

AMPEX

Sync Lock Accessory for AG-440 series and MM-1100 series Recorder/Reproducers

Features:

- locks recorder to film, video, or other audio recorders
- generates control track from composite video sync or other reference sources
- variable speed $\pm 10\%$ of nominal
- control track indicator lamp
- phase comparison
- 50 or 60 Hz operation

New and expanded recording capabilities are now within reach with the Sync Lock accessory from Ampex. This enhancement can be used in conjunction with all AG-440 series recorders equipped with capstan servo, and with all MM-1100 series multichannel recorders. With Sync Lock, the professional recording engineer can lock the recorder to film or video or create special effects.

Sync Lock offers unique capabilities not found in the normal 60 Hz resolver. It formats the control track to be recorded from a variety of sources, including composite video sync, the servo crystal oscillator, ac line, or other external reference. During playback, the control track is locked to any of the original (record) signal sources mentioned above. No extra circuitry is required to resolve the required 60 Hz signal from composite video sync.

In film or video applications, variable speed can be employed to

achieve lip sync. In other applications, the variable speed range of $\pm 10\%$ of nominal gives the recording engineer wide latitude in creating special effects.

Sync Lock also includes provision for a separate optional preamplifier, permitting direct connection of a pilot tone head to the unit. This feature eliminates the need for a separate set of electronics when the recorder is used to resolve a neo-pilot tone track (from $\frac{1}{4}$ -inch tape, for example).

An indicator lamp on the front panel of the unit shows when a 60 Hz control track signal is present. Loss of the control track initiates an automatic switchover to the crystal oscillator reference signal, which permits the system to continue operating until the control track is restored.

The system employs phase comparison, comparing each cycle. This feature eliminates the possibility of any long-term cumulative error in synchronization.



AMPEX

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