

FOR FINE SOUND ALL AROUND

Bob Fine, of *Fine Sound Inc.* has

standardized on audiotape audiodiscs audiofilm



C. Robert Fine, President, and Al Mian, Chief Mixer, at master control console of Fine Sound, Inc., 711 Fifth Ave., New York City.

... because "No other sound recording media have been found to meet our exacting requirements for consistent, uniform quality."

In professional circles Bob Fine is a name to reckon with. His studio, one of the country's largest and best equipped, cuts the masters for over half the records released each year by independent record manufacturers. Movies distributed throughout the world, filmed TV broadcasts, transcribed radio broadcasts, and advertising transcriptions are recorded here at Fine Sound, Inc., on Audio products.

Every inch of tape used here is Audiotape. Every disc cut is an Audiodisc. And now, Fine Sound is standardizing on Audiofilm. That's proof of the consistent, uniform quality of all Audio products: these Fine Sound craftsmen use them exclusively.



audiotape the finest magnetic recording tape you can buy — known the world over for its outstanding performance and fidelity of reproduction. Now available on 1/2-mil, 1-mil and 1 1/2-mil polyester film base, as well as standard plastic base.



audiodiscs exceed the most exacting requirements for highest quality professional recordings. Available in sizes and types for every disc recording application.



audiofilm magnetically coated on standard motion picture film base, provides highest quality synchronized recordings for motion picture and TV sound tracks.

To get the most out of your sound recordings, now and as long as you keep them, be sure to put them on Audiotape, Audiodiscs or Audiofilm. THEY SPEAK FOR THEMSELVES.

* Trade Mark

AUDIO DEVICES, Inc.

444 MADISON AVE., NEW YORK 22, N. Y.

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audio record

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AUDIO DEVICES, INC.

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audiodiscs
audiotape
audiofilm
audiopoints



1955-1956 TAPE RECORDER DIRECTORY

PRINTED
IN U.S.A.

QUICK FACTS ON MAGNETIC TAPE RECORDERS

(Additional Information can be obtained by writing to the manufacturer)

Manufacturer	Model and Price	Frequency Response	Data
AMPEX ELECTRIC CORPORATION 934 Charter St. Redwood City, California	 Model 612 Stereophonic Tape Phonograph \$395.00 Model 610 Monaural Unit \$359.50	40-15,000 cycles (± 2 db) at $7\frac{1}{2}$ " / sec. (on playback of Ampex standard type)	Tape playback unit only, for fine reproduction of single track, dual track, or stereophonic (in-line head) pre-recorded tapes at $7\frac{1}{2}$ " / sec. Max. reel size, 7". Flutter and wow, below 0.25%. Two separate amplifiers, one for each track, are used on Model 612. Prices cover "brunette" furniture cabinet. "Blonde" furniture cabinet, \$10.00 additional.
	Model 620 Amplifier-Speaker in matching cabinet \$169.50		Amplifier speaker in Contemporary style hand-rubbed "brunette" furniture. "Blonde" furniture, \$10.00 additional. Use two 620s with 612 tape phonograph for stereophonic sound system.
	 Model 600 Portable Tape Recorder \$545.00	40-15,000 cycles (± 4 db) at $7\frac{1}{2}$ " / sec. (± 2 db 40 to 10,000 cycles)	Portable, professional-type single-track recorder with $7\frac{1}{2}$ " tape speed. Takes up to 7" reels for 30 minutes recording time. Signal-to-noise, over 55 db. Flutter and wow, below 0.25%. Starting and stopping time, less than 1 second. Fast forward and rewind, 90 seconds for 7" reel. Timing accuracy $\pm 0.2\%$ for 30 minute recording. Separate record and playback amplifiers. Separate erase, record and playback heads. VU meter, independent level controls for microphone and line, phone jack for monitoring input or tape while recording. Weight, 28 lb.
	 Model 300-C Console Tape Recorder \$2046.00	30-15,000 cycles (± 2 db) at 15 " / sec. 40-15,000 cycles (± 4 db) at $7\frac{1}{2}$ " / sec. (± 2 db 40 to 10,000 cycles)	Professional-type, single-track, dual-speed recorder operating at 15 " and $7\frac{1}{2}$ " per sec. Signal-to-noise, over 60 db by NAB standards. Instant start and stop. Flutter and wow, less than 0.1% at 15 " / sec. Rewind time, 1 min. for 2400-ft. reel. Timing accuracy, $\pm 0.2\%$. Push button controls for start, stop and record—may be remotely operated. Separate long-life, plug-in heads for erase, record and playback. Other features as on Model 350C below. Also available for portable or rack mounting.
	 Model 350-C Console Tape Recorder \$1315.00	30-15,000 cycles (± 2 db) at 15 " / sec. 30-15,000 cycles (± 4 db) at $7\frac{1}{2}$ " / sec. 50-7,500 cycles (± 2 db) at $3\frac{3}{4}$ " / sec.	Professional-type single or dual-track recorder with tape speeds of $7\frac{1}{2}$ " and 15 " or $3\frac{3}{4}$ " and $7\frac{1}{2}$ ". Signal-to-noise, 60 db (single track) or 55 db (dual track). Flutter and wow, less than 0.2% at 15 " / sec. Instantaneous starting. Rewind time, 1 min. for 2400 ft. reel. Timing accuracy, $\pm 0.2\%$. Push-button controls for start, stop, fast forward and rewind. Independent record and playback systems permit monitoring input or tape during recording or playback. Also available for portable or rack mounting.
	Model 350 Stereophonic Recorders 350-2P, Two-Channel — \$1,953.00 350-3P, Three-Channel — \$2,514.00	(same as for Model 300C above)	Separate recording and playback amplifiers for each channel in multi-channel record and playback heads. Individual meter and control panels for each channel. Recorder unit same as Model 350 machine.
AMPLIFIER CORPORATION OF AMERICA 398 Broadway New York 13, N. Y.	 Model 352-C Tape Reproducer \$935.00	30-15,000 cycles (± 2 db) at 15 " / sec. 30-15,000 cycles (± 4 db) at $7\frac{1}{2}$ " / sec. (± 2 db 40 to 10,000 cycles)	Console-type reproducing unit for playback of $7\frac{1}{2}$ " and 15 ips, full-track or dual-track tapes. Provides up to 2 hours, 8 min. playing time on $10\frac{1}{2}$ " reel. Signal-to-noise, over 60 db. Flutter and wow, under 0.2% at 15 " / sec. Timing accuracy within ± 3.6 seconds for half-hour program. Instant starting and stopping. Rewind time, one min. for 2400-ft. reel. Push button control, tape-speed equalization and reel-size tension adjustment. No erase or record heads—hence no danger of accidental erasure.
	Other Equipment:		Model 450-C Continuous Tape Reproducer and Model S-3200 Tape Duplicating Systems. Information on request.
AMPLIFIER CORPORATION OF AMERICA 398 Broadway New York 13, N. Y.	 Model 610-A Tape Speed $1\frac{1}{2}$ i.p.s. Long-Playing "Magnemite" \$275	300-2500 cycles	Completely self-contained, battery-operated portable with spring motor drive. Flutter, $\pm 0.25\%$ over full 30-min. winding cycle. Dual-track recording provides total of 4 hours playing time on 5" reel. Indicator light signals 30 seconds before motor rewind. Playback through headphones or external amplifier. Incoming signal can be monitored while recording. Overall dimensions, 11" by 8" by 5". Weight, 12 lb.

COLORED AUDIOTAPE (on colored plastic base)



Green and blue colored Audiotape, in conjunction with the standard red-brown tape, provide instant visual identification of recorded selections spliced into a single reel (as shown above) — permit fast and easy color cueing and color coding. Eliminate need for identifying leaders between selections.

Color	Length	Reel	Type No.	List Price Each
Green	150 ft.	3" Plastic	151 G	\$ 0.85
	300 ft.	4" Plastic	351 G	1.60
	600 ft.	5" Plastic	651 G	3.50
	1200 ft.	7" Plastic	1251 G	5.50
	2500 ft.	NARTB Hub NARTB $10\frac{1}{2}$ " Aluminum Reel	2551 HG 2551 RG	10.00 12.85
	5000 ft.	NARTB Hub NARTB 14" Aluminum Reel	5051 HG 5051 RG	20.00 26.00
Blue	150 ft.	3" Plastic	151 B	\$ 0.85
	300 ft.	4" Plastic	351 B	1.60
	600 ft.	5" Plastic	651 B	3.50
	1200 ft.	7" Plastic	1251 B	5.50
	2500 ft.	NARTB Hub NARTB $10\frac{1}{2}$ " Aluminum Reel	2551 HB 2551 RB	10.00 12.85
	5000 ft.	NARTB Hub NARTB 14" Aluminum Reel	5051 HB 5051 RB	20.00 26.00

COLORED AUDIOTAPE REELS (empty reels in individual boxes)

These plastic Audiotape reels, in attractive jewel-tone colors, provide many opportunities for color coding recorded material — as to tape speed, single or dual track, subject matter, etc.

Reel	TYPE NO.				List Price Each
	Red	Yellow	Green	Blue	
5" Empty Plastic Reel	5 PBR	5 PBY	5 PBG	5 PBB	\$0.55
7" Empty Plastic Reel	7 PBR	7 PBY	7 PBG	7 PBB	0.85

EMPTY AUDIOTAPE REELS (clear plastic and aluminum)



Standard tape reels in sturdy individual boxes for convenient handling and storage. Box for $10\frac{1}{2}$ " and 14" reels has special folding inner sleeve of strong corrugated board for added safety in handling and storage.

