







MM-1000 SERIES RECORDER/REPRODUCER

The MM-1000 series of multichannel professional audio tape recorders is designed to meet the demands of creative engineering and performing talent for operational features, performance, reliability, flexibility and versatility. Available in three configurations; 8, 16, and 24 channels. The basic 8-channel recorder/reproducer can be readily expanded to 16 or 24 channels without obsoleting any of the original components. Designed for videotape recording and field proven by more than 3000 units in service, the transport properly handles both 1- and 2-inch tape. Modular electronics, similar to the proven AG-440 system, assure trouble-free operation and easy maintenance.

FEATURES:

Transport convertible from 1-inch to 2-inch tape, tape motion sensing with logic and memory circuits, automatic tape lifters with manual override, accommodates 10-½-, 12- and 14-inch reels, reset-table tape position index. Remote SEL-SYNC* capability on all channels.

SPECIFICATIONS:

Signal/Noise Ratio:

7-1/2, 15 ips: 60 dB min, 8- and 16-channel 55 dB min, 24-channel

Frequency Response-overall:

15 ips: ±2 dB, 30 Hz-18 kHz 7-1/2 ips: ±2 dB, 30 Hz-15 kHz

Flutter:

18 ips: below 0.08% rms 7-1/2 ips: below 0.17% rms

Third Harmonic Distortion:

7-1/2, 15 ips: below 1.1% at normal operating level.

Crosstalk:

50 dB min, 8 and 16 channels at 500 Hz 45 dB min, 24 channels at 500 Hz

Timing Accuracy:

±0.1% (±1.8 seconds in 30-minute record time)

Start Time

Tape at full spead in less than 0.5 second.

*SEL-SYNC TM Ampex Corporation

MM-800 RECORDER/ REPRODUCER

New to the MM Series, the MM-800 recorder/ reproducer affords the professional recording studio an outstanding eight-channel specialist in the multichannel realm. This eight-channel sophisticate is a worthy member of the established MM Series, with identifiable family features such as modular, low-noise electronics and remote Sel-Sync.

Further, the MM-800's servo-controlled transport introduces a finesse in one-inch tape handling that can be considered a breakthrough for professional audio recording equipment.

FEATURES:

Low-noise electronics with calibration settings and electronics adjustments through front panels. Plug-in printed circuit boards. Servocontrolled transport mechanically adjustable from front. Remote control with Sel-Sync standard.

SPECIFICATIONS:

Signal/Noise Ratio:

30 ips: 62 dB min 7-1/2, 15 ips: 60 dB min

Frequency Response:

30 ips: ± 1 dB, 100 Hz - 20,000 Hz ± 2 dB, 50 Hz - 20,000 Hz 15 ips: ± 2 dB, 30 Hz - 18,000 Hz 7-1/2 ips: ± 2 dB, 40 Hz - 15,000 Hz

Flutter:

30 ips: below 0.05% rms 15 ips: below 0.08% rms 7-1/2 ips: below 0.1% rms

Distortion:

Second harmonic distortion of a 500 Hz signal recorded at peak record leveling less than 0.4%

Cross Talk:

Better than 50 dB min at 500 Hz

Timing Accuracy:

± 0.2% ± 3.6 seconds in 30-minute recording time.)

AG-440B SERIES RECORDER/REPRODUCER

Long the standard of the broadcast industry, the AG-440B series is a complete family of rack mounted, console and heavy-duty portable recorders for the most exacting applications. Offering versatility and performance unsurpassed, the AG-440B consists of a three-motor, pushbutton relay-solenoid-operated, dual-speed transport; separate solid-state electronics chassis for each channel with separate plug-in record, reproduce and bias amplifiers; built-in SEL-SYNC* system; automatic equalization change and a high-quality Ampex four-position head assembly.

FEATURES:

Die-cast aluminum top-plate, high speed conversion between ¼-inch and ½-inch tape, low impedance heads, jewel bearing scrape flutter idlers, electronics modules plug-in from the front, set-up adjustments made from the front, plug-in equalizers, three edit modes, rapid maintenance, 10-½-inch reel capacity.

