

AMPEX SERIES 300 TAPE RECORDERS

for master recording



AMPEX

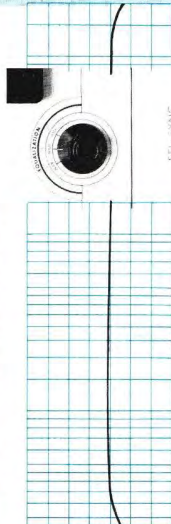
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300

DESIGNED FOR THE MASTER RECORDING INDUSTRY

WIDE RANGE RECORDING



Negligible flutter and wow The requirements of the professional recording market — wherein the ultimate consumer may get up to the sixth generation recording — make it imperative that the master tape be free from flutter and wow. This can only be achieved through the Ampex 300 Recorders whose flutter and wow characteristics are so low as to be practically eliminated. Even when pyramided through several generations, flutter and wow are still far too insignificant to be audible.

Frequency response Combining an essentially flat response from 30 to 15,000 cycles with a high signal-to-noise ratio, and the almost complete freedom from flutter and wow, results in master recordings of unsurpassed quality. And — Ampex Series 300 Recorders continue to deliver this ultimate in performance even after many years of continuous use.

Three equalizations NAB equalization is supplied on single channel models unless otherwise ordered. Multi-Channel versions are supplied with exclusive AME (Ampex Master Equalization) and NAB as standard equipment; CCIR equalization can also be ordered. The AME curve represents a considerable advance in master recording and gives an effective 7 db increase in signal-to-noise ratio over the 2,000 to 6,000 cycle range . . . thus reducing "subjective" tape hiss found in this frequency range. This lower noise level is particularly advantageous in producing the new 4-track stereo tapes.

Monitoring An AB switch allows comparison of input and tape output by means of (1) a VU meter, (2) headphones plugged into the front panel, or by (3) a line connected to the studio monitor circuit.

TAPE TRANSPORT



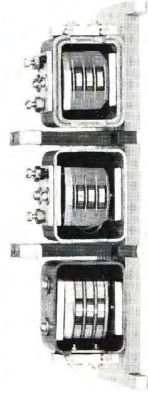
Tape transport Three precision, heavy duty motors handle reels up to 14 inches in diameter; tapes up to 1 inch in width (the Ampex Series 300 are the only recorders that will accommodate more than one-half inch tape). Flutter and wow have been virtually eliminated due to rigid unit assembly, carefully designed precision capstan drive, massive flywheel and longer tape path. Tape skewing is non-existent; starts and stops are instantaneous.

Controls Record, Start and Stop buttons are recessed so that they will not be accidentally pressed; all can be remote controlled. A Fast Start/Slow Start switch allows the capstan motor to remain in "on" or "standby" position.

Long-life precision heads The rugged construction and carefully controlled fabrication assures uniform characteristics during their exceptionally long life. Ampex magnetic heads tested after 15,000 to 18,000 operating hours still meet published specifications in virtually every instance.

Precision Alignment Ampex Multi-Channel recorders add an additional element of quality: the precision manufacture and alignment of the Multi-Channel heads. They are so perfect, so uniform, that tapes recorded on an Ampex Multi-Channel can be played with perfect results on any other Ampex Multi-Channel anywhere in the world without phase shift between channels.

MULTI-CHANNEL / STEREO VERSIONS



Stereophonic recording The commercial recording industry has adopted three or four channels as the optimum in master stereophonic recording. Ampex Multi-Channel models are finding increasing use among professionals who wish to eliminate any possibility of the "hole-in-the-middle" effect. The three or four channel master is transferred to a two channel version for commercial release by mixing the middle channel or channels with the two outer channels.

Two to eight channel Ampex Series 300 Recorders are available. Depending upon the number of channels involved, they can be ordered as consoles, or unmounted for rack or portable installation. An Ampex 300 Recorder, purchased as a single channel version, may later be converted up to three channels with available kits.