Reel	Type No.	List Price Each
3" Clear Plastic Reel, in Box	3 PB	\$ 0.25
4" Clear Plastic Reel, in Box	4 PB	0.40
5" Clear Plastic Reel, in Box	5 PB	0.55
7" Clear Plastic Reel, in Box	7 PB	0.85
$10\frac{1}{2}$ " NARTB Aluminum Reel, in Box	10 RB	4.50
Pair of $10\frac{1}{2}$ " Aluminum Side Flanges, with Screws	10 S	3.35
14" NARTB Aluminum Reel, in Box	14 RB	8.70
Pair of 14" Aluminum Side Flanges, with Screws	14 S	7.25
NARTB Aluminum Hub (Without Box)	10 H	0.65

CORRUGATED MAILING BOXES (strong, re-usable containers)



Ideal for tape "correspondence groups" or wherever frequent mailing of recorded material is required.

Size	Type No.	List Price Each
For 5" Reels	5 M	\$ 0.15
For 7" Reels	7 M	0.20
For $10\frac{1}{2}$ " Reels	10 M	0.30



THE COMPLETE audiotape LINE

PLASTIC BASE AUDIOTAPE

The finest, professional-quality tape obtainable — especially formulated to provide the *balanced performance* which is essential to the most faithful reproduction of the original live sound throughout the entire audible frequency range. Assures maximum fidelity, uniformity, frequency response and freedom from noise and distortion.

Length	Reel	Type No. ‡	List Price Each
150 ft.	3" Plastic	151	\$ 0.85
300 ft.	4" Plastic	351	1.60
600 ft.	5" Plastic	651	3.50
1200 ft.	7" Plastic	1251	5.50
2500 ft.	NARTB Hub NARTB 10½" Aluminum Reel	2551 H 2551 R	10.00 12.85
5000 ft.	NARTB Hub NARTB 14" Aluminum Reel	5051 H 5051 R	20.00 26.00

TYPE ^{Longer} **R** AUDIOTAPE on 1 mil "Mylar"

Provides 50% more recording time on a single reel of tape. Same super-quality magnetic oxides as Plastic Base Audiotape, but uses base material of 1 mil "Mylar" polyester film having much higher tensile and tear strength than cellulose acetate of the same thickness.

Length	Reel	Type No. ‡	List Price Each
225 ft.	3" Plastic, in Self-Mailer Box	261	\$ 1.10
900 ft.	5" Plastic	961	4.40
1800 ft.	7" Plastic	1861	7.95
3600 ft.	NARTB Hub NARTB 10½" Aluminum Reel	3661 H 3661 R	16.00 17.95

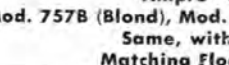
AUDIOTAPE ON ^{*}Mylar POLYESTER FILM

* DuPont Trade Mark

High-strength, super-durable magnetic recording tape that meets the highest professional standards of performance. Made on polyester film, it withstands extreme temperatures, is virtually immune to humidity, and gives maximum tape life under any conditions of use or storage. Available in three base thicknesses to meet individual recording requirement for various applications.

Thickness of Base	Length	Reel	Type No. ‡	List Price Each
1 Mil	300 ft.	4" Plastic	361	\$ 2.20
	600 ft.	5" Plastic	661	4.25
	1200 ft.	7" Plastic	1261	6.85
	2500 ft.	NARTB Hub NARTB 10½" Reel	2561 H 2561 R	12.50 15.35
1½ Mil (standard)	300 ft.	4" Plastic	371	2.75
	600 ft.	5" Plastic	671	5.00
	1200 ft.	7" Plastic	1271	8.25
	2500 ft.	NARTB Hub NARTB 10½" Reel	2571 H 2571 R	15.00 17.85
2 Mil	500 ft.	5" Plastic	581	5.00
	1000 ft.	7" Plastic	1081	8.25
	2000 ft.	NARTB Hub NARTB 10½" Reel	2081 H	15.00
			2081 R	17.85

‡ Type Numbers listed cover red oxide tape wound on reel with OXIDE FACING IN. Tape wound with Oxide Out can be supplied if desired, and is identified by the same Type Number except that the last digit is changed from "1" to "0".

Manufacturer	Model and Price			Frequency Response	Data
AMPLIFIER CORPORATION OF AMERICA 398 Broadway New York 13, N. Y. (other models available)		Model	Speed in/sec.	Price	
		610-B	1 7/8	\$225	100- 3,000 cps
		610-C	3 3/4	255	50- 5,000 cps
		610-TD	7 1/2	275	50- 7,500 cps
		610-SD	7 1/2	295	50- 7,500 cps
		610-E	15	335	50-15,000 cps
	4-Speed "Magnemite"	610-EM	15 7 1/2 3 3/4 1 7/8	395	50-15,000 cps
		610-DM	7 1/2 3 3/4 1 7/8 15/16	355	50- 7,500 cps
	Multiple-Speed VU "Magnemite"	610-DEV	15 7 1/2	445	50-15,000 cps
		610-CDV	7 1/2 3 3/4	405	50- 7,500 cps
		610-BCV	3 3/4 1 7/8	365	50- 5,000 cps
		610-ABV	1 7/8 15/16	345	100- 3,000 cps
AMPRO CORPORATION 2835 North Western Ave. Chicago 18, Ill.		"Flyweight Magnemite"			
		310-A	15/16	340	300- 2,500 cps
		310-B	1 7/8	290	100- 3,000 cps
		310-C	3 3/4	320	50- 5,000 cps
		310-TD	7 1/2	340	50- 7,500 cps
		310-SD	7 1/2	360	50- 7,500 cps
		310-E	15	400	50-15,000 cps
		"Secret Recorder"			
		210-B	1 7/8	349	100- 3,000 cps
		210-BC	1 7/8 3 3/4	369	100- 3,000 cps 50- 5,000 cps
		Ampro "Career" Model 745 \$159.50			60-11,000 cycles at 7 1/2"/sec. 70-6,000 cycles at 3 3/4"/sec.
AMPRO CORPORATION		"Hi-Fi Two Speed"			
		Model 757 \$239.95 Model 757T \$274.45			40-12,500 cycles at 7 1/2"/sec. 40-6,000 cycles at 3 3/4"/sec.
		Ampro "Classic" Model 757A \$257.50 Model 757AT \$292.00 ("T" in Model Nos. above designates Radio Tuner)			40-12,500 cycles at 7 1/2"/sec. 40-6,000 cycles at 3 3/4"/sec.
		Ampro "Consolette" Mod. 757B (Blond), Mod. 757M (Mahogany) \$279.95 Same, with radio tuner 314.45 Matching Floor Stand \$17.50			Same as Model 757
AMPRO CORPORATION					Model 757 (or 757T) recorder enclosed in table-type console with storage space for 45 hours of tape recordings. Incorporates amplifier bypass for playback through external hi-fi system if desired.