SPECIFICATIONS:

Signal/Noise Ratio:

 Speed
 Full Track
 2 Track
 4 Track

 15 ips
 66 dB
 63 dB
 60 dB

 7-1/2 ips
 66 dB
 63 dB
 60 dB

 3-3/4 ips
 63 dB
 56 dB
 56 dB

Frequency Response-overall:

15 ips: ±2 dB, 30 Hz-18 kHz 7-1/2 ips: ±2 dB, 40 Hz-15 kHz 3-3/4 ips: ± 2 dB, -4 dB, 50 Hz-7.5 kHz

Flutter:

Speed Percentage 15 ips below 0.08% rms 7-1/2 ips below 0.1% rms 3-3/4 ips below 0.15% rms

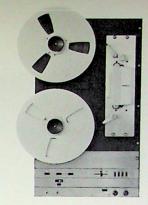
Playback Timing Accuracy:

 $\pm 0.2\%$ (± 3.6 seconds in 30 minutes recording time).

COVER: Our catalog cover is a photographically abstracted illustration of a 24-track recording head from an MM-1000-24 Recorder/Reproducer.



AG-440-8



ABR-15



ABR-10

AG-440-8 MASTER RECORDER/REPRODUCER

The highly reliable AG-440 is available in an 8-track configuration using one-inch tape. This fine instrument features all the reliability and maintenance ease of the standard AG-440B. The ribbed, die-cast top plate provides rigidity essential to permanent tracking alignment. The new AG-440-8 has operating features of the 1- to 4-track units, plug-in high torque reeling motors and instrumentation type locking holddown knobs for NAB 10-1/2-inch reels.

SPECIFICATIONS:

Signal/Noise Ratio: 7-1/2, 15 ips: 60 dB

Frequency Response-overall: 15 ips: ±2 dB, 30 Hz-18 kHz 7-1/2 ips: ± 2 dB, 40 Hz to 10 kHz; +2 dB 4 dB, 40 Hz to 15 kHz

15 ips: below 0.08% rms 7-1/2 ips: below 0.1% rms

Crosstalk:

Better than 65 dB at 500 Hz

ABR-15 BROADCAST RECORDER/REPRODUCER

Designed specifically for broadcasters, the bidirectional ABR-15 is a symmetrical audio recorder. All mechanical and electrical devices are duplicated to provide complete bidirectional operation for flexibility in automated and semiautomated applications. Unidirectional models are also available. Quick tape start times allow more precise cue control. The ABR-15 accepts reels of up to 15 inches diameter for unattended program automation systems.

FEATURES:

Bidirectional drive for flexible performance in broadcast automation application, direct drive system maintains precise tape speeds, variable fast forward/reverse search control.

ABR-10 BROADCAST RECORDER/REPRODUCER

Same reliable bi-directional, symmetrical design as the ABR-15 Recorder/Reproducer. The versatile and dependable ABR-10 answers todays needs in unattended program automation system-at a reasonable cost. Reels from 5 to 10-% inches can be used on either the record/ reproduce model or the reproduce-only model. As with the ABR-15, adjacent speed pairs may be chosen from five speeds, 15/16 to 15 ips. A completely separate servo-controlled tape tension system automatically adjusts torque of reel motors for correct tension without adjustment.

FEATURES:

Same features as ABR-15 including servocontrolled precise tape tension, quick start/ stop times, engineered for easy calibration and operation-unbeatable reliability at reasonable cost.

SPECIFICATIONS:

With exception of 5-inch to 10-4-inch reel sizes, ABR-10 Recorder/Reproducer specifications are identical to those of the ABR-15.