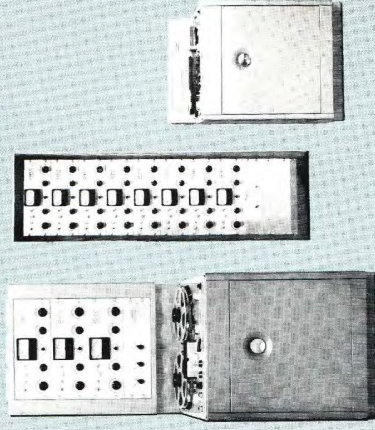
SEL-SYNC* An exclusive Ampex feature that is optional on any Multi-Channel recorder, SEL-SYNC is a switching system that permits converting any of the recording heads to serve as a temporary playback head, while the others are still recording. This permits recording sound-on-sound, or adding a missing soloist to previously recorded music, all in perfect synchronization. It is SEL-SYNC on an 8-channel Ampex Series 300 that has enabled Les Paul and Mary Ford to make their world-famous recordings.

Model 300-2M This is actually a two-channel machine especially designed to produce a four-track, half-inch, intermediate master. The master is used on the Ampex 3300 High-Speed Duplicator to produce 1/4" 4-track stereo tapes for commercial release.

Single Channel Version Available as a single channel recorder in console, or unmounted for rack or portable installation, the Model 300 is unexcelled as a general purpose recorder. They are widely used in radio and professional recording studios throughout the world.

*SEL-SYNC (Selective Synchronization)™ AMPEX CORP.

MASTER QUALITY AT LOWEST COST



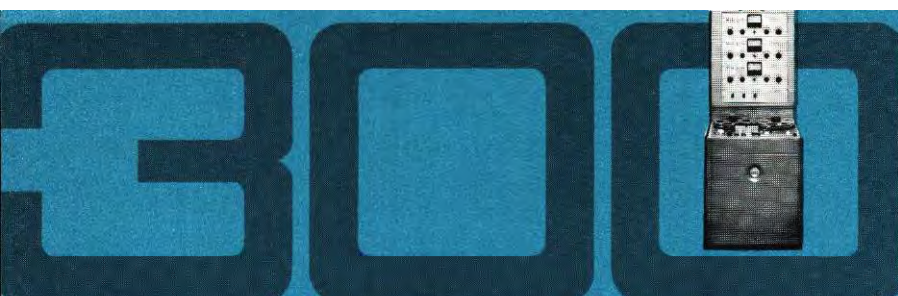
The uncompromising quality characteristics . . . both electronic and mechanical . . . inherent in the Ampex Series 300 result in superiority of performance and exceptionally long, trouble-free operation. Maintenance requirements, servicing needs, and out-of-service time are negligible or non-existent. For mechanical stability . . . rugged, precision manufacture . . . reserve operating capacities . . . and wide range recording abilities . . . the Ampex 300 is the recorder of preference for heavy, continuous service. On a cost-per-hour basis, the outstanding dependability and durability of Ampex recorders make them the most economical of any recorder made!

Ampex Series 300 Recorders are guaranteed to meet all published specifications.

Ampex Series 300 Tape Recorders are designed to fulfill the demands of the professional recording industry in producing the finest quality monophonic and stereo masters. Their world-wide acceptance as the standard of excellence is documented by the fact that Ampex 300's completely dominate the professional master recording industry throughout the world.

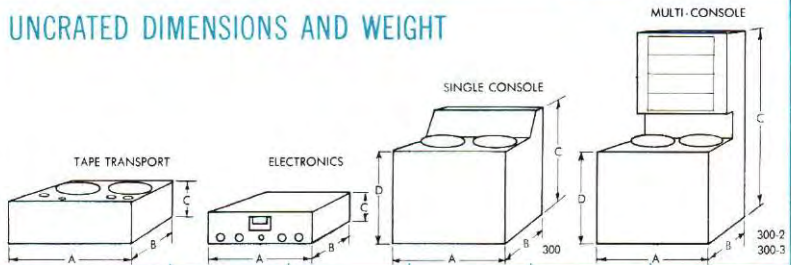
This recognition of superiority is based primarily on Ampex quality . . . achieved through a combination of Ampex engineering — use of the finest components — and mechanical skill and know-how. The result is a precision recorder that assures complete dependability of audio and mechanical performance . . . and continuity of service year after year.

Series 300 Recorders are available for a wide choice of mountings . . . with three different equalizations, including the exclusive AME (Ampex Master Equalization). Multi-Channel versions are available in from two to eight channels. Whatever the recording application . . . there is an Ampex Series 300 ideally suited to do the job best.



