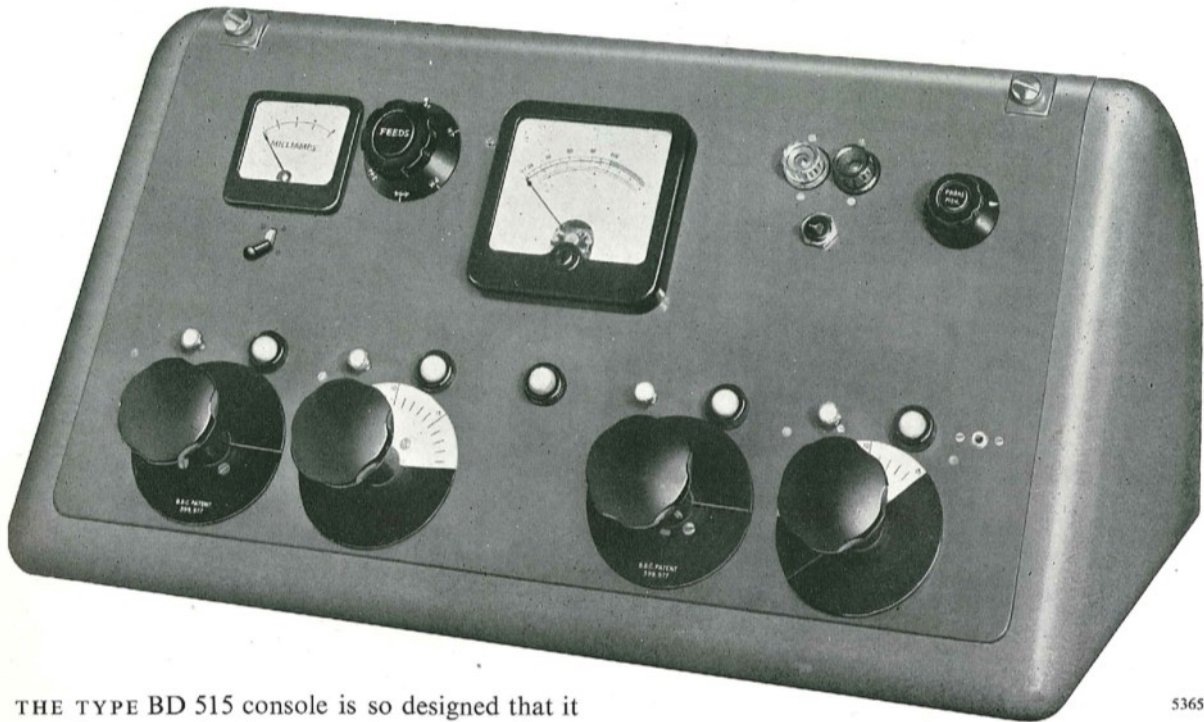




Studio Control Console *Type BD 515*



5365

THE TYPE BD 515 console is so designed that it may be conveniently mounted on an ordinary table, although a more attractive installation is provided by mounting it on the special desk Type BD 549A. This latter is supplied as a separate item and is illustrated overleaf.

The console is constructed of rolled metal with cast end-plates and framework. All the controls, indicator lamps and the meter, are mounted on the sloping front panel which is hinged to give complete access to the inside of the console. The power unit is contained in a separate case.

FEATURES

High-quality programme control of up to four low-level sources.

Three alternative circuit arrangements:

- (a) As an independent studio control console.
- (b) As a four-channel high-level mixer feeding a main control unit.
- (c) As two independent high-gain amplifier chains.

Plug-in amplifier units greatly facilitate servicing.

Aural and visual monitoring.

Automatic loudspeaker muting.

Pre-fade listening.

Faders fitted with self-evident dials.

CIRCUIT ARRANGEMENTS

As 'A' above. Three amplifiers with their faders are connected as a three-channel high-level mixer. In addition the input to one channel is switched

to allow the choice of either of two microphones. The fourth fader provides a main gain control and the fourth amplifier is used as the main programme amplifier feeding to line at a maximum level of +18 dbm.

As 'B' above. The four amplifiers with their faders are connected as a four-channel high-level mixer which delivers an output level of approximately -20 dbm to a main control desk. One

input can be switched to allow the choice of either of two microphones.

As 'C' above. This consists of two separate chains of two amplifiers in cascade. Either channel can handle a separate programme from its microphone and provide an output level of up to +18 dbm maximum. In addition the input to one channel is switched to allow the choice of either of two microphones.

DATA SUMMARY

Input impedance: 30, 150, 300, 600 or 5,000 Ω balanced or unbalanced, and 10,000 Ω for bridging a 600 Ω source.

Output impedance: 150 or 600 Ω balanced or unbalanced.

Normal output level: +4 dbm at less than 0.5% distortion from 60 to 15,000 c/s.

Maximum output level: +18 dbm at less than 1.0% distortion from 60 to 15,000 c/s.

Maximum gain: 102 db.

Frequency response: ± 2 db from 20 to 20,000 c/s.

Noise level: 70 db below maximum signal (at normal operating gain).

Power supplies: 100-130 V and 200-250 V, 40-60 c/s, single-phase AC.

Power consumption: 60 W.

Dimensions:

	Height	Width	Depth	Weight
<i>Console</i>	12 in. (30.5 cm)	25 in. (63.5 cm)	18 in. (45.7 cm)	77 lb (35 kg)
<i>Power Unit</i>	8½ in. (21.5 cm)	10 in. (25.4 cm)	8¼ in. (20.9 cm)	30 lb (14 kg)



The console is here shown mounted on the special desk Type BD 549A, the right-hand pedestal of which houses the power unit. When the control panel is lowered, the centre section of the desk can be pulled forward to provide a recess for the fader knobs. The desk microphone is the BBC-Marconi Type AXBT.

Marconi

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