14 in. (36 cm) Picture Monitor Type V 6112

TYPE V 6112 is 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. (26 cm) aluminized picture tube is used.

Features

Robust design, both mechanical and electrical, to withstand continuous demand of industrial use.
Tube face is proof against deposition of dust.
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 an exceptionally 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.

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.

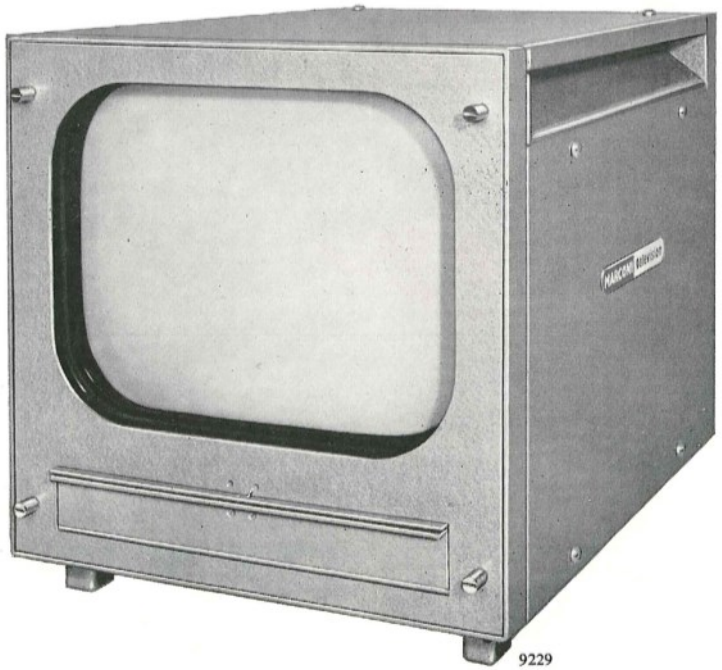
CIRCUIT

The vision amplifier is a two-stage circuit incorporating 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 and clipper.

The field time base circuit employs a triode and pentode. The triode acts as a blocking oscillator and the pentode as an output stage, having a frequency-conscious feedback network to ensure adequate linearity. The line time-base circuit comprises a blocking oscillator and transformer-coupled output stage, adequate e.h.t regulation being provided by a d.c feedback circuit.

The monitor has been designed to ensure satisfactory operation from asynchronous mains when required.



9229

Data Summary

Vision input: Standard composite or non-composite signal. Picture component 0·35 to 2 V p–p, white positive.
Sync. input: Mixed sync. 0·5 to 4 V p–p, negative-going pulses.
H.F response: ±0·5 dB up to 6·5 Mc/s; −3 dB at 8 Mc/s.
L.F response: Clamped.
Input impedance: 75 Ω or high impedance with bridging.
Scan linearities: Better than ±1½% positional error.
Power supply: 100 to 125 V or 200 to 250 V 50–60 c/s, single-phase a.c.
Power consumption: 150 VA.
Picture size: 11⅛ in. × 8¾ in. (29·5 × 22·2 cm), rounded corners.
Highlight brightness: 45 ft lamberts min.
Dimensions:
Height 14½ in. (37 cm)
Width 14¾ in. (38 cm)
Depth 21 in. (53 cm)
Weight 55 lb (25 kg)

Marconi

The Marconi Company Limited
Closed-circuit Television Division, Basildon, Essex
Telephone: Basildon 22822 · Telex: 1964
Telegrams: Expanse Basildon Telex