Manufacturer	Model and Price	Frequency Response	Data
BELL & HOWELL COMPANY 7100 McCormick Rd. Chicago 45, Ill.	 Bell & Howell "MIRACLE 2000" Model 300-M (dark mahogany) \$299.50 Model 300-B (blond mahogany) \$314.50	50-12,000 cycles (± 2 db) at 7 1/2"/sec.	Table model dual-track recorder with tape speeds of 7 1/2" and 3 3/4" per sec. Three separate motors: for drive capstan, feed reel and take-up reel. Push button controls with safety interlock to prevent accidental erase. Speaker system consists of two 8" "woofers" on opposite sides of case and two electrostatic "tweeters" behind front grille. Each electrostatic speaker is provided with 1000 small apertures which act individually as miniature loud speakers. Power output, 10 watts. Input jack for microphone, radio or phonograph. Simple drop-in threading. Combination radio-phonograph-tape recorder units (including the "Miracle 2000") are also available, ranging from approximately \$500 to \$2,000. Information on request.
	 Model RT-75 Three-Speed Recorder \$164.95	30-12,000 cycles at 7 1/2"/sec. 30-7,500 cycles at 3 3/4"/sec. 50-4,500 cycles at 1 7/8"/sec.	Portable dual-track recorder with single-lever speed selector for 7 1/2", 3 3/4" or 1 7/8" per second. Pushbutton recording switch with safety interlock. Fast forward and rewind. Neon recording level indicator. 6" x 9" oval speaker. Two microphone inputs and one radio-phonograph input. Outputs for external speaker and external amplifier. Power output, 3.5 watts. Crystal microphone included. Weight, 35 lb.
BELL SOUND SYSTEMS, Inc. Columbus 7, Ohio	 Model RT-88 Two-Speed Recorder \$139.95	50-10,000 cycles at 7 1/2"/sec.	Dual-track recorder with tape speeds of 7 1/2" and 3 3/4" per second. Pushbutton controls for tape speed, record, play, fast forward, rewind and stop. Separate tone and volume controls. Neon recording level indicator. Three-motor operation. Inputs for microphone and radio-phonograph. Outputs for external loudspeaker and monitor headphones. Power output, 3.5 watts. Weight, 27 lb.
	 Cub-Corder Model 2260 (7 1/2 and 3 3/4"/sec.) Model 2261 (3 3/4 and 1 7/8"/sec.) \$224.95	200-6,000 cycles at 7 1/2"/sec.	Dual-track, two-speed battery operated portable. Has microphone with built-in monitor playback level, miniature transmitter for playback thru radio without connections to set, and wet cell batteries that can be recharged from car cigarette lighter outlet. Output for external amplifier. Fast forward and rewind, 37"/sec. Includes ceramic microphone, shoulder strap, battery charger cable, battery syringe, one 600-ft. reel of tape and take-up reel. Weight, 12 7/8 lb.
BERLANT ASSOCIATES 4917 West Jefferson Blvd. Los Angeles 16, California	 "Concertone" 20/20 Series Model TWR-2 Recorder and TWPA-10 Amplifier-Speaker Unit, in portable cases \$595.00 complete		Professional type dual-track, two-speed recorder available in portable cases or for custom installation. Signal-to-noise ratio, 55db. Total harmonic distortion, 2% at Zero V.U. Total flutter and wow, less than 0.1% RMS at 15"/sec. Rewind and fast forward, less than 60 sec. for 2500 ft. V.U. meter reads record level, output level, bias current. Monitors from tape or input. Includes 3 heads, with provision for 2 more. Three motor drive. A-B test fader and 2-channel mixer for mike and line inputs. Also available in stereo-monaural and single-track models. Weight, 45 lb. total.
	 Berlant Series X Recorders Model BRX-1 \$595.00 Model BAX-1 (Automatic) \$745.00	40-15,000 cycles (± 2 db) at 15"/sec. 40-15,000 cycles (± 4 db) at 7 1/2"/sec.	Professional type broadcast recorders with single-track erase and record heads and dual-track playback. Plays both single and dual-track tapes. Automatic model, solenoid operated. Performance data same as for 20/20 series above. Timing accuracy, better than 99.8%. Three motors, including new improved hysteresis synchronous direct drive motor. Two-channel input mixer, tape motion regulator, A-B test fader and provision for five heads. Adjustable bias and simplified cueing and editing. Monitors from tape or input. Also available in console and portable units.
	 Berlant Stereo-Monaural Recorder Model SBX-4 \$845.00 Model SBAX (Automatic) \$995.00		Same as Series X above, except with four heads and two amplifier units for extremely versatile stereophonic and binaural recording. Each machine operates as 2 independent recorders using a common reel of tape with the two channels capable of being operated either separately or in conjunction with each other. Records and plays back single or dual track, monaural or binaural. Channel Integrator (\$19.95) permits sound-on-sound recording with a single recorder, without erasing previously recorded tracks. Model SBAX unit is solenoid operated.

Manufacturer	Model and Price	Frequency Response	Data
WILCOX-GAY CORPORATION Charlotte, Michigan	 Recordio "Prestomatic" Recorders Model 5A \$129.95 Model 5M \$149.95 Model 5B \$169.95 Model 5F \$199.95	85- 8,000 cycles 80- 8,500 cycles 80-10,500 cycles 70-10,500 cycles	Portable, dual-track recorders with tape speeds of 7 1/2" and 3 3/4" per second. Signal-to-noise ratio, 35 db minimum. Pushbutton operated with interlock to prevent accidental erase. Two neon recording level indicators. Fast forward and rewind, less than 2 3/4" min. for 1200 ft. Inputs for microphone and radio-phonograph. Output for external speaker. Crystal microphone included. Model 5A: 4" round speaker. Weight, 26 lb. Model 5M: 5" x 7" elliptical speaker. Weight, 28 lb. Model 5B: One 4" and one 5" x 7" speaker. Visual tape index. Weight, 28 lb. Model 5F: Two 5" x 7" speakers. Visual tape index. Weight, 35 lb.
	 Recordio "Prestomatic" Model 5U \$269.95	65,15,000 cycles	Portable dual-track recorder with tape speeds of 7 1/2" and 3 3/4" per second. Signal-to-noise, 35 db minimum. Wow and flutter 0.20% at 7 1/2" per second. Machine features same as for Model 5F above. Includes two 5" x 7" woofers and two electrostatic tweeters, three extension speaker jacks, remote stop-start control and crystal microphone with switch. Playback switch permits using mike while playing or recording or when using set as phono amplifier. Weight, 45 lb.
	Tape-Disc Recordio Model 4C-10 \$199.95	80-6,000 cycles at 3 3/4"/sec.	Portable combination tape and disc recording and reproducing unit with 3 3/4" tape speed and 78 rpm disc speed. Records tape, discs, tape to disc or disc to tape. Weight, 30 lb.

All specifications and performance data on tape recorders listed in this directory are based on information supplied by the manufacturer. Performance data are generally based on average values and individual machines sometimes vary widely from published figures, depending on the amount of quality control exercised in manufacture.

Prices subject to change without notice. Consult manufacturer or local dealer for exact price, as some prices are list and others net.

TAPE RECORDING ACCESSORIES

AUDIO SELF-TIMING LEADER TAPE

A strong, durable leader tape of white plastic material — easily written on with ink or pencil. Spaced markings permit accurate timing of leader intervals.
100 ft., 1/4" wide, individually boxed.

Type No. 3L List Price, \$0.60

ADHESIVE REEL LABELS

Provide positive identification of your tapes, right on the reel. Simply press to apply, pull off to remove. Envelope of 30 2" x 1/2" labels.

Type No. 30 AL List Price, \$0.25

AUDIO HEAD DEMAGNETIZER

Completely removes all permanent magnetism from recording and reproducing heads in a matter of seconds. Operates on 110 volts, 60 cycles. Individually boxed, with 7 ft. cord and plug.

Type No. 400 List Price, \$12.00

PERMACEL 91 SPLICING TAPE

Especially formulated for splicing magnetic recording tape. Adhesive will not squeeze out, dry up or become brittle.

Size	Type No.	List Price
1 Roll, 1/2" x 100", with metal utility dispenser	50 ST	\$0.29
1 Roll, 1/2" x 66 ft.	56 ST	0.76
1 Roll, 3/4" x 66 ft.	75 ST	1.01

AUDIO HEAD ALIGNING TAPE

Pre-recorded at 2,000, 10,000 and 15,000 cps. at 15" per second, with precisely correct head azimuth alignment. Provides a convenient and highly accurate reference for aligning magnetic recording head. Three hundred ft. on 5" reel, individually boxed, with instructions.

Type No. 200 List Price, \$12.00

Manufacturer	Model and Price	Frequency Response	Data									
J. C. WARREN CORPORATION 21 Hanse Ave., Freeport, N. Y.	 Warren Battery Portable \$298.00 <table><tr><th>Model</th><th>Speed</th></tr><tr><td>777-3</td><td>15/16 ips</td></tr><tr><td>777</td><td>1 7/8 ips</td></tr><tr><td>777-1</td><td>3 3/4 ips</td></tr><tr><td>777-2</td><td>7 1/2 ips</td></tr></table>	Model	Speed	777-3	15/16 ips	777	1 7/8 ips	777-1	3 3/4 ips	777-2	7 1/2 ips	
Model	Speed											
777-3	15/16 ips											
777	1 7/8 ips											
777-1	3 3/4 ips											
777-2	7 1/2 ips											