Signal/Noise Ratio:

7-1/2, 15 ips: 66 dB full, 63 dB half, and 57 dB quarter track

3-3/4 ips: 63 dB full, 63 dB half, and 57 dB quarter track

1-7/8 ips: 45 dB half, and 42 dB quarter track 15/16 ips: 40 dB half, and

40 dB quarter track

Frequency Response: 15 ips: ± 2 dB, 30 Hz-

18 kHz 7-1/2 ips: ± 2 dB, 40 Hz-15 kHz 3-3/4 ips: ± 2 dB, 40 Hz-

10 kHz 1-7/8 ips: ± 3 dB, 40 Hz-10 kHz

15/16 ips: ± 3 dB, 100 Hz-5 kHz

Flutter:

15 ips: 0.1 % 7-1/2 ips: 0.15% 3-3/4 ips: 0.18% 1-7/8 ips: 0.25% 15/16 ips: 0.4 %

Start Time:

Operating speed attained in 0.1 second.



MINI-MIXER

MINI-MIXER

The Mini-Mixer (Cat. No. 4020279) is an ABR Series accessory similar in size and shape to the recorders' Control and Electronics modules. Its purpose is to add a mixing capability to an ABR recorder if the need arises. The input to a Mini-Mixer may be either a microphone, phonograph pick-up, or balanced or unbalanced line input. Up to four inputs are accepted, and accessory plug-in amplifiers or transformers can be added as required.

The Mini-Mixer contains two dual-input amplifiers whose outputs may be separate or summed by means of a panel rocker switch, thus providing capability for four inputs to a single output or two inputs to each of two outputs. Active circuit mixing is used to minimize signal-to-noise degradation and power is obtained from the electronics chassis. To accommodate other than line level input-signals, a microphone preamplifier or a phonograph preamplifier is required. Balanced line inputs may be accommodated with the use of 20,000 ohers bridging transformer or a 600-ohm matching



AG-600



AG-500



GS-80B

AG-600 SERIES RECORDER/REPRODUCER

A smaller, all solid-state version of the earlier 600 Series, the AG-600 offers field versatility with studio reliability. It is available in single channel (full or half track mono) or two channel (half or quarter track stereo/mono) portable or rack mount. It is ideal for broadcast, industrial, educational, religious, medical and government applications.

FEATURES:

Two-speed transport, three-digit counter, diecast aluminum top plate, new solid-state electronics, two inputs each channel, set up controls at front panel.

SPECIFICATIONS:

Frequency Response:

7-1/2 ips: +2 dB -4 dB from 40 Hz-15 kHz 3-3/4 ips: +2 dB -4 dB from 40 Hz- 8 kHz

7-1/2 ips: Full track 57 dB, half track 55 dB 3-3/4 ips: Full track 52 dB; half track 50 dB

Crosstalk Rejection:

Better than 40 dB mid-frequency

inches W x 8-% inches D

7-1/2 ips: below 0.17% 3-3/4 ips: below 0.25%

Size & Weight: (In Portable Case)

Single channel-28 lb: 14-14 inches H x 13 inches W x 8-% inches D Dual channel-42 lb: 19-1/2 inches H x 13

AG-500 SERIES RECORDER/REPRODUCER

A full studio quality solid-state professional recorder, the AG-500, is supplied in a rugged portable case or for rack mounting. It is available in single or two channels in a choice of dual speed arrangements. Designed for broadcast use, the AG-500 is also ideal for schools, motion picture studios, government operations and medical and industrial research.

FEATURES:

Precision milled die-cast top-plate, relay solenoid operated, remote controllable, eddy current clutches, front panel electronic adjustments, four position head assembly, two line inputs per channel.

SPECIFICATIONS:

Overall Frequency Response:

15 ips: ±2 dB, 30 Hz-18 kHz 7-1/2 ips: +2 dB -4 dB, 30 Hz-15 kHz 3-3/4 ips: +2 dB -4 dB, 40 Hz- 8 kHz

Signal/Noise Ratio:

55 dB at 15 and 7-1/2 ips (half track or

60 dB at 15 and 7-1/2 ips (full track) 55 dB at 3-3/4 ips (full track)

Flutter and Wow:

Less than 0.15% rms at 15 ips 0.18% rms at 7-1/2 ips 0.25% rms at 3-3/4 ips

Weight & Dimensions:

1 channel portable-42 lb: 20 inches W x

9-% inches D x 14-5/8 inches H 2 channel portable—52 lb: 20 inches W x 9-1/4 inches D x 18-1/8 inches H

GS-80B DATA RECORDER/REPRODUCER

Analog or digital information can be recorded with the simplicity of audio recording using this rugged, versatile unit. It couples a fieldproven transport with all solid-state electronics in a modular package.

