



## Vision Mixer Type BD841M



THIS compact and versatile vision mixer has been designed to cover the average requirements met with both in the studio and in the mobile unit. It provides for direct switching of 7 inputs into a Line Clamp Amplifier Type BD 651 or BD 813 (see page 141) which is itself included as part of the Type BD 841M equipment.

Editions are available for operation on 405, 525 and 625 line systems.

### FACILITIES

- Cutting by push-button switching between 7 inputs (75  $\Omega$ ), at standard level.
- Cutting to and from a superimposition of any 2 out of 8 inputs.
- Mixing and fading of any one input into another.
- Emergency by-passing facilities.
- Previewing of any one of 8 inputs.

- Previewing of a superimposition of 2 inputs.
- Monitoring of mixer output on the preview monitor.
- Cue signalling to 4 camera channels and cue control.
- 4 composite vision outputs at 2 dB above standard level (75  $\Omega$ ). (Linearity within 2%; peak-signal to peak-noise ratio better than 50 dB.)
- Talk-back facilities as required, with provision for 2 commentators.

### CONSTRUCTION

- The mixer comprises the following sub-units:
- Vision Mixer Panel Type 3227*
  - Cut Panel Type 3219*
  - Preview Panel Type 2175*
  - Production Talk-back Panel Type 2529A*

*Commentator's Talk-back and Switching Panel  
Type 2195B*

*Emergency Amplifier and Power Supply Panel  
Type 3239*

*Line Clamp Amplifier Type BD 651 or BD 813.*

For mobile use, these units (apart from the line clamp amplifier) are housed in an attractive desk-mounting console with a sloping front and are enclosed by a black escutcheon. Script lights are fitted and a talk-back microphone on a flexible stalk is mounted on the top of the console. The line clamp amplifier is a separate unit, mounted in a mobile case.

For studio use the console is adaptable for fitting into customers' own desks or alternatively it can be supplied mounted in a studio console housing together with a Picture and Waveform Monitor Type BD 627 (see page 117). A rack-mounted line clamp amplifier will be employed in this case.

**Vision Mixer Panel Type 3227**

This is a 2-channel mixing unit with a row of 8 push-buttons for each channel. Fading-out of one channel and fading-in of the other is effected by simultaneous operation of 2 quadrant controls. The 8 inputs are fed to the 2 rows of push-button switches in parallel. A row of 8 cue lights covered by a transparent designation strip, indicates an 'available' channel. The push-buttons, which are transparent, are illuminated red when the channel is switched to line and are amber when the channel is on 'stand-by'. A 'picture fade' control enables the input change to be made on a black screen or the fading in or out of a superimposition. The panel is 14 in. wide by 6 in. high (35 × 15 cm).

**Cut Panel Type 3219**

This panel comprises 8 push-button switches in the input of a video amplifier. 7 of the switches are connected in parallel across 7 of the inputs to the mixer panel and the output of the mixer panel

is connected to the 8th switch. The output of the cut panel passes to the line clamp amplifier. The first 7 switches are thus a means of by-passing the mixer and switching the inputs straight to the line clamp amplifier, while the 8th switch controls the output of the mixer panel. The panel measures 14 × 2 in. (35 × 5 cm).

**Preview Panel Type 2175**

This panel consists of a single row of 8 buttons and any one of the 8 inputs, a superimposition of 2, the mixer output or a bridged input may be previewed on a picture and waveform monitor. The panel incorporates a bridging amplifier and is 14 in. wide by 2 in. high (35 × 5 cm).

**Emergency Amplifier and Power Supply Panel**

This panel houses an emergency video amplifier and its associated power supply unit. A switch on the front panel permits this amplifier to be brought into use in the event of a failure in either the line clamp amplifier or cut panel amplifier. Inputs selected on the mixer or cut panels are thus sent direct to line. A preview switch on this panel switches the 8th button of the preview panel to superimposition, line or bridged input. The panel measures 14 × 4 in. (35 × 10.2 cm).

**Production Talk-back Panel**

*Type 2529A*

This is the basic talk-back unit and provides jacks for phone and headset with volume controls and external loudspeaker key.

**Commentators Talk-back and Switching Panel Type 2195B**

This panel provides, in addition to the facilities of the Type 2529A, facilities for two commentators, and a telephone headset is incorporated at the end of the console.

All the talk-back sub-units measure 8 × 2 in. (20 × 5 cm).

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