Manufacturer	Model and Price	Frequency Response	Data
BROADCAST EQUIPMENT SPECIALTIES CORP. P.O. Box 149 Beacon, N. Y.	 Tapak (tape-pack) "Newscaster" Standard Model \$329.25 Custom Model \$344.25	100-6,000 cycles 50-9,000 cycles	Completely self-contained, walkie-type tape recorder with spring-powered transport mechanism and dry battery amplifier. Standard speed, 7 1/2" per second, convertible to 3 3/4" per sec. if desired. Adjustable to center or side track. Records, erases, monitors and plays back through headphones, external amplifier or phone input of radio. Fast rewind. Recording characteristics match studio equipment. Standard model has 37 db dynamic range. Custom model with transistor oscillator, has 55 db range. Fitted cover holds mike, phone, flashlight: price includes all accessories.
	Tapak (tape-pack) "Narrator" \$359.25	100-6,000 cycles	Same as "Newscaster" in appearance and functions, but includes built-in 4" x 6" speaker and increased amplification for reproduction of self-recorded or pre-recorded tapes to room-size audiences. Standard speed, 7 1/2" per second, convertible to 3 3/4" per sec. if desired. Records or plays up to 50 minutes on one-mil base tape.
	 Minigraph Battery Operated Pocket Size Unit \$289.50 (Available Dec. 1955)	100-4,000 cycles	Pocket-size, subminiature tape recorder. Records dual track 1 hour total at 3 3/4" per second or 2 hours at 1 7/8" per second. Records, erases, monitors and plays back through earphone or external amplifier. Interlocks prevent accidental erase or "double exposure". Special 4" reels transferrable to any recorder. DC motor operated from 15-hour mercury batteries. Dynamic range, 37 db. Wrist-watch mike available as optional accessory.
COLUMBIA RECORDS, Inc. 799 Seventh Avenue, New York 19, N. Y.	 Columbia Model 461 \$99.95	50-9,000 cycles at 7 1/2"/sec.	Portable, dual-track recorder with 7 1/2" per second tape speed. Signal-to-noise ratio, 35 to 40 db. Fast forward and rewind, 1200 ft. in 105 seconds. Automatic erase when recording. Single master control and neon recording level indicator. Includes 5" PM speaker, with jack for auxiliary speaker. Can be used as PA system with or without auxiliary speaker. Wooden cabinet with leather-toned plastic covering. Complete with ceramic microphone. Weight, 18 1/4 lb.
	 Columbia Model 462 \$149.95	50-10,000 cycles at 7 1/2"/sec.	Portable dual-track two speed recorder with 7 1/2" and 3 3/4" per second tape speeds. Signal-to-noise ratio, 35 to 40 db. Fast forward and rewind, 1200 ft. in 105 seconds. Automatic erase when recording. VU meter for accurate recording level indication. Includes two 5" by 7" oval PM speakers and jack for auxiliary speaker. Can be used as PA system with or without auxiliary speaker. Single master control switch. Wooden cabinet with leather-toned plastic covering. Complete with ceramic microphone. Weight, 23 1/2 lb.
CRESCENT INDUSTRIES, INC. 5900 W. Touhy Ave. Chicago 31, Ill.	 Model TR 670 \$99.95	80-8,500 cycles at 7 1/2"/sec.	Portable dual-track recorder with 7 1/2"/sec. tape speed. Fast forward and rewind, 1200 ft. in 90 seconds. 3-watt amplifier and built-in speaker. Output for external amplifier. Microphone included. Weight, 20 lb.
	 Model TR 672 \$119.95		Portable dual-track recorder with 7 1/2" and 3 3/4" per second tape speeds. Wow and flutter, less than 1/2 of 1%. Inputs for mike and radio-phonograph. Output for external amplifier. Microphone included. Weight, 22 lb.
	 Model TR 673 \$149.95	50-10,000 cycles at 7 1/2"/sec. 70-6,000 cycles at 3 3/4"/sec.	Portable dual-track, dual speed recorder with two 6" built-in speakers. Wow and flutter, less than 1/2 of 1%. Fast forward and rewind, 1200 ft. in 80 seconds. Electronic eye recording level indicator. 3-watt amplifier. Inputs for mike and radio-phonograph. Outputs for external speaker plus high impedance for external amplifier. Includes ceramic microphone. Weight, 23 lb.

Manufacturer	Model and Price	Frequency Response	Data
DAYSTROM ELECTRIC CORP. 753 Main St. Poughkeepsie, N. Y.	 Crestwood Model 304 Portable \$229.50 Model 310 in Walnut Console \$339.50	50-10,000 cycles at 7 1/2"/sec.	Portable dual-track recorder with 7 1/2" and 3 3/4" tape speeds. Takes up to 7" reels. Fast forward and rewind, 20:1 ratio. Power output, 10 watts. Distortion, not over 3% at 5 watts output. Wow and flutter, not over 0.3% at 7 1/2"/sec. Inputs for microphone, radio-phono. Outputs for external speaker and headphone monitor. Touch controls for microphone or radio, record or play, bass response, treble response. Push-pull speed change control. Two-neon-lamp volume indicator. Microphone included. Weight, 31 lb.
	 Crestwood "Hi-Fi" 404 Recorder & Preamp. \$229.50 Amplifier & Spkr. \$100.00 Recorder, Amplifier & Spkr. in Walnut Console \$429.50	30-15,000 cycles at 7 1/2"/sec.	Portable dual-track recorder with 7 1/2" and 3 3/4" tape speeds. Takes up to 7" reels. Fast forward and rewind, 20:1 ratio. Power output, 10 watts. Distortion, less than 2%. Wow and flutter, not over 0.3% at 7 1/2"/sec. Provision for head alignment. Inputs for microphone, radio-phono. Outputs for monitor and power amplifier. Electronic eye recording level indicator. Jack for VU meter. Weight, 28 lb. Model 402 power amplifier with 10-watt output and 8" speaker weighs 17 1/2 lb. Jack provided for external speaker.
	 Crestwood "Concerto" Model 360 \$299.50	50-10,000 cycles at 7 1/2"/sec.	Model 304 recorder unit mounted in mahogany or lined oak table console, containing two speakers properly baffled for full range music reproduction. Also available with legs for use as an arm chair height console.
De JUR AMSCO CORP. 45th & Northern Blvd., Long Island City, N. Y.	 De Jur Model TK820 \$379.50	40-16,000 cycles (±2 db) at 7 1/2"/sec. 50-10,000 cycles (±2 db) at 3 3/4"/sec.	Portable dual-track recorder with hysteresis synchronous, dual speed reversible motor and push-button track reversal. All functions electronically controlled by piano key switchboard relay operation. Four separate erase and record-playback heads. Illuminated program selector. Electronic eye recording level indicator. Signal-to-noise, 55 db. Flutter and wow, 0.1% at 7 1/2"/sec. Harmonic distortion, 0.8% at full rated output. Power output, 6 watts undistorted. Rewind time, 90 sec. for 1200 ft. either direction. Inputs: 2 high impedance, 1 low impedance. Outputs: 1 high impedance, 1 low impedance. Three PM speakers and 2 electrostatic tweeters. Includes cardioid dynamic mike.
	 DuKane "Tru-Fidelity" Recorder Model 11A200 \$395.00 DuKane "Automatic" Model 11A240 \$469.50	50-10,000 cycles (±1 1/2 db) at 7 1/2"/sec. 50-7,500 cycles (±1 1/2 db) at 3 3/4"/sec.	Portable, dual-track, dual-speed recorder with 7 1/2 watt power output. Signal-to-noise ratio, 50 db on playback, distortion less than 5% at full output. Rewind time, 80 seconds for 7" reel. Fast forward, 100 seconds for 7" reel. Output for auxiliary speaker, monitor headphone and for feeding to input of another recorder for direct tape copying. Inputs for microphone, phonograph, radio. Electronic eye recording level indicator, automatic footage counter and exclusive Room Balance Control. Weight, 39 lb. Same as Model 11A75 above, but designed for fully automatic sound slidefilm projection in conjunction with DuKane push-button filmstrip projector. A 40 cycle signal recorded on the tape changes pictures automatically without any audible cues.
EDUCATIONAL LABORATORIES INC. 1823 Jefferson Place, N. W. Washington 6, D. C.	 Educorder Dual Model M-6 \$239.00	70-7,500 cycles at 7 1/2"/sec. 70-5,000 cycles at 3 3/4"/sec.	A complete portable, two-channel two-speed tape recorder. Each channel has its own amplifier and separate record-reproduce and erase heads. Can be used for binaural recording or playback, or for recording on one channel while listening to the other, permitting two-part recordings, duets, comparison drills, etc. Meter recording indicator, tape-film synchronizer (optional) and many other features.

Manufacturer	Model and Price	Frequency Response	Data
TELECTRO-SONIC CORPORATION 35-18 37th St. Long Island City 1, N. Y.	 Telectro-tape Model 556 \$79.95	flat to about 6500 cycles at 3 3/4"/sec.	Light-weight, dual-track recorder with 3 3/4" tape speed. Handles up to 5" reels, providing up to 1 hour recording time. Wow and flutter, approximately 0.5%. High impedance microphone input may also be used for radio input. Extremely simple threading and operation. Neon bulb recording level indicator. Weight, 16 lb. Includes crystal microphone with stand. Built-in speaker.
	 Telectro-tape Custom 220 \$99.50 (without case)	50-12,000 cycles (±3 db) at 7 1/2"/sec.	Basic dual speed recorder (7 1/2" and 3 3/4"/sec.) unit with recording amplifier, playback pre-amp and erase oscillator for custom, table or portable mounting. Signal-to-noise, 45 db. Distortion, less than 2%. Flutter and wow, less than 0.3% RMS. Max. reel size, 7". Electronic eye recording level indicator. Inputs for microphone and radio-phono. Also available: Custom 220P monaural tape player (\$49.50) and Custom 220BMP binaural and monaural tape player. (\$61.50). Tape player prices cover mechanism only.
	 Telectro-tape Professional 1000 Two-Unit Portable (Price on request)	30-15,000 cycles (±2 db) at 15"/sec. 30-15,000 cycles (±4 db) at 7 1/2"/sec. 30-10,000 cycles (±2 db) at 7 1/2"/sec.	Professional type two-unit, dual-track portable with 15" and 7 1/2" tape speeds. Signal-to-noise, over 55 db at both speeds. Distortion, less than 2% RMS. Flutter and wow, less than 0.2% at 15"/sec. Starting time, less than 0.1 second. Stopping distance, less than 2" at 15"/sec. Playback timing accuracy, better than 0.2%. Max. reel size, 10 1/2". Pushbutton controls, A-B monitor switch, input selector switch, VU meter switch for playback level, record level, bias and erase current. Output, 600 ohms balanced. Remote control available.
THREE DIMENSION COMPANY Division of Bell & Howell 3512 N. Kostner Ave., Chicago 41, Ill.	 TDC "Stereotone" Portable \$229.50	50-10,000 cycles (±2 db) at 7 1/2"/sec. 50-8,000 cycles (±3 db) at 3 3/4"/sec.	Portable, two-speed dual-track recorder, Vertical design with 10-inch extended range speaker. Three separate motors with electro-magnetic braking and interlocking push-button control. Distortion less than 3% at half output. Signal to noise ratio better than 36 db. Wow and flutter below 0.2% at 7 1/2"/sec. 7-tube amplifier with push-pull output delivers over 8 watts audio. Fast forward and rewind, 1200 feet in 40 seconds. Program indicator for permanent pin-point referencing. Two output jack for connecting either external amplifier or extension speaker. Prices include controlled reluctance microphone, power cord, radio-phono patch cord, and spare 7" reel. Neon indicators for volume and bass-treble controls. Two position speaker. Can be used as public address. Record safety lock. Controls: stop, forward, rewind, play, speaker, record.
	 Viking Full Fidelity 75 Tape Deck FF75 Monaural Playback Unit \$59.95 FF75B Binaural Playback Unit \$69.95 FF75R Monaural Record-Playback Unit \$67.45	40-14,000 cycles at 7 1/2"/sec. (depending on amplifier)	Tape Playback and Record-Playback units for custom installation in hi-fi systems. Tape speed, 7 1/2"/sec., with belt change for 3 3/4"/sec. Signal-to-noise, 45 db or more. Flutter, 0.2% or less. Maximum reel size, 7". Total harmonic distortion, less than 1.0% with NARTB compensated preamplifier and NARTB recorded tape. Also available with tapelifter and pressure pad. Weight, basic unit, 9 lb. Viking matched PB60 playback preamplifier—\$24.50. Viking matched RP61 record-playback amplifier also available—\$74.50. Portable carrying case for FF75R and RP61—\$19.95.
V-M CORPORATION Benton Harbor, Michigan	 "tape-o-matic" Model 700 \$179.95	70-15,000 cycles (±5 db) at 7 1/2"/sec.	Portable two-speed, dual-track recorder with push-button controls and two speakers—one "woofer" and one "tweeter". Flutter and wow, less than 0.5%. Concealed 60-cycle hum control and bass boost. Includes tape index timer, record-ready light, "distort" light, tape-speed button, treble and bass control, monitor switch, "pause" button for silent momentary stops, safety interlock to prevent accidental erase. Inputs for microphone, radio-phono jack, radio "patch cord", and magnetic phono jack. Output jacks for external speaker and external plus internal speakers.

