

**AMPEX**

**MM-800  
8-Channel  
Recorder/  
Reproducer**

to capture  
creative sound





# MM-800

the sweetest marriage  
of transport and  
electronics you'll  
ever come across.

People have been doing fantastic things with Ampex multichannel recorders — experimenting with new ideas, extending their own creativity with the flexibility that eight or more channels offer. And much of the creative work in this "Sound Revolution" is being done with eight channels. The newest member to our MM Series, the MM-800, was developed solely for eight-channel recording and playback — for *your* eight-channel recording and playback.

Innovation in tape recorder technology improves the breed. Yet, an innovative recorder must stand alone and prove its own worth.

The MM-800 is ready for the challenge. We've brought together the ideal transport for one-inch tape and the quietest, cleanest electronics available — the sweetest marriage you'll ever come across in eight channels.

*Designed specifically for eight-channel requirements, the MM-800 is not offered in other versions.*

## the transport that's smooth

Some manufacturers are satisfied with a "good" transport. But we aren't. We don't believe you are either. For that reason the MM-800 transport is today's ultimate in precision, ruggedness, reliability, and stability.

Here's what we mean. The MM-800's cast-magnesium base plate is strategically ribbed for rigidity. It rests on a special, three-point suspension system to mechanically ensure that there will be no warping while the big 10½-inch reels with their 1-inch tape are in motion. Further, the lightweight magnesium is an excellent heat sink. It eliminates hot spots, making the MM-800 a cool-running machine and helping keep the tape-path elements in precise alignment.

You'll find that the MM-800's simplified servo-controlled drive system gives excellent tape speed control. The motor shaft itself is the

capstan. The shaft is machined to extremely close tolerances ( $\pm 0.0001$ ) and it is the only internal variable in the system that affects tape speed. You switch speeds electrically (15 and 30 ips, or 7½ and 15 ips) quickly, quietly.

And tape speed is always accurate. A special integral capstan-speed servo system continuously samples both frequency and phase of the capstan tachometer and compares them with an internal standard frequency. The output is used to provide extremely accurate capstan speed control. The combination of capstan control and precise tension control introduces speed accuracy rarely obtained in audio recorders.

Overall excellence of MM-800 system design is demonstrated by its superior tape handling characteristics. Smooth and gentle braking and completely interlocked control circuitry eliminate possible tape stretch or breakage. Front accessibility provides easy routine preventive maintenance.



*Experience the MM-800. You'll find it the smoothest tape handling transport you've ever operated. Tape threading is simple and straightforward. In the fast forward and rewind modes, tape lifters raise the tape from the heads, increasing tape life and reducing head wear. Controls are simple and convenient for finger-tip command operation.*



## electronics that assure superior masters

For the best electronics, we didn't have to look beyond the MM-1000. Yes, the MM-800 uses the same electronics recording engineers and mixers swear by in both the MM-1000 Series and the AG-440B Series recorder/reproducers. Solid-state? Yes... but more importantly, these electronics give maximum S/N and a distortion free dynamic range. And the MM-800 records and plays back 30 to 18,000 Hz at 15 ips.

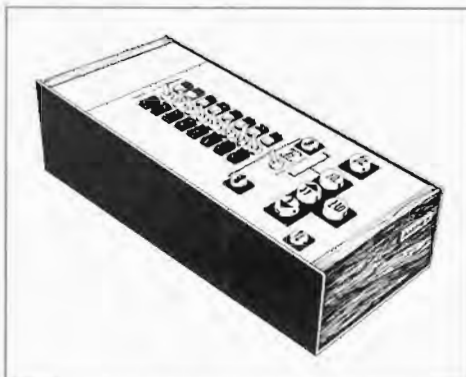
All electronics modules plug into the front of the chassis for easy, rapid accessibility. Playback, record, and bias amplifier boards afford you front-panel adjustments. Special logic-and-control circuitry eliminates intolerable editing "pops" when switching record amplifiers.

All eight channels' electronics are mounted on an overbridge above the transport for easy operation. Large illuminated easy-to-read VU meters can be switched to read record input, output, and bias current. A special control allows easy calibration of record and playback levels.

The Ampex pioneered Sel-Sync® system (selective synchronization)



that made creative multichannel mastering possible is standard in MM-800 electronics. The Sel-Sync system allows selective switching of recording heads to playback operation giving you the freedom to develop the right sound, and add



MM-800 Remote Control Unit

new dimensions to the sound, even after the talent has gone home. New Sel-Sync system logic improves S/N and frequency response while in that mode. And control backlighting in the remote control makes it easy to use. Lighted color codes indicate the mode of each track.

Inter-channel beats are eliminated by a special master bias oscillator. A 150k Hz bias frequency is fed to all eight channels assuring stable record/reproduce performance.

## accessories

No major accessories are needed... just move the lightweight MM-800 in and hook it up. Even a complete remote control unit with the Sel-Sync system is standard. For extra capability, mike preamps, matching transformers, alignment tapes, extender boards, and other Ampex equipment are available for the MM-800.

## it pays its own way

Ampex offers a unique choice of lease or extended pay plans for the MM-800. You'll be pleased how quickly the MM-800 pays for itself. Contact your nearest Ampex Sales Office and take a close look at the new MM-800.

## Ampex sales offices

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