STANDARD HEAD TYPES—SERIES 300

UNCRATED DIMENSIONS AND WEIGHT



DIMENSION	A	B	C	D	WEIGHT UNCRATED
TRANSPORT	24 1/4"	19"	10 1/2"	—	67 lbs.
ELECTRONICS	19"	7 3/8"	7"	—	19 1/2 lbs.
SINGLE CHANNEL CONSOLE	25 1/4"	26"	36 1/4"	30 1/4"	195 lbs.
TWO CHANNEL CONSOLE	25 1/4"	26"	64 1/8"	30 1/4"	252 lbs.
THREE CHANNEL CONSOLE	25 1/4"	26"	64 1/8"	30 1/4"	288 lbs.

NOTE: Multi-Channel Recorders of 4 to 8 channels may be supplied in console and rack combinations, with transport mounted in single channel console and electronics in separate rack.

TYPE	ERASE	RECORD	PLAYBACK
300 FULL TRACK		SAME	SAME
300-2 STEREO		SAME	
300-2M SPL. MASTER STEREO		SAME	
300-3 3 TRACK		SAME	
300-4 4 TRACK		SAME	
300-8 8 TRACK		SAME	

SPECIFICATIONS

FREQUENCY RESPONSE	15 ips = ±2 db 30 - 15,000 cps 7 1/2 ips = ±2 db 40 - 10,000 cps ±4 db 30 - 15,000 cps
SIGNAL-TO-NOISE RATIO	Peak record level to unweighted noise (db) 7 1/2 or 15 ips. 60 db = full track 55 db = 2 and 3 track Peak record level defined as highest level at which overall (input to output) total rms harmonic distortion does not exceed 3% when measured on 400 cycle tone. Noise is measured when erasing signal of peak recording level in absence of new signal. Thus, bias and erase noise are included as well as playback amplifier noise. All frequencies measured from 50 - 15,000 cycles.
FLUTTER AND WOW	15 ips — less than 0.1% rms 7 1/2 ips — less than 0.2% rms All frequencies measured from 0 - 300 cycles.
PHASING	All channels in phase when simultaneously recording and playing back a mid-frequency range test signal.
CROSS TALK REJECTION	50 db on standard Multi-Channel models 60 db on 300-2M Special Master
STARTING TIME	To full speed: 1/10 sec. for 1/4" tape 1/2 sec. for 1/2" tape
STOPPING TIME	15 ips = -2" of tape past heads 7 1/2 ips = -1" of tape past heads
TIMING ACCURACY	0.2% or ±3.6 sec. for 30 min. recording
REWIND TIME	1 min. approx. for full 10 1/2" reel (2400 ft.)
CONTROLS	Stop, Start, Record — push button, relay operated; remote control optional. Normal Play, Fast Forward, Rewind — on selector switch which may be changed from one mode to another without stopping in between. Multi-Channel recorders have separate button on electronics panel that energizes record relay for that channel only. Relay drops out when Stop button is depressed. Operation of Record button on tape transport actuates record relays on all channels.

MONITORING	Independent record and playback systems allow tape to be monitored while recording.
EQUALIZATION	Single channel: speed selector switch selects proper NAB equalization for the given speed. Multi-Channel: switch on electronics panel selects 7.5 NAB, 15 NAB or 15 AME. CCIR equalization available on special order.
INPUTS	Single channel: balanced or unbalanced + 4VU bridging inputs. Multi-Channel: switch selects low impedance microphone, balanced or unbalanced + 4VU bridging inputs.
OUTPUTS	Single channel: 600 ohm, +4VU, (+4 DBM) balanced or unbalanced. Multi-Channel: 600 ohm, +8VU, (+8DBM) or +4VU, (+4DBM) by restrapping, balanced or unbalanced.
POWER INPUT REQUIRED	117 volts, 60 cycles (also available for 50 cycles). Single channel recorders require 3 amperes, add 0.5 amperes for each additional channel.

