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DC Dolby Model MPX500 Microphone Multiplexer

Users' Manual

Users' Manual

For

Model MPX500

Microphone Multiplexer

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Introduction

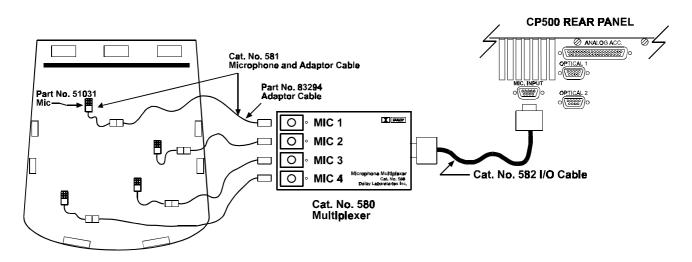
Intended for use with the Dolby CP500 Digital Cinema Processor, the Dolby Model MPX500 Microphone Multiplexer ensures rapid and accurate theater speaker equalization by enabling the simultaneous use of as many as four microphones (supplied) placed throughout the auditorium.

The MPX500 rapidly switches between the four microphones and sends their outputs to the CP500 over the special 31-meter (100-ft.) Dolby Cat. No. 582 input/output cable (supplied). Digital circuitry within the CP500 then averages the mic outputs for display on its built-in real time analyzer and subsequent EQ adjustments. This eliminates the time-consuming process of moving a single microphone to different locations and manually averaging the results.

Four high-quality electret microphones are supplied with the MPX500 along with 6-meter (20-ft.) connecting cables that adapt the microphones' standard XLR connectors to the "mini-XLR" style input connectors on the MPX500. The Cat. No. 582 input/output cable for connecting the MPX500 to the CP500 contains two individually shielded pairs, one for distribution of bi-directional RS-232 control signals and the other for the multiplexed microphone signal.

A built-in microcontroller chip is programmed to control microphone selection, switching rate between microphones, and the MPX500's LED display. There are no user adjustments on the MPX500 itself.

Unit Set-Up



Position the MPX500 Multiplexer centrally in the listening area and connect the four microphones to it using the four Cat. No. 581 adapter cables. Position the microphones in the room so that they are substantially in the reverberant field rather than receiving mostly direct energy from the speakers. A typical microphone

placement is shown above. Take care not to place any of the microphones on the central axes of the room, as standing waves and nodes at these positions can cause measurement errors. The microphones should normally be mounted at the listener's head height. However, if the seats have high backs, the microphones should be raised up so that they are at least 23cm (9 inches) above the top of the seat to avoid unwanted effects.

Connect the Cat. No. 582 input/output cable to the MPX500 Multiplexer and secure the hold down screws so that the cable cannot work loose. Route the cable to the location of the CP500 and connect it to the microphone connector on the back panel of the CP500.

The procedure for theater alignment can be found in the CP500 Installation Manual.

Components

Use the listed numbers for ordering replacement parts:

Cat. No. 580	Microphone Multiplexer Unit
Cat. No. 581	One Microphone with Adapter Cable (Part Nos. 51031 and 83294)
Part No. 51031	Microphone with 6' (2 meter) cable
Part No. 83294	Microphone-to-MPX500 Adapter Cable, 6 meter (20')
Cat. No. 582	MPX500-To-CP500 I/O Cable, 31 meter (100')

Operation

