14 in. Picture Monitor Type V 6110 (BD 879)

TYPE V 6110 is designed to meet the need for a general-purpose monitor suitable for both industrial and programme applications. Maximum flexibility in application and easy access to all components is afforded by the form of construction employed. Particular care has been taken to provide adequate component protection and ventilation for continuous industrial use. A 14-in. (35 cm) aluminized picture tube is used.

Features

Robust design, both mechanical and electrical, to withstand continuous demand of industrial use.

Easy accessibility of all components.

Excellent air flow ensured by ventilated chassis.

Accepts composite or non-composite signals on 405, 525, or 625-line systems.

CONSTRUCTION

The monitor is housed in an all-metal cabinet consisting of a rigid framework with inset panels finished with grey hammered enamel.

The front plate, which has a hinged cover over the control knobs, is easily removable to permit rapid replacement of the display tube.

A horizontal-tray chassis is used and all components are mounted below large vents in the chassis, ensuring excellent air flow. Convenient lifting points are provided by the vents at the top of the side covers.

The feet are so designed as to permit the monitor to be mounted on a Marconi anti-vibration tray.

Input sockets, termination switches, etc., are recessed into the lower rear panel.

Two pairs of coaxial input sockets are provided, one pair for vision inputs (composite or non-composite) and bridging output, and another pair for sync. input and bridging output. Both bridging outputs are provided with switched 75-ohm terminations. Another switch is used to change from internal sync. separation to separate external sync. input.

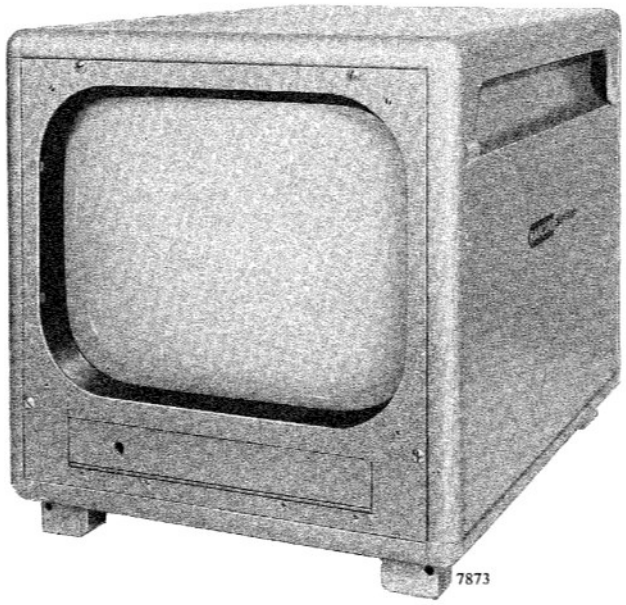
CIRCUIT

The vision amplifier is a two-stage circuit preceded by a gain-controlled stage. A cathode follower feeds the signal to the display tube. A line-by-line clamp is incorporated.

A sync. amplifier feeds the cascode sync. separator, excellent interlace being ensured by an additional double-triode field pulse separator.

The field timebase circuit employs a triode-pentode. The triode portion acts as a blocking oscillator and the pentode section as an output stage, having a frequency-conscious feedback network to ensure adequate linearity. The line time-base circuit comprises a blocking oscillator and direct drive output stage, adequate EHT regulation being provided by a DC feedback circuit.

The monitor has been designed to ensure freedom from mains frequency interference.



Data Summary

Vision input: Standard composite or non-composite signal. Picture component 0·25 to 1·5 V p–p, white positive.

Sync. input: Mixed sync. 0·5 to 4 V p–p, negative-going pulses.

HF response: ±0·5 dB up to 6·5 Mc/s; −3 dB at 8 Mc/s.

LF response: Clamped.

Input impedance: 75 Ω or high impedance with bridging.

Scan linearities: Better than ±2% positional error.

Power supply: 95 to 125 V or 190 to 250 V, 50–60 c/s AC mains.

Power consumption: 150 VA.

Picture size: 11⅜ in. × 8¾ in. (29·5 × 22·2 cm), rounded corners.

Highlight brightness: Up to 40 ft lamberts.

Dimensions:

Height 14½ in. (37 cm)
Width 14¾ in. (38 cm)
Depth 21 in. (53 cm)
Weight 55 lb (25 kg)

Marconi

Marconi's Wireless Telegraph Company Limited
Marconi House, Chelmsford, Essex
Telephone: Chelmsford 3221 · Telex: 1953
Telegrams: Expanse Chelmsford Telex