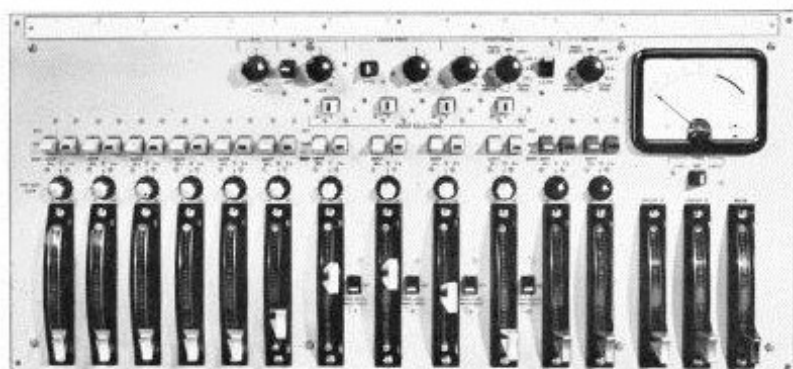




Sound Mixer Type BD 972 FOR TELEVISION



9295

THE BD972 Sound Mixer has been designed for television outside-broadcast units and small television studios. It is mounted in a box, but the front panel and rear connector block can easily be removed for mounting in the customer's own desk. The mixer is fully transistorized.

FACILITIES

- 12 microphone channels complete with input impedance selector, pre-set gain control and plug-in quadrant fader.
- Two group controls, one for six low-level channels and one for two low-level channels. The remaining four channels will accept either high or low-level inputs and can be switched separately to either group.
- Two main-programme outputs, one at 75 Ω and one at 600 Ω .
- One 'clean feed' output which can be fed from either group or the whole programme output at 75 Ω .
- Programme meter, either v.u. or peak-programme, with selector switch.
- One monitor selector, with gain controls and loudspeaker-dim.
- Public-address facility on every channel.
- Tone source included.
- 'Add-on' echo unit.
- Pre-fade listen facility.
- External cue on two inputs.

EQUIPMENT

The desk is functionally split into 6+6 inputs with a fader on each group. The first six microphone inputs are always fed to group A and the last two microphone inputs

are always fed to group B. Under normal conditions channels 7, 8, 9 and 10 are fed as low-level channels into group B. It is possible, however, to switch any of these channels to group A and also each one of these channels can be switched to accept a high-level input. One single auxiliary low-level input can be switched to input 7, 8, 9 or 10.

Each input has a pre-set gain control of 30 dB. This control is followed by a plug-in quadrant fader.

The two group faders and the main fader are of the same type as used for the channel faders and can be interchanged.

Two outputs are available, one at 75 ohms and the other at 600 ohms. For outside-broadcast use the 75-ohm source can be used to feed a non-loaded 600-ohm line and the 600-ohm source is then used to feed the communication unit for distribution to cameramen, etc. When the mixer is used in a studio the 600-ohm output is used to feed the programme line and the 75-ohm source is then fed to the communication unit.

METERING AND MONITORING

Either a peak-programme or v.u. meter can be fitted and this meter can be switched to various points. The tone source is used as a calibrating signal for the p.p. meter and can also be switched to either output line.

A monitoring output at zero level and 600 ohms is available for monitoring one of several sources. A gain control and loudspeaker-dim switch are provided and a monitoring point is available for listening on 'phones'.

Data Summary

Inputs

D.C. power: 24 V, 2.5 A.
Sound: Maximum peak input levels, -40 dBm low level, +10 dBm high level.
Input impedance 30, 150 or 600 Ω low level; 600 Ω high level.

Outputs

Sound: Maximum peak output +20 dBm into 600 Ω . Normal output -4 dBm.
Output impedances:
1 main output at 75 Ω .
1 main output at 600 Ω .
1 clean feed output at 75 Ω .
1 public-address output at 600 Ω .

Frequency response:

± 2 dB from 30 c/s to 15 kc/s,
 ± 0.5 dB from 60 c/s to 8 kc/s.

Distortion (at 60 c/s or 1 kc/s):

- (a) 600 Ω output feeding into 600 Ω :
0.5% +4 dBm output,
1% +20 dBm output.
- (b) 75 Ω output feeding into load between 150 and 1,000 Ω :
1% +4 dBm output,
4% +20 dBm output.

Gain (max.): 104 dB ± 2 dB.

Noise level: Not more than -50 dBm with 70 dB gain. -70 dBm with main fader closed.

Dimensions:

Length 24 $\frac{1}{8}$ in. (611 cm)
Width 11 $\frac{1}{8}$ in. (280 cm)
Height 10 $\frac{1}{2}$ in. (255 cm)
Weight 75 lb. (34 kg)

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