FEATURES:

Modular all solid-state audio or NRZ digital electronics, same two-speed transport as AG-500, speed pairs selectable from 1-7/8 to 7-1/2 ips, hysteresis synchronous motor, four position head assembly.

SPECIFICATIONS:

Reproduce Timing Accuracy:

± 0.25% at 7-1/2 ips; ± 0.33% at 5-5/8 ips;

± 0.4% at 3-3/4 ips; ± 0.6% at 1-7/8 ips;

± 1.0% at 15/16 ips

Digital Record/Reproduce System (One to Four Channels) NRZ Transfer Rate:

7-1/2 ips: 5,000 BPS maximum

5-5/8 ips: 3,750 BPS maximum

3-3/4 ips: 2,500 BPS maximum

1-7/8 ips: 1,250 BPS maximum

15/16 ips: 625 BPS maximum

Audio Record/Reproduce System (One to Four Channels) Frequency Response:

7-1/2 ips: ±2 dB, 100 Hz-12 kHz,

±4 dB, 100 Hz-15 kHz 3-3/4 ips: ±2 dB, 100 Hz- 6 kHz

±4 dB, 100 Hz - 8 kHz

1-7/8 ips: ±2 dB, 100 Hz- 3 kHz; ±4 dB, 100 Hz- 4 kHz

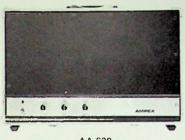
Two speeds selectable from from panel. 7-1/2 and 3-3/4, 7-1/2 and 5-5/8 3-3/4 and 1-7/8, 1-7/8 and 15/16 ips

Start Time:

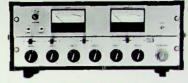
less than 0.5 second.

Stop Time:

less than 0.3 second.



AA-620



AM-10 with Accessory Meter Panel



"Mini-Studio" Systems

AA-620 AMPLIFIER/SPEAKER

A portable amplifier/speaker designed primarily for remote or studio use where high-quality monitoring or sound reproduction in lightweight package is required. For use with professional portable recording equipment such as the AG-600 and AG-500, or as studio monitor. The AA-620 is ideal for broadcast, audiovisual applications in education and industry, medical and commercial sound applications.

FEATURES:

Two-speaker system in tuned enclosure, separate bass-treble equalizers, solid-state electronics, essentially flat from 65 Hz to 10 kHz. 15-watt output.

SPECIFICATIONS:

Overall Frequency Response (acoustical):

Essentially flat acoustically, range better than 65 Hz-10 kHz

Speakers

10-inch Woofer; 3-1/2-inch Tweeter

Power Output:

15 watts into an 8-ohm resistive load

Signal/Noise Ratio:

Amplifier noise (including hum), 80 db below rated output.

Size & Weight:

Portable – 24-% lb: 14-% inches H, 20-1/8 inches W, 9 inches D

AM-10 STEREO/MONO MIXER

A professional quality, compact, six-position, two-channel mixer for studio or portable use, the AM-10 is ideal for broadcast studio, motion picture studio, schools, government, medicine, and industrial applications.

FEATURES:

All solid-state, regulated power supply, four mic and two line inputs feed A, B, or A and B output channels, separate gain controls, reset indicators, mixers can be coupled, rack or console overbridge mounting or case-mounted with an accessory meter panel.