Manufacturer	Model and Price	Frequency Response	Data
THE STANCIL-HOFFMAN CORP. 921 North Highland Ave., Hollywood 38, Cal.	 Model R-5 \$1,575.00	50-15,000 cycles (± 1 db) at 15"/sec.	Portable, professional-type, single-track recorder with tape speeds of $7\frac{1}{2}$ and 15" (or $3\frac{3}{4}$ and $7\frac{1}{2}$ ") per sec. Signal-to-noise ratio, over 60 db. Separate record and playback heads and amplifiers with independent monitor amplifier and speaker.
	 Model S6 Synchronous Magnetic Film Recorder \$1,500.00	45-10,000 cycles (± 2 db) 16mm and 17.5mm film	Synchronous magnetic film equipment for motion picture and TV sound recording. Designed for 24 volt battery operation, 110 volt single phase or 220 volt 3 phase. The equipment is very lightweight and housed in small light-weight cases for easy portability. Signal-to-noise: at least 55 db. Maximum harmonic distortion: 1.5% from full level. Film capacity: 1000 feet.
	 Model CRM-15 Multi-Channel Communications Recorder (Prices on Request)	200-7,500 cycles (± 3 db) at $7\frac{1}{2}$" /sec. 200-3,500 cycles (± 3 db) at $3\frac{3}{4}$" /sec.	Provides up to 15 simultaneous recording channels on 0.7" wide tape. Recording time, up to $4\frac{1}{2}$ hours for 5,000 foot reel. Two units, with automatic sequence control permit continuous, 24-hour recording. Signal-to-noise, at least 40 db. Distortion, not more than 5% total harmonic at "0" input level. Negligible crosstalk between channels. Push-button control. Fast forward and rewind. Automatic stop.
TAPE RECORDERS, INC. 1501 W. Congress Street, Chicago 7, Ill.	 TRI-FY "Dixie-Land" Model 110 \$129.95	50-7,500 cycles at $7\frac{1}{2}$" /sec. 70-4,500 cycles at $3\frac{3}{4}$" /sec.	Portable, dual-track, two-speed tape recorder with replaceable plug-in type record-playback head. Signal-to-noise ratio, over 40 db. Flutter and wow, less than 0.5%. Fast forward and rewind, 15 to 1 ratio. Tape Guide slotting for perfect tape alignment. Inputs for microphone and radio-phonograph. Output for external speaker and monitor headphones. Includes 5" speaker and microphone. Foot control optional. Weight, 24 lb.
	 TRI-FY "Continental" Model 220 \$189.95	50-8,500 cycles at $7\frac{1}{2}$" /sec. 50-5,000 cycles at $3\frac{3}{4}$" /sec.	Portable dual track, dual speed recorder with built-in 6-tube AM radio. Mixer circuit permits simultaneous recording from microphone and radio. Signal-to-noise, over 45 db. Flutter and wow, less than 0.5%. Fast forward and rewind, 15 to 1 ratio. Neon bulb recording level indicator. Plug-in record-reproduce head assembly with tape guide slotting. Inputs for mike and external radio-phonograph. Outputs for external speaker and headphones. Weight, 29 lb.
	 TRI-FY "Carousel" tape player and recorder Model 330 \$239.95	50-12,000 cycles at $7\frac{1}{2}$" /sec. 50-6,000 cycles at $3\frac{3}{4}$" /sec.	Compact dual-track recorder with infinitely variable tape speeds from 3" to 8" per second. Reverses track automatically at end of reel. Provides up to 8 hours non-repeat programming on $10\frac{1}{2}$ " reel without adapter. Flutter and wow, less than 0.3%. Fast forward and rewind. Neon bulb recording level indicator. Inputs for high or low impedance mike and radio-phonograph. Outputs for external speaker, hi-fi amplifier, VU meter and monitor headphones. Weight, 21 lb.

Manufacturer	Model and Price	Frequency Response	Data
EDUCATIONAL LABORATORIES INC. 1823 Jefferson Place, N. W. Washington 6, D. C.	 Educorder Dual Model M-7 \$295.00	70-8,000 cycles at $7\frac{1}{2}$" /sec. 70-5,000 cycles at $3\frac{3}{4}$" /sec.	A higher power output model (nearly 5 watts per channel), the M-7 features a well-known pushbutton tape mechanism, improved frequency response and extremely compact design, in addition to all the above interesting operational possibilities of a complete two channel tape recorder with independent control of each channel. Matching speaker case available (two 12" speakers, for binaural or combined playback).
	Educorder Dual Model M-8 \$389.00	50-12,000 cycles at $7\frac{1}{2}$" /sec. 50-7,500 cycles at $3\frac{3}{4}$" /sec.	A professional quality model with performance on each channel close to NARTB standards and over 5 watts audio power per channel. Three motor tape drive, positive drag and braking, no pressure pads. VU meter.
ELECTRONIC TEACHING LABORATORIES 1818 M Street Northwest, Washington 6, D. C.	 Electro-Dual Binaural Portable Model E-2 \$495.00	40-8,000 cycles (± 2 db) at $3\frac{3}{4}$" /sec.	Portable dual parallel track recorder with two separate recording and reproducing channels. Modified binaural circuit permits recording on one channel while listening to pre-recorded teaching material on parallel channel. Outputs for binaural or standard headphones. Safety feature prevents erasure of pre-recorded tapes. Safety interlock coupled to drive when either amplifier is in Record position. Includes provision for head azimuth alignment. Separate recording level meters for each channel. Size, 23" x 11" x 6". Weight, 29 lb.
	 Audio-Visual Electro-Dual Binaural Portable Model E-2AV \$630.00	40-8,000 cycles (± 2 db) at $3\frac{3}{4}$" /sec.	Consists of standard Electro-Dual E-2 with Electro-Synchronizer to match, automatic film strip projector and associated connectors. Designed to play back sound track and automatically advance film strip or (alternatively) slide projection. Electro-Synchronizer has 4 watt auxiliary power amplifier. Model G Electro-Synchronizer can be used for same purpose with any other recorder without synchronized signal being necessary.
	Electro-Dual Binaural Language Laboratory Console, Model E-2CL \$575.00	(as above)	Model E-2 recorder in collapsible portable booth-type console wired for external audio and power supply. Eliminates under-floor wiring. Any console may serve as master signal source.
	 Memocorder \$365.00	100-6,000 cycles at $3\frac{3}{4}$" /sec.	The MEMO line is intended for the clinical psychiatrist and psychologist, for voice recording and reproduction. Portable unit for out-of-office interviews. Maximum simplicity of threading and operation. Record amplifier includes automatic volume compressor. Unnecessary for operator to set or adjust volume level. Single track recording with cueing channel for other track. Remote push-button control for cueing. Maximum reel size, 7".
ELECTRO-SONIC SPECIALTIES 7230 Clinton Rd. Upper Darby, Pa.	 Memotape \$405.00	100-6,000 cycles at $3\frac{3}{4}$" /sec.	Heavy duty professional recorder designed for rack mounting. Same basic simplicity of threading and operation as portable Memocorder above. Includes remote starting, stopping and cueing controlled from consultation room. Automatic gain control—good recordings at any speech level. Separate head for monitoring from tape while recording. Low impedance input for long microphone lines. Maximum reel size, 7".
	 Memograf \$700.00	100-6,000 cycles at $3\frac{3}{4}$" /sec.	Professional transcription machine designed as companion unit to Memotape. One Memograf can serve 6 to 10 Memotapes. Fast shuttle speed and Auto-Que light enable typist to spot and transcribe notes quickly. Pedal control leaves both hands free for typing. All control switches on machine clearly marked as to function. Heads always accessible for cleaning without removal of covers. Ample storage space in console compartments.
	Fidelivox Continuous Tape Reproducer for Background Music \$665.00	40-15,000 cycles at $7\frac{1}{2}$" /sec. 40-7,500 cycles at $3\frac{3}{4}$" /sec.	Rack mounted playback unit accommodating up to 14" reels. Signal-to-noise, over 50 db. Three-motor drive. Simple to thread and use. Automatic reversal and shut-off. Data on request.

