



## Transistor Outside Broadcast Mixer Type BD 956B and Monitor Type 1701

BEFORE going into production, models of these units were extensively tested in various parts of the world and under widely differing climatic conditions. The excellent results of these trials justified the Company's introduction of transistors into a.f. amplifier and control design. The new mixers are light, versatile and self contained equipments in strong portable cases. They are also suitable for many other applications and mountings, being designed as 19 x 5½ in. (48 x 13.3 cm) standard panels.

### Mixer Type BD 956B

This unit has:

- (a) Four low-level inputs, suitable for microphones or transcription heads, switchable for inputs of either 30, 150 or 600 ohms.
- (b) One high-level input switchable to any channel.
- (c) One sub-unit input.

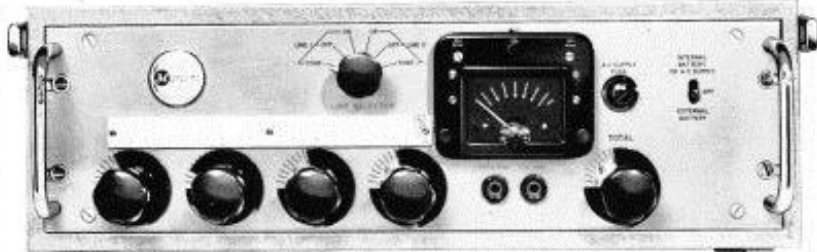
It incorporates the following features:

- High level mixing.
- Faders with moulded tracks for noise-free operation without maintenance.
- Two alternative output lines, one of which can be used as a cue line.
- Monitoring of both output lines by v.u. or p.p. meter and headphones.
- Built-in line up oscillator.

### Monitor Type 1701

This transistor portable loudspeaker monitor is designed primarily for use in conjunction with the Mixer Type BD 956B. It is used for aural monitoring of the programme or cue-line.

The unit incorporates a high-grade elliptical speaker mounted behind the front panel. A rigid chassis carries the larger components and controls and a printed board, attached to it, the smaller components and transistors. The whole is contained in a metal carrying case which matches that of



Outside Broadcast Mixer Type BD 956B.

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the Type BD 956B Mixer. Alternatively the unit may be mounted in a standard 19 in. (48 cm) equipment bay.

### Power supplies

The Type BD 956B normally operates from a battery of dry cells. These have a life of over 12 hours under continuous operation. For prolonged broadcasts the unit also incorporates a mains supply unit and provision for operation from an external 12 V battery. If the mains are used, a circuit is incorporated which automatically switches to batteries should the mains supply fail.

The Type 1701 has a built-in mains supply unit and provision for operation from an external 12 V battery.

### Data Summary

#### Type BD 956B

**Input impedance:** Low-level, 30, 150 or 600  $\Omega$  balanced or unbalanced. High-level, 600  $\Omega$  balanced or unbalanced. Sub-unit, 600  $\Omega$  unbalanced.

**Output impedance:** 75  $\Omega$  balanced or unbalanced. Suitable for line impedances 100-1000  $\Omega$ .

**Maximum input level:** -40 dBm on low-level input, +20 dBm on high-level input.

**Maximum output level:** +20 dBm in to 600  $\Omega$ .

**Maximum gain:** 95 dB from low-level input, 35 dB from high-level input, 10 dB from sub-unit input.

**Frequency response:** +1 dB, 30 c/s - 15 kc/s.

**Oscillator frequency:** 900 c/s.

**Harmonic distortion:** Less than 1% r.m.s. at maximum output, above 60 c/s.

**Noise output:** Less than -25 dBm at maximum gain.

**Power supply:** 100-125 V, 200-250 V, 50 c/s, single-phase a.c.

**Power consumption:** 5 VA.

**Batteries:** 9 dry cells or 12V car battery. Consumption 120 mA.

#### Dimensions:

Length 21½ in. (54 cm)  
Height 6½ in. (16.5 cm)  
Depth 11 in. (28 cm)  
Weight (including batteries and mains supply unit) 25½ lb (11.6 kg)

#### Type 1701

**Input impedance:** (a) 600  $\Omega$ , balanced, (b) 10 k  $\Omega$ , balanced.

**Sensitivity:** -27 dBm into 600  $\Omega$  input, +3 dBm into 10 k  $\Omega$  input, for 2W output.

**Maximum output level:** 2W into 3  $\Omega$  resistive load.

**Frequency response:** +1 dB 60 c/s-15 kc/s.

**Harmonic distortion:** Less than 1% r.m.s. at max. output, above 60 c/s.

**Noise level:** 70 dB below max. output level.

**Power supply:** 100-125 V, 200-250 V, 50 c/s single-phase a.c.

**Power consumption:** 15 VA approx.

**Dimensions:** Length 21½ in. (54 cm)  
Height 6½ in. (16.5 cm)  
Depth 11 in. (28 cm)  
Weight 17 lb (7.7 kg)

### Marconi

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Loudspeaker Monitor Type 1701.

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