SPECIFICATIONS:

Frequency Response:

± 1 dB, 30 Hz - 20 kHz

Distortion:

Microphone Input: +12 dBm output level, less than 0.5% THD from 100 Hz-10 kHz

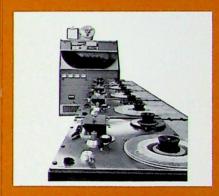
Line Input: +12 dBm output level, less than 0.5% from 50 Hz-10 kHz

Crosstalk Rejection:

65 dB at 500 Hz. Greater than 40 dB from 20 Hz-20 kHz

"MINI-STUDIO" SYSTEMS

AG-500 and AG-600 professional recorder/ reproducers in combination with Ampex systemmatched accessories become compact, portable field studios. Systems are assembled using one or more recorders, AA-620 amplifier/ speakers, AM-10 stereo/mono mixer, with microphones and accessories as needed.



CUSTOM AUDIO

Standard products shown in this catalog can be modified to meet special requirements through the facilities of Ampex Special Products Division. Individual products or complete systems can be manufactured.

Quotations on special requirements can be obtained through your Ampex franchised Professional Audio distributor, or from the nearest Ampex District Office.





BLM-200



3000 Series Duplicator

MM-1005 REPRODUCER

New flexibility for mix-down creative sessions is now available with a playback-only version of the proven MM-1000 Recorder/Reproducer. The low cost MM-1005 Reproducer frees the MM-1000 for studio sessions. The MM-1005 meets the most exacting specifications and enjoys complete compatibility with the MM-1000 and other professional multichannel recorders. Plug-in head assemblies allow easy change in the field from 8- to 16- or 24-channel configurations. An optional VU meter rack installs above the MM-1005 transport for viewing ease.



AG-445B REPRODUCER

Reproducer—only version of the AG-440B series, the AG-445B has the same features and specifications and the same high quality. The units are convertible between ¼-inch and ¼-inch tape and are available in console or unmounted versions. The same basic overbridge electronics chassis will accept from one to four channels of individual reproduce electronics. Applications include automated radio stations, commercial and industrial music systems and others where the highest quality playback of prerecorded information is needed.

BLM-200 DUPLICATOR SYSTEMS

The BLM-200 Duplicator System provides high-speed production of multichannel cassette or cartridge tapes. Designed on a flexible "building block" principle to provide for future expansion, the basic BLM-200 master will drive up to ten slaves or, with minor modifications, up to twenty slaves. The BLM-200 master assembly is a self-contained bin-loop system that eliminates rewinding of tape, permitting automatic duplication. It reproduces four or eight tracks to provide easy conversion between cartridge and cassette duplication.

FEATURES:

Duplication to reel-time ratio is 16:1, produces 4- or 8-track cartridge or 4-track cassette copies, on-site conversion from 4- to 8-track formats, easy loading and automatic self-cueing of bin-loop, turn-around guides for either 150-mil or 250-mil tape on slaves, slave head assemblies and controls are quickly interchangeable.

SPECIFICATIONS:

Frequency Response:

7-1/2 ips master: ± 1 dB, 500 Hz-160 kHz (30 Hz-10 kHz real speed)

3-3/4 ips duplicated copies:± 2 dB, 50 Hz-8 kHz

Crosstalk Rejection: Better than 50 dB

Better man 50 de

Signal/Noise Ratio:

Better than 10 dB below a blank, biased Ampex 404

Series Low-Noise Professional Audio Tape; 500 Hz-80 kHz (30 Hz-5 kHz at real speed) better than 6 dB up to 160 kHz (10 kHz).

Flutter

Less than 0.1% rms (ASA weighted)

Maximum Tape Capacity:

Master Bin-Loop: 1200 feet

Slave Assembly: 14-inch-diameter reel

3000 SERIES TAPE DUPLICATOR SYSTEMS

3000 series duplicator systems offer high-speed, high-quality duplication in single or mass production runs. Full, half or two track mono tapes are produced with 3200 units, quarter track stereo with 3300. 3000 series systems are ideal for duplicating pre-recorded music, radio program material, commercials, religious and instructional material.