AMPEX 300 SERIES MAGNETIC TAPE RECORDERS

STANDARD MODELS	All with in-line heads; dual speed 7 1/2 and 15 ips. 300 — single channel, full track, 1/4" tape width 300-2 — two channel, 1/4" tape width 300-2M — two channel, 1/2" tape width (special heads for four track masters) 300-3 and 4 — three and four channel, 1/2" tape width, with or without SEL-SYNC.
SPECIAL MODELS	300-6 and 8 — six and eight channel, 1" tape width, with or without SEL-SYNC. Special head configurations and operating speeds from 1 7/8 to 30 ips are also available through the Ampex Special Audio Products Dept.
MOUNTING	All models up to three channels available mounted in consoles, or unmounted for rack or portable installation. Four channel to eight channel available in console and rack combination, or uncased.



Offices and Representatives in Principal Cities Throughout the World

Audio Products Division
AMPEX PROFESSIONAL PRODUCTS COMPANY
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AMPEX CORPORATION
AUDIO DIVISION

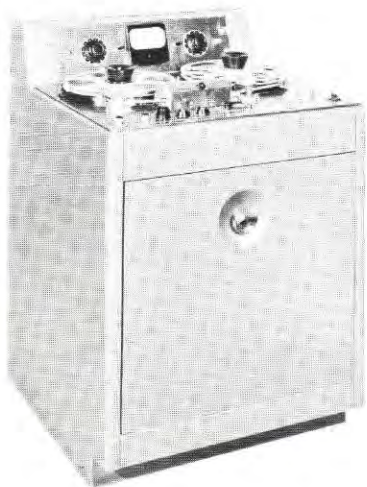
DOMESTIC PRICE LIST
SUPERSEDES ALL PREVIOUS SCHEDULES

300 SERIES MASTER RECORDERS/REPRODUCERS

EFFECTIVE JUNE 18, 1962

DEALER FRANCHISE: MASTER

MODEL
300
300-2
300-3
300-3SS
300-4SS



300 SERIES MASTER TAPE RECORDERS

Unexcelled performance verified by the continued domination of these units in the professional master recording industry. Available in single or multi-channel models (2 to 8 channels), up to three equalizations and a variety of mounting types. Transport uses three precision, heavy-duty motors.

Rigid unit assembly virtually eliminates flutter and wow; massive flywheel, precision capstan drive and long tape path assure no skewing. Starts and stops instantaneously. Fast/slow start switch permits "on" and "stand-by" capstan motor operations; provisions made for remote control. Precision head alignment assures perfect playback of multi-channel recordings. Exclusive "Sel-Sync" optional feature provides switching to convert any of the heads to serve as temporary playback while others are still recording; permits sound-on-sound recording and other special effects. A-B switch allows monitoring by VU meter, headphones plugged into front panel, or by line-connected studio monitor circuit. Sel-Sync* only available on units with 3 or more channels.

All models available in console or unmounted configuration.

CHANNEL	SINGLE		TWO		THREE		THREE with Sel-Sync*		FOUR with Sel-Sync*		300 SERIES General Information		
											<p>EQUALIZATION — Standard NAB only on single channel models; 7½ NAB, 15 NAB, and 15 AME on multiple channel models.</p> <p>DUPLICATOR MASTER — For making 4-track copies; used in high-speed duplication — available on special quotation.</p> <p>SPECIAL VERSIONS — Tape speeds from 1⅞ to 30 ips, special heads and versions with up to 8 channels — available on special quotation.</p> <p>300-4 WITHOUT SEL-SYNC* available — deduct \$400.00 from 300-4SS user price.</p>		
	300		300-2		300-3		300-3SS		300-4SS		CONSOLE CABINETS		
DESCRIPTION	Full Track ¼" Tape		Two Track ¼" Tape		Three Track ½" Tape		Three Track ½" Tape		Four Track ½" Tape		SINGLE CHANNEL RECORDER CABINET	WITH ELECTRONICS HOUSING —UP TO 3 CHANNELS	ELECT. HOUSING ONLY—3 CHANNELS
TAPE SPEEDS	7½ 15	7½ 15	7½ 15	7½ 15	7½ 15	7½ 15	7½ 15	7½ 15	7½ 15	7½ 15			
MODEL NUMBER	300-U UNMTD.	300-C CONSOLE	300-2U UNMTD.	300-2C CONSOLE	300-3U UNMTD.	300-3C CONSOLE	300-3SSU UNMTD.	300-3SSC CONSOLE	300-4SSU UNMTD.	300-4SSC CONSOLE			
CATALOG NUMBER	7425-01	7425-03	30902-01	30902-03	30903-01	30903-03	30903-05	30903-07	30904-01	30904-03	565-00	565-08	30874-01
SUGGESTED USER'S PRICE	\$2395.	\$2630.	\$3490.	\$3815.	\$4374.	\$4698.	\$4800.	\$5124.	\$5576.	\$5900.	\$238.	\$375.	\$175.

