

**TASCAM**

**M-300B SERIES**  
MIXING CONSOLES





## ONE CONSOLE FOR RECORDING AND SOUND REINFORCEMENT

TASCAM designed the 300B Series to meet the demands of both studio recording and live soundmixing. From the 8-channel M-308B to the 12-channel M-312B and 20-channel M-320B—these mixers perform at their peak in any situation. A sophisticated signal routing system takes care of the most complex foldback, effects mixing, subgrouping and monitoring requirements.

For all its sophistication, the 300B Series was designed to make mixing easy. Ample back-panel inputs and outputs combined with TASCAM's convenient top-panel switching matrix virtually eliminate the need for patching. The 300B Series' logical layout also lets you work quickly and efficiently.

300B Series consoles deliver clean, dynamic sound thanks to TASCAM's transformerless balanced differential input design. These input modules produce wider bandwidth and better transient response than conventional transformer-coupled designs, even when the signal level or source impedance changes. You get the same superb signal quality at any Pad or Trim setting, and the input circuit is much less sensitive to problems stemming from cable length and source impedance.

TASCAM's design approach makes the 300B Series tough enough to stand up to the hazards of the road. We build each module on its own circuit card for better isolation and easy serviceability. Then we mount it on a sturdy steel chassis for optimum strength and security. All internal components are protected from the outside world by a strong outer shell.

Rugged enough for sound reinforcement work. Clean enough for the most critical recording applications. Versatile enough to handle any assignment. 300B Series mixers offer the premium performance expected by today's audio professional.

## A SYSTEM OF SUBSYSTEMS

Each 300B Series mixer has a network of no less than five complete submix systems. These submix systems enable 300B Series owners to adapt instantly to the studio or the stage without complex patching schemes or board modification.

The Main Mix system receives signals from multiple inputs and routes them, via extensive channel module controls, to one or more Program Group faders. This makes it possible to combine several inputs on a single fader for mixing convenience. The Main Mix system feeds several different sets of outputs, providing ample options for creating a sound reinforcement house mix or a control room mix for recording projects.

Multiple and alternate mixes are never a problem on a 300B Series board. To meet these demands, TASCAM has provided two Auxilliary submix systems as well as versatile Effects and separate Monitor submix systems. The Aux systems can derive their input signals from several points within the console, which allows the operator to create cue mixes and monitor mixes independently of the main mix. The Effects system furnishes plentiful options for applying signal processing to the mix. If needed, this system can also double as an extra program buss.

The monitor submix system provides another means of creating discrete cue and monitor mixes. This system is essentially an independent 8-in/2-out submixer that is built right into each 300B Series board. On the M-312B and M-320B, the Monitor system is equipped with its own set of Aux submixes. The 300B Series' Monitor section makes an ideal submixer for today's multi-keyboard setups. Or, it can provide up to eight extra Effects Returns.





- 5 Submix Systems (Main Mix, 2 Auxilliary, Effects, Monitor) instantly organize and simplify complex recording or sound reinforcement setups without patching.
- 8, 12, or 20 channels, all with comprehensive subsystem signal routing.
- Phantom power (48V) switchable in 2-channel groups provides a convenient power source for phantom-powered condenser microphones.
- 3-Band EQ (defeatable) on each channel combines shelving and sweep-type parametric EQ to provide 12 dB and 15 dB of cut or boost at each frequency band.
- 4 Program Group/Busses, each with a master fader and your choice of balanced and unbalanced outputs. Single fader grouping for maximum mixing convenience.
- Stereo and Mono master section receives signal from Input channels, PGM busses, Tape Returns and Effect Returns.
- Sophisticated Solo system with PFL and AFL capabilities for sound-checks, or for fine-tuning a setting without interrupting the program.
- Insertion point on each channel, PGM buss, Stereo buss and Mono buss for applying external signal processing units.
- Complete Talkback system (M-312B and M-320B).
- Transformerless balanced differential input design for wide bandwidth and excellent transient responses.
- 8 Tape Return jacks accept a variety of Line-level signal.
- Trim and Pad controls on each channel provide a 74 dB sensitivity range for balanced inputs.
- Individual circuit cards are mounted on a steel subchassis for maximum strength and road-worthiness.
- Field replaceable with Penny & Giles faders and other popular brands.
- 1.5W/channel stereo headphone amp has enough power to drive a small set of speakers.



• This photo shows the M-312B rear panel.  
 • The M-320B has 20 input channels.  
 • The M-308B has 8 input channels and doesn't have dotted-line areas.