



8½ in. (22 cm) Picture Monitor Type V 6120

THIS high-quality monitor combines excellent performance, reliability and picture brightness with small overall dimensions and rugged construction.

Features

- Robust mechanical and electrical design.
- The monitor accepts composite or non-composite signals on 405, 525 or 625-line systems.
- Modular construction, using printed-wiring boards, gives maximum serviceability.
- Transductor-stabilized power supply.
- Black-level clamp or d.c restorer selected by switching.
- Extra gain to allow for cable equalization.
- Hum cancelling circuit in video input stage.
- Flywheel or direct-lock line time base.

CONSTRUCTION

The monitor has an unusually rigid framework. This houses a number of easily removable modules most of which are in the form of printed boards. The faceplate of the 8½ in. (22 cm) electrostatically focused tube is easily accessible for cleaning by removal of the safety glass. Top, bottom and side covers are easily removable. All external connectors are at the rear of the unit and all operating controls on the front panel.

CIRCUIT

The vision input is amplified by a cascode stage with a hum filter which minimizes the effects due to differences in the earth potential between the monitor and the picture source. The signal is clamped at the grid of the shunt-regulated vision output stage.

The power supply is transductor-regulated.

Data Summary

Inputs:

- (a) 100–125 V or 200–250 V, 50 or 60 c/s. single-phase a.c, 110 VA.
- (b) Composite or non-composite vision from –12 dB to +6 dB rel. to 1 V p-p, white positive.
- (c) Composite sync. down to 1 V p-p (when required).

Picture size: 7 in. (18 cm) × 5¼ in. (13.3 cm) with round corners, or 6 in. (15 cm) × 4½ in. (11.5 cm) rectangular.

Highlight brightness: Up to 50 ft lamberts.

Brightness hum: Less than –55 dB relative to p-p picture component at reference white.

Positional hum: Less than 0.1% of picture width or height.

Positional scanning errors:

Less than ±2% of picture height or width.

H.F response: ±0.25 dB up to 10 Mc/s.

L.F response: Clamped.

Input impedance: High with bridging output.

Dimensions:

- Height 8 in. (20 cm)
- Width 9 in. (23 cm)
- Depth 1 ft 7 in. (48 cm)
- Weight 40 lb (18 kg)



Marconi

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