Manufacturer	Model and Price	Frequency Response	Data
EMC RECORDINGS CORP. 806 E. 7th St. St. Paul 6, Minn.	 EMC Tape Players Model 375 \$79.95	100-6,000 cycles at 3 3/4" /sec.	Table-model tape playback units with either 7 1/2" or 3 3/4" per second tape speed. No provision for recording. No danger of accidental erase. Signal-to-noise: 35 db for Model 375, 38 db for Model 750. Distortion at peak output, less than 5%. Dual track heads play back single or dual track tapes. Output, 4.5 watts. Built-in 5" PM speaker, with jack for external speaker. Model 750 also includes a high-impedance output. Weight, 15 lb.
	Model 750 \$79.95	80-12,000 cycles at 7 1/2" /sec.	
FAIRCHILD RECORDING EQUIPMENT CORP. 154th St. and 7th Ave. Whitestone 57, N. Y.	 Console Model Unit 126 \$2,750.00	50-15,000 cycles (±1 db) at 15" /sec.	Professional type, single-track recorder with 15" tape speed (7 1/2" and 30" models available). Total noise and distortion -64 db (ref. 2 1/2% dist.). Adjustable bias. Speed tolerance, 0.1%. Built-in VU meter and circuit checking. Unit-type, plug-in chassis. Automatic stop — instant braking and reversal. Full protection against accidental erase.
	Console Model "PIC-SYNC" \$4,000.00	50-15,000 cycles (±1 db) at 15" /sec.	Same as model 126 with the addition of lip synchronous operation. Used with motion picture camera and film projector, synchronous sound tracks are made and played back on 1/4" tape, with no interconnecting equipment. Automatic Framing, which assures correct cueing of tape and film, available at additional cost. Other applications include Facsimile recording, multi-track, and telemetering, with frequency response to 100 KC.
	Control Track Generator Model 41 \$125.00		Portable light weight unit for "On Location" picture synchronous sound track recording on 1/4" tape. Used with any portable tape recorder with 15" /sec. tape speed and frequency response good to 14 KC, a control track is simultaneously applied which later becomes the tape speed control when played back on Pic-Sync recorder.
FEDERAL MANUFACTURING AND ENGINEERING CORP. 199-217 Steuben St. Brooklyn 5, N. Y.	 FME Model 37-C \$139.95	50-12,000 cycles at 7 1/2" /sec.	Portable dual-track, dual speed recorder operating at 7 1/2" and 3 3/4" per second. Signal-to-noise, 43 db. Flutter, less than 0.5%. Fast forward and rewind, 20-to-1 ratio. Safety lock prevents accidental erase. Instant stop lever for editing. Neon recording level indicator. Power output, 3 watts. 5" x 7" elliptical PM speaker. Input jack for microphone or radio-phonos. Output jack for external speaker. Ceramic mike included. Weight, 27 lb.
	 FME Model 47-A \$159.50	50-7,000 cycles at 3 3/4" /sec.	Portable dual-track, dual speed recorder. Embodies all features of the Model 37-C above, plus a drum-type, automatic reversible counter, monitor and hi-fi jack for monitoring with earphones while recording or for playing back through an external hi-fi amplifier. Also has improved fast-forward lever for one-hand operation. Includes ceramic mike and patch cord with built-in resistance network to match recorder. Weight, 27 lb.
INTERNATIONAL RADIO AND ELECTRONICS CORPORATION South 17th St. & Mishawaka Rd. Elkhart, Ind.	 "CROWN" Professional Series Crown Deluxe \$379.50 Crown Broadcaster \$399.50 Crown Imperial \$425.00	30-15,000 cycles (±2 db) at 15" /sec. 40-12,000 cycles (±2 db) at 7 1/2" /sec.	Portable, 3-motor, 3-speed recorder-reproducer units operating at 15", 7 1/2" and 3 3/4" per second. Signal-to-noise, 54 db at 15" /sec.; 52 db at 7 1/2" /sec.; and 44 db at 3 3/4" /sec. Flutter and wow, less than 0.12% at 15" /sec. Fast forward and rewind, 35 sec. for 1200-ft. reel. Include 1 phono and 2 microphone inputs; output jacks for 16, 8 & 4 ohms, 2 high-level mix input channels; 8" 9 watt speaker. Provides full P.A. facility even while recording. Amplifier output, 35 watts peak at less than 4% distortion; 15 watts at 1%; 8 watts at 0.5%. Choice of full or half-track heads (interchangeable, plug-in type). Deluxe model has electronic eye. Broadcaster model has VU meter. Imperial model has VU meter and will handle 10 1/2" reels.
	 "CROWN" LP Recorder \$449.50	40-8,000 cycles (±3 db) at 3 3/4" /sec.	Same features as Crown Imperial, but designed to accommodate standard 14", 5000 ft. reels. At 3 3/4" per second, that gives a total, non-stop recording or playback time of 4 hours and 26 minutes — almost 9 hours dual-track. Speed reducer (available for all Crown models) gives an additional tape speed of 1 1/8" per second.

Manufacturer	Model and Price	Frequency Response	Data
RANGERTONE INC. 73 Winthrop St., Newark 4, N. J.	 "Rangerette" Portable Model A-2 \$1,500.00 complete	45-15,000 cycles (±2 db) at 15" /sec. 50-8,000 cycles (±2 db) at 7 1/2" /sec.	FOR SYNCHRONOUS SOUND RECORDING Professional-type, single-track, dual-speed recorders, with choice of 3 3/4", 7 1/2", 15" or 30" per second tape speeds. Up to 2 hours recording at 7 1/2" per sec. on 14" reel. Distortion, less than 2% total harmonic. Maximum signal-to-tape noise, 55 db. Double-puck, tight-loop tape drive. Peak-to-peak flutter, less than 0.1% at 15" /sec. Rewind speed controllable continuously from 0 to 250" /sec. in both forward and rewind. Meets all N.A.B. adopted standards. Complete monitoring and mixing facilities. VU meter, signal indicator and footage counter calibrated in minutes and seconds. Complete tape editing facilities. Also available with positive "sprocketless" synchronization for motion picture and TV applications. Weight of Rangerette — 30 lb. Kits added to other professional recorders for Synchronous Sound Recording for \$295.00.
	 Console Model R-5C with synchronizer (Price on Request)	45-15,000 cycles (±2 db) at 15" /sec. 50-8,000 cycles (±2 db) at 7 1/2" /sec.	
	 Model T-700D \$212.50 Model TR-800D (with radio) \$265.00 Model T-700 \$225.00 Model TR-800 (with radio) \$277.50 Model T-10 \$235.00 Model TR-20 (with radio) \$287.50	40-14,500 cycles (±3 db) at 7 1/2" /sec. 40-7,500 cycles (±3 db) at 3 3/4" /sec. 80-8,000 cycles (±3 db) at 3 3/4" /sec. 60-15,000 cycles (±3 db) at 7 1/2" /sec.	
REVERE CAMERA COMPANY 230 East 21st St. Chicago 16, Ill.	Model T-700 B&M \$235.00 Model TR-800 B&M (with radio) \$287.50 Model T-10 B&M \$245.00 Model TR-20 B&M (with radio) \$297.50	as above	Portable dual track recorder available in either single or dual speed. Convenient keyboard control, electrical solenoid operated. Signal to noise ratio over 48 db on dual speed machines and 50 db on single. Distortion less than 0.65% on normal levels. Rewind and fast forward speed, 170 ips. Flutter and wow less than 0.3%. Two neon lamps for accurate level setting. Precision revolution index counter, for instant location of recording. Can be operated as a P.A. system. Provision for electrical remote controls.
	 Model T-1100 \$159.50 Model TR-1200 (with radio) \$209.50 Model T-900 \$199.50 Model TR-1000 (with radio) \$249.50	85-7,000 cycles (±3 db) at 3 3/4" /sec. 75-12,000 cycles (±3 db) at 7 1/2" /sec. 85-7,500 cycles (±3 db) at 3 3/4" /sec.	
	 Model T-100 \$169.50 Model TR-200 (with radio) \$224.50 Model T-500 \$179.50 Model TR-600 (with radio) \$234.50	85-7,500 cycles (±3 db) at 3 3/4" /sec. 100-5,000 cycles (±3 db) at 1 7/8" /sec.	
	 Model T-11 \$264.50	40-16,000 cycles (±3 db) at 7 1/2" /sec.	High fidelity 10 1/2" reel tape recorder for professional use and custom installations. Guaranteed specifications, signal-to-noise, over 50 db, wow and flutter less than 0.2%. Over-all harmonic distortion, 0.65%; inter-modulation distortion, less than 2%. Features: One volt cathode follower pre-amplifier output. Monitor amplifier with 2 1/2 watt output. Adjustable 70Kc bias-erase oscillator with indicator. Less than 1/2 second start and stop. Automatic head demagnetizing. Precision revolution tape counter. Electrical remote with automatic drive roller release.

