



## 8½-inch Picture Monitor Type BD 889

THIS extremely compact monitor of very high quality is for industrial and other applications where reliability, high brightness level and small dimensions are important. It is particularly useful for stacking in horizontal and vertical groups.

### Features

Robust design, from both mechanical and electrical viewpoints, to withstand long periods of continuous use.

Composite or non-composite signals displayed from 405, 525 or 625-line systems.

Unit construction, using printed-wiring boards, gives maximum flexibility for servicing.

Circuits are as simple as possible, consistent with good performance, and only 13 valves are employed.

Switchable back-porch clamp or DC restorer incorporated.

Adequate gain to equalize input cable losses. Hum-stopping circuit in video input stage. Flywheel line timebase.

### EQUIPMENT

The 8½-inch (22 cm) electrostatically focused tube is easily accessible for cleaning of the face and safety glass, and clip-in side covers are quickly removed to examine the components and printed-wiring boards. All connections are at the rear of the unit and a handle is provided for withdrawal of the monitor. All controls are on the front panel.

The vision input is amplified by a cascode stage with a hum filter which minimizes difficulties due to differences in earth potential of the monitor chassis and the source. The line timebase is of the flywheel sync. type but the line output stage can also be locked to external sync. pulses. The vision output stage is shunt-regulated and has clamping at its grids. An internal power supply is provided and is regulated against mains variations.

### Data Summary

#### Inputs:

- (a) 100–120 V or 200–240 V, 50 or 60 c/s, single-phase AC.
- (b) Composite or non-composite vision from  $-12$  dB to  $+8$  dB rel. to 1 V p-p, white positive.
- (c) Composite sync. down to 1 V p-p, (where required).

**Picture size:** 7 in. (18 cm)  $\times$  5½ in. (13.3 cm) with round corners or 6½ in. (16.5 cm)  $\times$  4¾ in. (12 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  $\pm 1\%$  of picture height or width.

#### HF response:

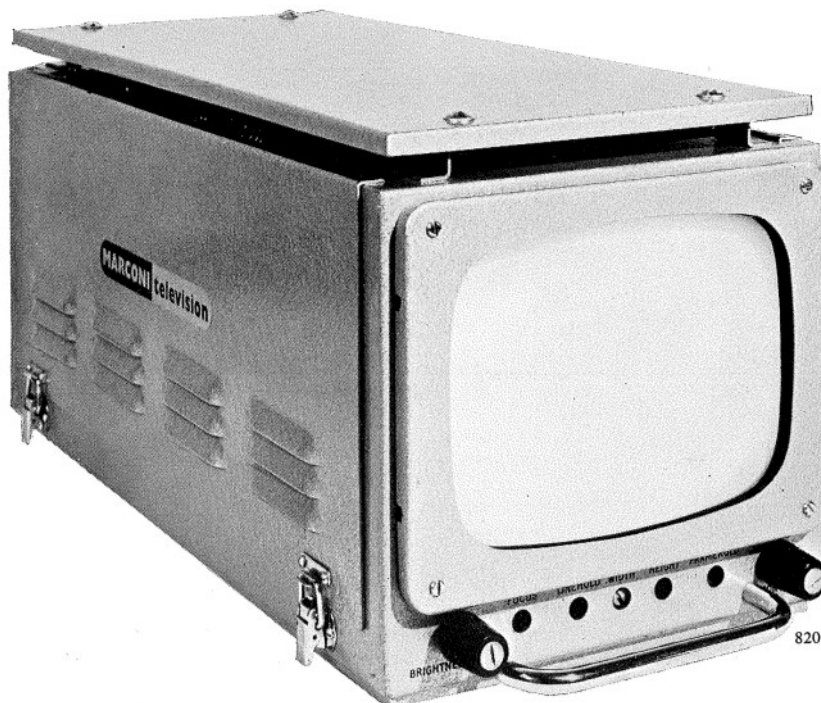
- $\pm 0.25$  dB up to 10 Mc/s.
- $- 3$  dB at 13 Mc/s.

**LF response:** Clamped.

**Input impedance:** 75  $\Omega$  or bridging input.

#### Dimensions:

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



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