



Mobile Communication Units and Consoles

Mobile Commentators' Communication Unit *Type BD 646*

ALTHOUGH DESIGNED primarily for use by a commentator in mobile service the Type BD 646 unit finds numerous other applications. It contains a handset, brought into operation by a non-locking key which is also a calling key, four headphone jacks with volume control, a cue light and an interlock to disconnect a microphone circuit when the telephone is in use. Two standard twin screened sound cables carry all these facilities, one being used only for the microphone circuit.

The unit is supplied complete with a cover having a carrying handle.



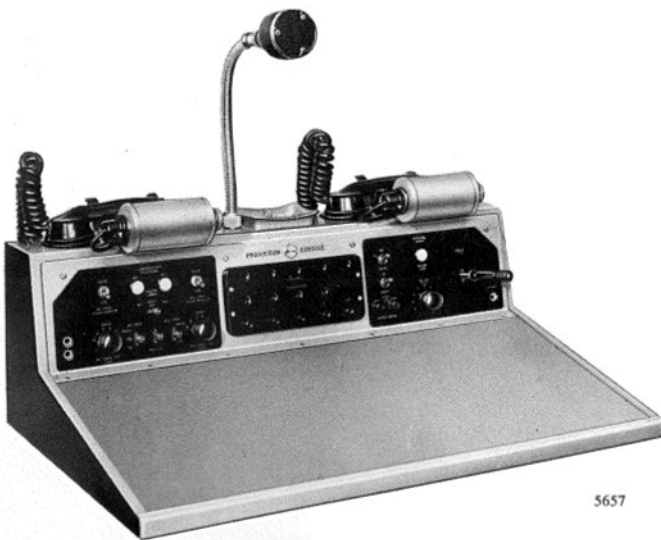
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Mobile Production Console *Type BD 647*

THIS CONSOLE provides a desk position for a producer. While developed primarily for mobile service it also finds application in certain studio arrangements.

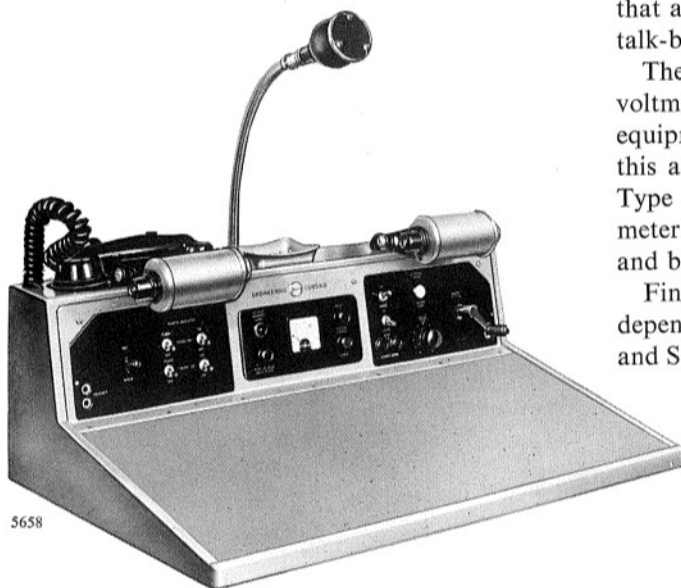
In shape it is similar to a writing desk with controls mounted on a sloping back panel which hinges forward for maintenance. Two shaded lights illuminate scripts, etc., on the desk surface and an ash tray is recessed into the back top surface.

The centre of the control panel is occupied by a vision switching panel allowing the producer to cut between four cameras or three cameras and a remote channel. 'Available' and 'On Air' cue lights are associated with each cutting button.



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On the right of the console is a magneto ringing telephone with calling light and buzzer. This is normally used over a private line, say back to the studio centre. A switch allows the microphone to be energised either from the mains or from a battery in the console. The handset on the left is designed to operate with up to two Mobile Commentators' Communication Units, Type BD 646, and has selector and calling keys and calling lamps with associated buzzer. Two three-position keys give the choice of signal fed to the headphone jacks on the commentators' unit. The normal choice is between Radio Sound, Programme Sound, and Producer's Talk-back. Two switches give selection between two vision sources, normally radio and line signals, the selected signal usually being fed to a picture monitor associated with the commentators' unit. Two selector switches are also provided to take 'On Air' cues from the sound mixer and show by the cue light on the commentators' unit when that microphone circuit is faded up.



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A high quality microphone, mounted on a flexible stalk, is used for producer's talk-back, and normally operates with a Communication Unit Type BD 649, etc. If the producer so desires, he can plug in headphones getting programme sound in one ear and mixed camera talk-back in the other, *i.e.*, combined talk-back from all camera operators. Alternatively a head-set can be used in which case its microphone replaces the high quality microphone. Independent volume controls are provided in these talk-back circuits.

Mobile Engineering Console *Type BD 648*

THE CONSOLE is designed for the use of the engineer in charge of an outside broadcast unit and is of similar construction to the Type BD 647 Unit.

It has the same type of script lights, ash tray, and magneto telephone facilities. The talk-back arrangements are also the same with the exception that a key is provided to bring in the Engineer's talk-back microphone as required.

The centre of the panel is occupied by a mains voltmeter, indicating the mains voltage on the equipment, and buttons for remotely adjusting this and a Mobile Mains Voltage Control Unit Type BD 640. A button also allows the voltmeter to read mains input volts. An alarm light and buzzer indicate over-voltage conditions.

Finally, switches are provided to control independently the two halves of a Mobile Vision and Sound On Indicator, Type BD 645. For preliminary warning the indicator automatically flashes on and off and is made steady when the actual programme commences.

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