



Picture Monitor Type V 6140 (21-inch)

TYPE V 6140 is a general-purpose monitor particularly suitable for educational television and similar demonstration applications, when a number of people need to watch one monitor.

Features

Simple, reliable circuits using long-life close-tolerance valves.
405, 525 or 625-line standard of operation.
Easy access to tube and safety glass for cleaning purposes.

CONSTRUCTION

The monitor is built to professional standards. It is made up of a number of removable units fitted to a steel frame-work.

CIRCUITS

The signal is applied to a variable-gain three-stage amplifier and to the sync. separator stages. The gain of the amplifier is adjusted by the CONTRAST control.

To remove noise, hum and other l.f. disturbances the amplifier is clamped at line frequency, the clamp pulse being derived from a generator driven by separated line synchronizing pulses.

The field synchronizing pulses are separated from the composite synchronizing signal and used to trigger the field scan generator.

To ensure stable operation of the line scan circuits with 'noisy' signal inputs, a fly-wheel sync. circuit is used.

The e.h.t. voltage for the final anode of the picture is obtained by rectifying the flyback pulse of the line scan sawtooth voltage. A built-in power supply furnishes h.t. at 250 V.

Data Summary

Inputs:

(a) Mains, 100-125 and 200-250 V (in 5 V steps), 50 or 60 c/s a.c. at 130 V.A.

(b) Vision, composite or non-composite -10 to +6 dB rel. to 1 V p-p. Two bridging inputs. Switched termination.

Picture size: 19 × 15 in. (48 × 38 cm).

Highlight brightness: 40 ft-lamberts.

H.F. response: ±0.5 dB to 9 Mc/s; -3 dB at 10 Mc/s; -6 dB at 11 Mc/s.

Positional hum: Maximum movement not greater than ±0.125% of picture height and width.

Positional scanning error: Maximum of ±2% of picture height and width, and well distributed.

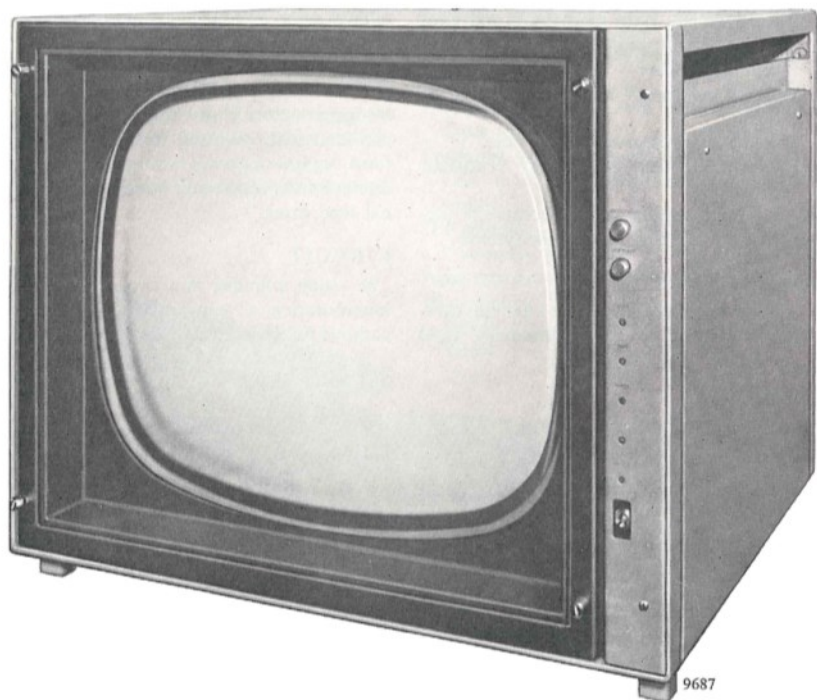
Dimensions:

Height 1 ft 8½ in. (53 cm)

Width 2 ft 3 in. (69 cm)

Depth 2 ft (61 cm)

Weight 100 lb (45 kg)



Marconi

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