FEATURES:

Up to 120 hours of program material per slave per 8 hour operation, 1:1 or 2:1 dubs at 30 or 60 ips, handles 14-inch reels, master and slaves equipped with full controls, slaves may be added at any time (up to 10 max.). Duplicates both single and two track masters in one pass of tape. Output approximately 10 reels per hour, per slave.

SPECIFICATIONS:

Frequency Response:

Maximum deviation from master tape:

Playing Speed Frequency Maximum Duplicated Range Deviation Copies +2-4 15 ips 50 Hz-20 kHz 7-1/2 ips 50 Hz-15 kHz +2-4 3-3/4 ips 50 Hz-7-1/2 kHz +2-4

Crosstalk Rejection: 50 dB

Signal/Noise Ratio:

Will not introduce more than 3 dB noise on duplicates.

Flutter and Wow:

Will not introduce more than 0.15 rms in duplicates (measured by ASA standard).

Dimensions and Shipping Weight:

Master reproducer 26x25-%x60 inches,

Duplicator 26x25-1/x36 inches, 205 lb



Professional Audio Tape

Professional Microphones

New and Rebuilt Heads

Remote Controls

TRAINING

Owners and operators of Ampex professional audio equipment can attend specialized training courses on the care and use of their Ampex equipment. Training is conducted several times each year throughout the United States and at various world-wide locations. The courses are designed to ensure that users of Ampex professional audio equipment realize the best possible results. Owners need only contact their nearest franchised distributor or the nearest Ampex District Office for dates and enrollment to take advantage of this service.

PROFESSIONAL AUDIO RECORDING TAPE

Ampex professional audio tape is specially formulated and manufactured to meet the exacting requirements for performance and dependability specified for mastering, duplicating and broadcast applications. A wide variety of configurations is available to meet your exact requirements in 5- and 7-inch plastic reels (1/2-inch tape), 10-1/2-inch metal reels (all widths) and in bulk with plastic or metal hubs.

600 SERIES general purpose professional recording tape for all professional recorders such as used in broadcasting, duplicating, education, industry and medicine.

FEATURES:

Uniform tape output for consistency of recording. Maximum dynamic range for fidelity at varying recording levels. Exclusive Ferro-Sheen* tape for clean running, long tape life, reduced head week.

Type	Width (Inches)	Base (mil)
611	1/2 and 1/4	1.5 Acetate
621	1/4	1.0 Acetate
631	1/2 and 1/4	1.5 Polyester
641	1/2 and 1/4	1.0 Polyester
651	1/4	0.5 Polyester
661	1/4	0.5 Palyester
		(Triple Play)
661	150 MIL	0.5 Polyester
		(Cassette)
681	1/4	1.0 Polyester

404 SERIES low noise mastering tape for all mastering recording including endless loop and other applications requiring the ultimate in tape performance.

FEATURES:

High signal-to-noise ratio for freedom from tape "hiss" and purity of recorded signal. Excellent high-frequency response for true reproduction of short wavelengths. Wide, undistorted dynamic range for maximum fidelity at all recording levels. Exclusive Ferro-Sheen* tape for clean running, long tape life, reduced head wear.

Type	Width	Base
	(Inches)	(MIL)
414	14, 14, 1	1.5 Acetate
434	14, 16, 1, 2	1.5 Polyester
444	14, 15, 1, 2	1.0 Polyester

^{*}Ferro-Sheen TM Ampex Corporation.

ACCESSORIES

A wide variety of accessories is available to extend the usefulness of Ampex professional audio equipment. Please refer to current price sheets concerning specific products for complete listing.

AM-10: 6-position, 2-channel stereo/mono mixer for studio or remote applications. Rack mount version, or with accessory meter panel in portable case (see page 5).

AA-620: 15-watt solid-state amplifier/speaker. Two-speaker system in tuned enclosure. In portable case (see page 5).

Professional Microphones: Model 802 omnidirectional dynamic mic, 50-20,000 Hz, high or low impedance. Model 803 cardioid mic, 45-15,000 Hz.