Manufacturer	Model and Price	Frequency Response	Data
PRESTO RECORDING CORPORATION P.O. Box 500, Paramus, New Jersey	 Model SR-27 Complete with A-920 amplifier \$485.00 Model A-920 Amplifier \$324.00	50-15,000 cycles at 15"/sec. 50-10,000 cycles at 7 1/2"/sec.	Professional type two-speed equipment for portable or stationary use. Tape transport mechanism has true three-motor drive and separate erase, record and reproducing heads. A-920 amplifier consists of microphone preamp, reproduce preamp, power amplifier and power supply. Includes twin speakers for playback. Monitors from input or tape while recording. Input for microphone or high impedance bridging. Output: 10 watts at 15 ohms, line level at 500 ohms. Monitor output for headphones. Max. reel size, 8".
	 Model R-11 Recording Mechanism (in carrying case) \$827.00 Chassis Only \$775.00 Model SR-11 Recording Console \$125.00	50-15,000 cycles at 15"/sec. 50-10,000 cycles at 7 1/2"/sec. 50-8,000 cycles at 3 3/4"/sec.	Professional type portable tape mechanism with three-head assembly: erase — record — reproduce. Brakes and capstan pressure pulley solenoid operated. Dual-speed motor heavy-duty capstan drive unit, with tape reels mounted directly on individual torque motors. Flutter 0.15% at 15"/sec. Signal-to-noise, 55 db. Simplified threading, easy access to heads. Professional console-type unit, consists of R-11 mechanism and 901-A amplifier. 900-A amplifier may be substituted if desired. Tape transport panel and amplifier panel are hinged — every component readily accessible.
	 Model PB-17A Tape Reproducing Mechanism \$700.00 Model A-904 Amplifier \$146.00	50-8,000 cycles at 3 3/4"/sec.	Dual-track reproducing mechanism with 3 3/4" tape speed and automatic reversal, giving up to 8 hours of continuous music on a 4800-ft. reel. At end of this time, mechanism may be made to recycle or stop. Heavy duty capstan drive unit with individual torque motors for each reel. Signal-to-noise, 55 db. Flutter 0.35% at 3 3/4" speed.
	Continuous Tape Reproducing Console \$996.00		Long-playing tape reproducing unit consisting of PB-17A tape transport mechanism and A-904 Amplifier in console cabinet with dust-protective plastic top. Dynamic range, 45 db. Also available with PB-15A mechanism, which is similar to PB-17A except with 10 1/2" reel capacity only.
	 Model 7TR3 Portable \$189.95	70-10,000 cycles at 7 1/2"/sec. 70-5,000 cycles at 3 3/4"/sec.	Portable, dual-track recorder with tape speeds of 7 1/2" and 3 3/4"/sec. Push-button controls for play, record, fast forward, rewind and stop. Rewind time, 2 min. for 1200 ft. Normal and overload neon bulbs for recording level. Counter for indicating relative tape position. Built-in microphone well for ceramic mike facilitates use and storage. Voice-music switch for microphone recording. Inputs for microphone and radio-phonograph. Includes 6 1/2" PM woofer and two 3 1/2" PM tweeters. Output jack for external speaker. Power output, 2 watts. Max. reel size, 7".
RADIO CORPORATION OF AMERICA RCA Victor Division Camden 2, N. J.	 Model RT-11B Cabinet Rack Mounted \$895.00 Model RT-12C Console \$1070.00	50-15,000 cycles (±2 db) at 15"/sec. 50-10,000 cycles (±2 db) at 7 1/2"/sec.	Professional type, dual-speed tape recording equipment available in cabinet rack or console mounting. Three separate heads, with automatic tape lift on fast forward or rewind. Automatic "tape break" stop. Local or remote push-button control of all functions. Signal-to-noise ratio; 60 db at 15"/sec., 55 db at 7 1/2"/sec. Wow and flutter combined; 0.1% RMS at 15"/sec., 0.2% at 7 1/2"/sec. Distortion, 3% total RMS harmonic at 400 cycles, reference recording level. Timing accuracy; ±5 seconds in 30 min. (machine to machine), ±2 1/2 seconds in 30 min. when played back on same machine at same temperature and humidity. Capstan is synchronous. Start and stop, 0.1 second. Rewind speed, 1 min. for 10 1/2" reel.

Manufacturer	Model and Price	Frequency Response	Data
LIVINGSTON ELECTRONIC CORPORATION Livingston, N. J.	 Binaural-Monaural Tape Playback Unit \$119.50	20-20,000 cycles (±2 db) at 7 1/2"/sec. (when properly equalized)	Attractively styled tape playback unit with 7 1/2" per second tape speed. Does not record and cannot erase recorded tapes. Arranged for monaural or binaural playback of single or dual track tapes. Rewind time, 75 seconds for 1200 ft. Amplifier and speaker not included. Output level, 5 millivolts from tape recorded at Zero VU. Output impedance, 1800 ohms at 1000 cps, variable with frequency. Max. reel size, 7". Also available without case for custom installation.
MAGNECORD INC. 1101 S. Kilbourn Ave. Chicago 24, Ill.	 F 35-B "Citation" \$349 (in portable case) Model S 36-B \$370 (for rack mounting)	F35-B (±2 db) 50-10,000 at 7 1/2" 50-5,000 at 3 3/4" S36-B (±2 db) 50-15,000 at 15" 50-12,000 at 7 1/2"	Professional type two-speed units for portable, rack or custom mounting. F35-B: 7 1/2" and 3 3/4"/sec. S/N, 45 db half track. S36-B: 15" and 7 1/2"/sec. S/N, 54 db full track. Hysteresis synchronous motor drive. Speed varied by capstan change. Both units have rewind time of 40 sec. for 1200 ft. Control knob interlocked to prevent accidental erase. Illuminated VU meter. Monitor jack on front panel. Separate record and playback amplifiers. Inputs for microphone and radio-phonograph. Cathode follower output. F35-B includes speaker and ceramic microphone.
	 Model P60AX (without case) \$390 Model P60881 (with amplifier and carrying case) \$625	40-15,000 cycles (±2 db) at 15"/sec. 40-10,000 cycles (±2 db) at 7 1/2"/sec.	Professional portable or rack mount unit with 7 1/2" and 15" tape speeds. Direct motor capstan drive with torque motor take-up. Pushbutton controls, automatic tape lift and tape break control. Separate erase, record and playback heads. Signal-to-noise, 55 db full track. Flutter and wow 0.2% at 15"/sec. Timing accuracy, ±3 sec. in 30 min. Fast forward and rewind, 90 sec. for 2500 ft. Adjustable bias, cueing control, deep slot loading. Amplifier has high impedance and unbalanced bridge inputs. Cathode follower unbalanced output. Illuminated 4" VU meter.
	 M81 Series (±2 db) 50-15,000 at 15" 50-10,000 at 7 1/2" M90 Series (±2 db) 30-15,000 at 15" 40-12,000 at 7 1/2"	M81-AC \$880 M81-ACC \$975 M90-AC 1375 M90-ACC 1450	Professional type dual speed units with 3 motor drive. M81 series: signal-to-noise, 55 db; flutter and wow less than 0.15% at 15"/sec. M90 series: signal-to-noise, 58 db; flutter and wow less than 0.1% at 15"/sec. Maximum flexibility of remote control. All units have timing accuracy ±3 sec. in 30 min., fast forward and rewind 55 sec. for 2500 ft. Pushbutton controls, single or dual track heads, 4" VU meter for bias, record and reproduce level. Separate record and playback amplifier. Monitor from tape while recording. Console units have tip-out panels for easy servicing.
	 Portable "Reporter" Standard Model \$199.50 Deluxe Model \$237.50	80-7,000 cycles	Portable, battery-operated recorder with spring motor drive. Power for amplifier furnished by dry batteries. Spring drive lasts for 7 minutes at 7 1/2"/sec. tape speed. Can also be adjusted for 3 3/4"/sec. tape speed. Can be rewound while recording. Single control — off, playback record. Complete with batteries, microphone, head phone (or speaker) and tape. Standard Model includes provision for headphone playback only. Deluxe Model includes output amplifier and loudspeaker. Weight, 12 lb. Made in England.
MAGNETIC RECORDING INDUSTRIES 11 East 16th St. New York 3, N. Y.	 Voice-Master Dispatcher \$255 Voice Master Streamliner 165 Voice-Master Companion 199 Voice-Master Ordertaker 155	100-4,500 cps 100-4,500 cps 100-6,000 cps 100-4,500 cps	Magnetic Disc dictating and transcribing machines recording on pre-grooved, reusable magnetic discs. Features include manual, semi-automatic or fully automatic control, automatic error correction, direct disc indexing, instant stop-start, and syllable-controlled backspacing (from mike or foot control). Weight, 12 lb. Fully automatic dictating-transcribing unit in portable case also available. Semi-automatic dictating-transcribing unit Manual control dictating unit Fully automatic transcribing unit Telephone recording unit

