



Transistorized Sound Consoles

THE RECENT field trials of the Outside-broadcast Transistorized Mixer Type BD 956 have shown that transistors used in broadcasting equipment will operate satisfactorily and reliably in all climates. Consequently the Company has decided to go ahead with the manufacture of studio control consoles also employing transistors.

Their use leads to considerable improvements in economy of operation and maintenance, and in reduced size and weight. The latter result is achieved not merely because of the small size of the transistors themselves, but because the very small amount of power they consume leads to a very much reduced power unit.

These consoles are built up on a unit system, using plug-in amplifiers set side-by-side in a functional console frame. This arrangement permits production of different consoles simply by extending the frame and using further modules as required. Thus, although three types of consoles are listed below, this number could be increased to suit a wide range of client's requirements.

The design of these consoles is based on functional simplicity and maintenance-free operation. With this in mind, only four types of basic modules are employed:

1. *Pre-amplifier unit*, used for all input channels. This combines in one unit, only 2¼ in. (7 cm) wide, the complete facilities of a microphone input, including a fader, cue press-button and light, warning light, loud-speaker muting, and a switch for high- or low-level input.
2. *Main programme amplifier unit*. This contains a main programme amplifier with one or two outputs, a VU or peak programme meter, and full cueing, muting and warning facilities. Width 5½ in. (14 cm).
3. *Monitoring amplifier unit*. This gives pre-fade listening by headphones on all channels, using a selector switch. Width 2¼ in. (7 cm).
4. *Power supply unit*. This provides a smoothed 12 V DC for transistor supply, and 12 V AC for signalling. Width 4¼ in. (11 cm).



8177

FACILITIES OF TYPICAL CONTROL CONSOLES

Description	Channels	Outputs	Units			Notes
			Pre-amplifier	Main Prog. Ampl.	Monitoring Ampl.	
Announcer's console	3	1	3	1	1	1
Studio control console	6	2	6	1	1	1
Dramatic control console	10	2	10	1	2	1

With echo facility on any channel

Performance: The overall target performance of these novel consoles is similar in all respects to equivalent earlier valve-type amplifiers and control equipment.

Features

Input channels switchable: low-level 30-ohms, low-level 600-ohms, high-level 600-ohms.

Light cueing on all channels.

Warning and muting facilities on all channels.

Visual monitoring by VU or peak programme meter.

Aural monitoring of output channel by headphones and provision for feeding an external loudspeaker amplifier.

Moulded carbon-track faders with 180° movement and self-evident dial.

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