Remote Controls: Available for most Ampex recorder/reproducers or reproducers. See price sheets for specific products.

Microphone Preamplifier: Plug-in type, variable gain, 600 ohms output, for high and low impedance mics. See price sheet for specific product.

Line Input Transformers: Balanced bridge or matching 600-ohm types for all Ampex proaudio equipment. See price sheet for specific product.

New and Rebuilt Heads: For replacement or spare. See price sheet for specific products or head price sheet.

Miscellaneous Accessories: Portable cases, electronics modules, maintenance kits (head degaussers, cleaner, oil) and special accessories available. See components and accessories price sheet or price sheet for specific products.

STANDARD TEST AND ALIGNMENT TAPE

A line of standard reproducer alignment test tapes and flutter test tapes are available for NAB, CCIR, IEC, RIAA, EIA and DIN standards. Each is an original recording, not a dub. Complete information included in booklet entitled "Test Tape Applications."

GENERAL

Specifications shown in this catalog are not intended to be complete but to indicate general performance characteristics. These specifications are measured by professional standards and are guaranteed minimum to be expected in long term operation with proper use and normal maintenance. Complete specifications and prices are detailed on individual product sheets.

All Ampex professional audio products are warranted against defects in workmanship and material for one year. Defects will be corrected at no cost to end user for up to 90 days, and at cost of labor up to one year, in accordance with the terms of the warranty. A copy of such warranty will be provided upon request.

SERVICE:

Ampex franchised Professional Audio Products Distributors are equipped to provide warranty service, maintenance contract service, and all normal service requirements. In addition, Ampex Service Company maintains service centers in principal cities and is equipped to provide complete maintenance and repair service, emergency service, and modification and updating of Ampex equipment. See yellow pages under: Recorders-Sound-Equipment and Supplies.

FINANCING PLANS

Ampex also offers pay-as-you-use, purchase or lease plans on professional audio equipment. They allow you to buy equipment now without the necessity of diverting working capital from other needs, at rates not always available from local sources. Your distributor has complete information.

Ampex Corporation reserves the right to change prices and specifications without notice and without obligation.

PRICES

Price schedules for all products are available upon request. Contact your nearest Ampex Professional Audio Distributor or District Office.

TABER

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MARYLAND 7222 47th Street Chevy Chase 20015 (301) 652-1881 TWX: 710-824-0409

NEW JERSEY 75 Commerce Way Hackensack 07601 (201) 489-7400 TWX: 710-990-5143 (from New York: 736-6116)

TEXAS 1615 Prudential Drive **Dallas 75235** (214) 637-5100 TWX: 910-861-4967

AMPEX SERVICE CENTERS

HEADQUARTERS 5422 W. Touhy Ave. Skokie, IL 60076 (312) 675-2705 TWX: 910-222-4748

391 Totten Pond Lane Waltham, MA 02154 (617) 893-0248 TWX: 710-324-6944

CHICAGO 5422 W. Touhy Avenue Skokie, IL 60076 (312) 679-8950 TWX: 910-222-4748

DALLAS 6712 Oakbrook Blvd. Dallas, TX 75235 (214) 637-5650 TWX: None

DETROIT 1035 Hilton Rd. Ferndale, MI 48220 (313) 399-2128 TWX: None

LOS ANGELES 500 Rodier Dr. Glendale, CA 91201 (213) 245-9373 TWX: 910-497-2268 MIAMI 14632-34 NW 7th Ave. Miami, FL 33168 (305) 681-3256 TWX: None

NEW YORK 75 Commerce Way Hackensack, NY 07601 (201) 489-7400 TWX: None

PHILADELPHIA 947 Old York Rd. Abington, PA 19001 (215) 887-1522 TWX: None

SAN FRANCISCO 120 Independence Dr. Menio Park, CA 94025 (415) 367-2646 TWX: 910-378-5920

SEATTLE 15 Grady Way, Suite 527 Renton, WA 98055 (206) 228-4880 TWX: 910-423-1577

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