Manufacturer	Model and Price	Frequency Response	Data
MAGNETIC RECORDING INDUSTRIES 11 East 16th St. New York 3, N. Y.	 "Sychrotone" Dual Magnetic Recorder Model VM-62-1 \$289.00	to 10,000 cycles at 7 1/2"/sec.	Two independent channels on standard 1/4" tape; each channel with independent recording — playback facility; simultaneous recording on channel 1 and playback of channel 2; simultaneous playback of channel 1 and channel 2; simultaneous (binaural) recording on channel 1 and channel 2; facilities for listening optionally to channel 1 or channel 2 or to both channels. Loudspeaker or head-phone listening; two speeds (either 3 3/4 and 7 1/2 or 1 7/8 and 3 3/4 inches per second); push-button operation of record, listen, fast forward, fast reverse, and stop. Twin neon recording level indicators. Weight, 30 lb.; 110-120 Volts, 60 cycles; 100 Watts.
	Magneticon Add-A-Booth Language Laboratories		Provide combined use of magnetic discs, magnetic tape and phonograph records. Data on request.
MARK SIMPSON MFG. CO. INC. 32-28 49th St., Long Island City 3, N. Y.	 "MASCO" Model 53 \$250.00 Model 53R (with radio) \$290.00	80-8,500 cycles (±3 db) at 7 1/2"/sec. 80-5,000 cycles (±3 db) at 3 3/4"/sec.	Portable dual-track, two speed recorder with 5 watts power output. Push button for instant speed change with automatic equalization. Separate take-up and drive motors. Flutter and wow, 0.3%. Monitoring switch for head-phone, internal or external speaker. Inputs for microphone and radio-phono. Outputs for external amplifier, speaker or telephone line. Motor switch separate from amplifier. Weight: 40 lb. without radio—43 lb. with radio. Records from radio to tape without external connections.
	 "MASCO" Model 500 \$168.50	50-12,000 cycles (±3 db) at 7 1/2"/sec. 50-7,000 cycles (±3 db) at 3 3/4"/sec.	Portable two-speed, dual track recorder with single shift-knob control of all functions. Signal-to-noise, over 45 db. Wow, less than 0.3%. Power output, 5 watts. Includes standby and monitor switch, two neon recording level indicators, safety record-lock button, 5" x 7" oval speaker, ceramic microphone and patch cord. Inputs for microphone and radio-phono. Outputs for external speaker and external amplifier. Weight, 23 lb.
	 Mitchell Model 1425 \$139.95	65-10,000 cycles at 7 1/2"/sec.	Portable, dual-track recorder with tape speeds of 7 1/2" and 3 3/4" per second. Fast forward and rewind, 90 seconds for 1200 ft. reel. Bias-erase frequency, 50 kc. Power output, 2 watts undistorted, 3 watts maximum. Built-in 6" speaker. Inputs for microphone and radio-phono. Outputs for external speaker and external amplifier or monitor. Neon recording level indicator. Recording time indicator. Ceramic microphone included. Weight, 22 1/2 lb.
MOHAWK BUSINESS MACHINES CORP. Brooklyn 33, N.Y.	 Mohawk "Midgetape" Battery Operated Portable \$249.50	200-5,000 cycles (±5 db) at 1 7/8"/sec.	Portable, dual-track recorder. Self-contained battery power supply. Battery life 45 hours. Battery life indicator light. Cartridge-loaded (1 1/2 hour to a side.) Rewind, manual, two minutes for 1 1/2 hour recording. 3 controls: On-Off, Play-Record, and Volume. Wow and flutter, less than 0.7%. Signal-to-noise ratio, 42 db. One microphone input, high impedance (1 mv min.). Output for earphone or external amplifier. Tape, 1/4", "Mylar" base. Supplied with microphone earphone, batteries, and tape. Accessories available. Size: 8 1/2" x 3 7/8" x 1 7/8". Weight, 3 lb.
OERLIKON TOOL & ARMS CORP. OF AMERICA Business Machines Div. P.O. Box 3049 Asheville, N.C.	 Vanguard Dictating and Transcribing Machine \$392.50	80-8,000 cycles	Magnetic sheet size 8 1/4" x 11", 10 minutes dictation time. Complete combination model including conference recording, telephone recording, foot control start-stop and backspace, earset, microphone with or without playback speaker. The only machine on which an automatic copy of the dictation can be made simply by inserting two sheets at one time. Sheets are erasable and reusable indefinitely. May be folded and mailed or filed away. Equipped with 5" PM speaker.

Manufacturer	Model and Price	Frequency Response	Data
THE PENTRON CORPORATION 777 South Tripp Avenue, Chicago 24, Ill.	 Pentron "Clipper" Model RWN \$129.50	50-9,000 cycles at 7 1/2"/sec. 50-5,000 cycles at 3 3/4"/sec.	Portable two speed, dual-track recorder with Monomatic single slide-knob control for tape speed, record, play, fast forward and rewind. Signal-to-noise, 42 db. Flutter, under 0.5% at 7 1/2"/sec. Power output, 4 watts. Neon bulb recording level indicator. Inputs for microphone and radio-phono. Outputs for auxiliary speaker and amplifier. Microphone included. Also available with single track heads. Weight, 23 lb.
	 Pentron "Pacemaker" Model T-90 \$189.50	50-10,500 cycles at 7 1/2"/sec. 50-5,000 cycles at 3 3/4"/sec.	Portable dual-track, two speed recorder with Unimagic single-lever control for play, record, fast forward and rewind. One knob speed change. Signal-to-noise, 50 db. Flutter, less than 0.3% at 7 1/2" per sec. Fast forward and rewind, 70 seconds for 1200 ft. Power output 5 watts. Electronic eye recording level indicator. Two Alnico V speakers, 1 woofer and 1 tweeter. Automatic index counter. Inputs for microphone and radio-phono. Outputs for external speaker or amplifier. Weight, 27 lb.
	Pentron "Emperor" Model HF-400 \$249.50	40-12,000 cycles at 7 1/2"/sec. 40-6,000 cycles at 3 3/4"/sec.	Mechanically similar to Model T-90. Has illuminated VU meter and three-speaker sound system with two 6" woofers and separate 4" "roving" tweeter. LC crossover network at 1000 cycles. Power output, 10 watts push-pull. Weight, 33 lb.
	 Model MP-2 basic recorder with preamp. \$174.50	50-12,000 cycles (±3 db) at 7 1/2"/sec.	Basic tape mechanism and preamp in portable case, designed for use in hi-fi systems. Tape mechanism has "Unimagic" single lever control, dual track heads with removable pole pieces. Push-pull speed change. Preamplifier provides record-erase bias and necessary audio output to feed amplifier of hi-fi system. VU meter for recording level. Equalization switch for tape speed. Signal-to-noise, 47 db. Inputs for microphone, radio-phono. Components available separately for custom installation.
	 Pentron Tape Player Model PB-A2 \$119.50	50-8,000 cycles at 7 1/2"/sec. 50-5,000 cycles at 3 3/4"/sec.	Portable magnetic tape reproducer, for playback only of any standard 1/4" tape recorded with dual track at 7 1/2" or 3 3/4" per second (single-track heads available at slightly higher cost). Flutter less than 0.5%. Fast forward and rewind speed, 20 to 1. Complete with amplifier and speaker. Weight, 22 lb.
	 Pentron "Dynacord" Model DTM Tape Mechanism \$395.00 Model DS-10 Preamplifier \$90.00 Tape Mechanism Case, \$40.00 Amplifier Case, \$25.00	40-15,000 cycles (±2 db) at 15"/sec. 40-10,000 cycles (±2 db) at 7 1/2"/sec.	Professional type, dual-speed recorder for rack or portable mounting. Standard speed, 7 1/2" and 15"/sec. Also available for 3 3/4" and 7 1/2" speeds. Signal-to-noise, over 55 db. Flutter and wow, under 0.2% at 15"/sec. Starting and stopping time, 0.1 second at 15"/sec. Playback timing accuracy, ± 0.2%. Rewind time, less than 60 sec. for 2400 ft. reel. Three separate heads. High inertia, direct capstan drive. Dynamic braking. Push-button controls with automatic cycling for record, fast traverse, play and stop. Erase interlock, automatic stop and instantaneous stop bar. Monitors from input or from tape while recording.
PREMIER ELECTRONIC LABORATORIES 382 Lafayette St. New York 3, N. Y.	 "Tapesonic" Model 70-B \$368.50	40-16,000 cycles (±3 db) at 15"/sec. 40-13,000 cycles (±3 db) at 7 1/2"/sec.	Portable professional type dual track unit with 4 1/2" VU meter. Three separate heads, permitting instantaneous monitoring from tape while recording. A.B. switch permits comparison between original and recorded program. Push button operation using seven relays and one solenoid. Three speeds. Flutter and wow, 0.1% at 15"/sec.; 0.2% at 7 1/2"/sec.; 0.3% at 3 3/4"/sec. Mixing channels for mike, radio or phono inputs. Three heavy duty dynamically balanced motors. Fast forward and rewind, less than one Min. for 10 1/2" reel. Electro dynamic brake action and tape tension. D.C. on preamp heaters. Push-pull 12 watt audio output.