



Communication Equipment for Television Studios

Communication Unit Type BD 887

This transistor amplifier provides flexible communication facilities to supplement the basic camera-to-control circuits provided with Type BD 863 Camera Channels. The unit is housed in a case which can accommodate up to ten plug-in amplifiers and may be arranged for studio or mobile use.

FACILITIES

Programme sound (PS) to all cameras and control positions.

Production talk-back (TP) from the producer and others to cameras, camera control positions etc.

Mixed camera talk-back (MCTB) for the producer, technical director and others which may be routed to all camera control positions for omnibus working.

Mixed control room talk-back (MCRTB) which can be originated from all camera control positions working omnibus or from a centralized camera control position.

Three circuits may be connected by internal relays to the TB output for calling telecine rooms and the like.

TB output may be connected by internal relay to a studio floor rehearsal loud-speaker.

Cue distribution to and from camera channels and vision mixer.

Talk-back Panels Type 2701

This series of panels provides local outlet points for talk-back systems. A typical unit caters for the requirements of producer, vision mixer, sound mixer, lighting controller. The facilities are arranged according

to operational requirements and the panels, which measure 8 in. \times 4 in. (20 \times 10 cm), can be fitted into other equipment and control desks to suit.

A wide variety of talk-back microphones of the plug-in type are available including moving-coil, noise-cancelling and headsets.

Lightweight headset

Designed for use by cameramen, these headsets are normally supplied with a camera channel. They have separate high-impedance earpiece circuits and a carbon micro-

phone fitted on a small boom connected into circuit by a twin jack plug.

Clear plastic ear discs are the standard supply but rubber ear pads are available as an alternative.

Lightweight headphones

These have the same earpieces as the above, supported on a single headband. Plastic ear discs are fitted. A separate circuit is connected to each earpiece and connection is by a single jackplug.



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8207

Wireless talk-back system

To overcome the restriction imposed by trailing cables a wireless talk-back system has been developed for use by floor managers and other studio staff.

The producer's talk-back is applied to a modulator which frequency-modulates a carrier between 25 and 50 kc/s. Different frequencies may be used for different studios to give complete separation. The carrier is then multiplied in frequency and radiated by a miniature transmitter unit. The receiver is a self-contained unit which may be carried in the pocket. It employs transistor circuits and uses re-chargeable nickel-cadmium batteries for power supplies. A deaf-aid type earpiece provides ample sound level with the minimum danger

of pick-up by programme microphones. The aerial is a telescoping wire of 11 in. (28 cm) maximum length.

The normal coverage provided extends to between 40 and 50 yards in all directions from the central transmission point.

Charging racks are available which are designed to take banks of complete receivers and re-charge their batteries automatically.

Talk-back Amplifier Type BD 698

The Talk-back Amplifier Type BD 698 provides facilities for talk-back over a loudspeaker where no suitable communication unit may exist. It comprises a straight-forward four-stage amplifier with one high-quality low-level speech input (talk-back) and provision for mixing-in one or

two other inputs at line level. The amplifier, which is in the form of a panel suitable for rack mounting, incorporates rectifier and smoothing equipment. It is available in two editions to work on 206–254 V or 101–121 V, 50 or 60 c/s, AC mains supplies.

Input impedance: 1.3 k Ω .

Output impedance: Less than 350 Ω .

Gain, high: 85 dB approx.

Gain, low: 50 dB approx.

Gain range: To zero.

Output: 0.75 W into 15 Ω loudspeaker,
+30 dBm into 200 Ω ,
+26 dBm into 600 Ω .

Noise and hum: -30 dBm on low-gain input; -20 dBm on high-gain input.

Communication Patching Panel Type BD 657

This panel provides six-way patching facilities for communication or cueing circuits. It consists of two rows of six 10-way sockets mounted on a standard panel, suitable for rack mounting.

Dimensions:

Height	Width	Depth	Weight
<i>Type BD 887</i>			
10½ in. (27 cm)	19 in. (48 cm)	8½ in. (22 cm)	10 lb (4.6 kg)
<i>Type 2701</i>			
8 in. (20 cm)	4 in. (10 cm)		

TALK-BACK SYSTEM

Modulator

18 in. (46 cm)	15 in. (38 cm)	6 in. (15 cm)
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Transmitter

5 in. (12 cm)	5 in. (12 cm)	5 in. (12 cm)
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Receiver

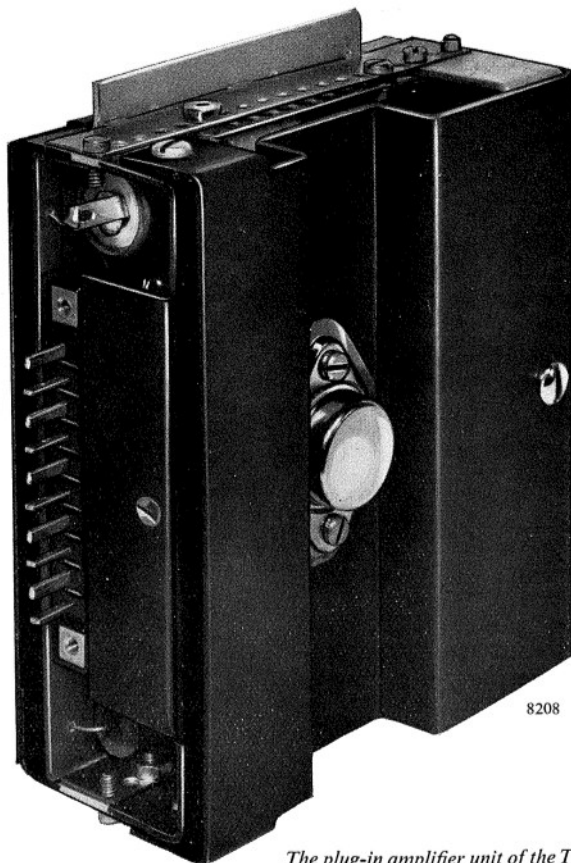
5¾ in. (14.5 cm)	2¾ in. (75 cm)	1 in. (2.5 cm)
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Type BD 698

7 in. (18 cm)	19 in. (48 cm)	8½ in. (22 cm)	19 lb (8.6 kg)
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Type BD 657

7 in. (18 cm)	19 in. (48 cm)	5¾ in. (14.5 cm)	5 lb (2.3 kg)
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The plug-in amplifier unit of the Type BD 887.

Marconi

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