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AUDIO DIVISION**



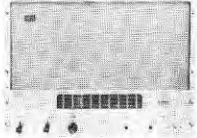
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SUPERSEDES ALL PREVIOUS SCHEDULES

PROFESSIONAL/MASTER ACCESSORIES

EFFECTIVE JUNE 18, 1962

DEALER FRANCHISE:
PROFESSIONAL- MASTER

**ACCESSORIES
FOR:
300
350
3000
PR-10**

GENERAL ACCESSORIES	DESCRIPTION	SPECIFICATIONS — USE	CATALOG NUMBER	USER NET PRICE
	MIXER, MODEL MX-10 — Four position, two channel mixer, feeds 4 or 2 mike and 2 line inputs to either or both channels.	For PR-10 Series and general use; unmounted	96900-01	\$395.00
	MIXER, MODEL MX-35 — Four position, two channel mixer, feeds 4 or 2 mike and 2 line inputs to either or both channels.	For 350 and 300 Series and general use; unmounted	96910-01	395.00
	SPEAKER/AMPLIFIER, MODEL SA-10 — 40 watt voltage regulated amp with low distortion at low frequencies — has amplifier compensation switch. (See below for mike preamp.)	Speaker/Amplifier, unmounted	96975-01	295.00
		Speaker and Enclosure, only	96980-01	120.00
		40 watt Amplifier, only	96950-01	175.00
		Portable Case	96960-01	60.00
	REMOTE CONTROL — For use with 351/352/354/PR-10	Wired (in box with 30' cord)	96510-01	50.00
		Panel Type (less cord)	96520-01	42.00
	LINE INPUT TRANSFORMERS — For use with PR-10/MX-10/SA-10/354/MX-35	Balanced Bridge	96134-01	14.50
		Matching 600 ohm	96134-02	14.50
	MICROPHONE PREAMPS — For use with PR-10/354 and SA-10	40 db (PR-10, 354)	96440-01	45.00
		60 db (PR-10, 354)	96440-04	60.00
		SA-10	96440-03	45.00
	HEAD DEMAGNETIZERS —For use with all series		820	9.95
	APPROVED CLEANING FLUID — For use with all series	4 oz. can	823	1.45
	APPROVED LUBRICATING OIL — For use with all series	4 oz. bottle	827	.95

STANDARD ALIGNMENT TAPES (See description and price, Sheet No. 1344-1345)

350 SERIES ACCESSORIES

	MODEL 354 RECORD PLUG-IN EQUALIZERS — (one per channel required)	7½ NAB — 15 NAB	96121-01	9.90
		3¾ NAB (Spec. 120 or 200 μsec.)—7½ NAB	96120-01	9.90
		7½ NAB — 15 AME	96122-01	9.90
	MODEL 354 REPRODUCE PLUG-IN EQUALIZERS — (one per channel required)	7½ NAB — 15 NAB	96111-03	9.90
		3¾ (120 μsec) — 7½ NAB	96110-03	9.90
		7½ NAB — 15 AME	96112-03	14.50
		3¾ (200 μsec) — 7½ NAB	96114-03	9.90
MODEL 351 — Operation and Maintenance Manual		(Furnished with Recorder)	TM-2002A	4.00
MODEL 352 — Operation and Maintenance Manual		(Furnished with Reproducer)	TM-2004	3.00
MODEL 354 — Operation and Maintenance Manual		(Furnished with Recorder)	TM-2011B	4.00
300 SERIES ACCESSORIES				
MODEL 300 — Operation and Maintenance Manual		Single Channel (Furnished with recorder)	TM-2013	4.00
MODEL 300 — Operation and Maintenance Manual		Multi-Channel (Furnished with recorder)	TM-2005	4.00
3000 SERIES ACCESSORIES				
3200 SYSTEM — Operation and Maintenance Manual		(Furnished with each unit)	TM-2008	4.00
3300 SYSTEM — Operation and Maintenance Manual		(Furnished with each unit)	TM-2007	4.00