
f/0.7	760 cm	$365 \text{ cm} \times 274 \text{ cm}$	135 Lux
X57	37 ft 6 in.	18 ft×13 ft 6 in.	6 ft Lamberts
f/0.7	1140 cm	548 cm×411 cm	60 Lux

NOTE: Picture size can be varied by up to 10% either side of the figure shown for each optic without significant loss of performance, with consequent variation in peak-white brightness.



Positional scanning errors: Less than 0.1% of height or width.

Scanning standards: 405, 525 and 625-line. Horizontal resolution: Not less than 500 lines/picture height over central area, 400 lines elsewhere.

Registration: Max. error in positioning outer tubes relative to centre tube, less than 0.1% of picture height or width.

Input signal: RGB vision 0.7 V in 75Ω . Mixed sync. 2 V in 75Ω . Input attn. accommodates variations of -12 dB to +6 dB. Coded, standard NTSC signal, nominal level 1 V composite picture sync. ratio 7:3 in 75 Ω .

Dimensions:

Height 4 ft 3 in. (129·5 cm)
Width 6 ft 1½ in. (187 cm)
Depth 2 ft 9 in. (83·3 cm) sides or,
3 ft 3 in. (99 cm) centre.
Weight 1000 lb (454 kg) approx.

Marconi

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