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# QUICK FACTS ON MAGNETIC TAPE RECORDERS

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

Monufacturer	Model and Price	Frequency Response	Daia
	A-SERIES Ployer-Recorders STEREOPHONIC A121 Consolette \$495.00 A122 Portable \$449.50  MONAURAL A111 Consolette \$439.50 A112 Portable \$395.00	At 7½"/sec. 30-15,000 cycles ±2 db. 50- 10,000 cycles  At 3¾"/sec. 30-7,500 cycles ± 2 db 50- 5,000 cycles	Two-speed units with half-track heads for dual-track recording and monaural or stereophonic playback (in-line heads) through separate amplifier-speakers. Half-track erase heads. Signal-to-noise, better than 50 db below peak record level at 7½"/sec and 40 db at 3¾"/sec. Flutter and wow, under 0.25% at 7½"/sec, 0.3 at 3¾"/sec. Rewind time, less than 90 sec. for 1200 ft. Inputs: high impedance line 0.75V rms for program level; high impedance microphone. Playback output greater than 0.75 rms into high impedance load. Portable units weigh 35 lb. Consolettes in blond or mahogany finish.
	A621 Amplifier Spkr. (Console) \$229.50 A692 Amplifier Spkr. (Portable) \$199.50	1	Ten watts output with noise 70 db below rated output. Response essentially flat from 65 to 10,000 cycles. Controls for volume, equalization, selector for tape, TV, tuner or phono.
	CONSOLE MUSIC SYSTEMS A423 \$1470 A323 \$1070	(as above)	A423 console includes A121 stereophonic recorder, AM-FM radio, 3-speed record player and two amplifier-speaker systems for stereo tape playback. A323 includes A121 stereophonic recorder and amplifier-speaker systems only.
AMPEX ELECTRIC CORPORATION 934 Charter St.,	Model 601 Portable Tape Recorder \$545.00	40-15,000 cycles (±4 db) o? 71/2"/sec. (±2 db 40 to 10,000 cycles)	Portable, professional-type single-track or dual-track recorder with 71/2" tape speed. Takes up to 7" reels. Signal-to-noise, over 55 db. Flutter and wow, below 0.17%. Starting and stopping time, less than 1/5 second. Fast forward and rewind, 90 seconds for 1200 ft. Timing accuracy ± 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.
Redwood City, California	Model S-5290 2-Track Stereophonic Portable \$995.00	(±2 db 50 to 10,000 cycles)	Model 601 tape transport with two modified 601 electronic chassis. Full-track erase, two-track record and two-track playback. Signal-to-noise, over 50 db either channel. Inter-track crosstalk rejection, over 50 db.
	Model 300-C Console Tape Recorder \$2046.00	30-15,000 cycles (±2 db) at 15"/sec. 40-15,000 cycles (±4 db) at 7½"/sec. (±2 db 40 to 10,000 cycles)	Professional-type, single-track, dual-speed recorder operating at 15" and 71/2" 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, ± 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 helow. 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 71/2"/sec. 50-7,500 cycles (±2 db) at 33/4"/sec.	Professional-type single or dual-track recorder with tape speeds of 7½" and 15" or 3¾" and 7½". Signal-tonoise, 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. ± 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.
	Other Equipment:		Two and three channel recorders for stereophonic or binaural sound recording and parallel recording. Portable or rack mounting. Information on request.
AMPLIFIER CORPORATION OF AMERICA 398 Broadway New York 13, N. Y.	VU "Mognemite"         Model         Speed in/sec.         Price           610-AV         15/16         \$365           610-BV         17/8         315           610-CV         33/4         345           610-DV         71/2         365           610-DV         71/2         385           610-EV         15         425	300- 2,500 cps 100- 3,000 cps 50- 5,000 cps 50- 7,500 cps 50- 7,500 cps	Completely self-contained battery-operated portables with spring motor drive. 610-DV and EV are single track—others, dual track. Winding interval 3 to 30 min., depending on tape speed. Motor can be rewound while operating. VU meter for measuring record level, output level, "A" battery and "B" battery. Playback through earphones or external amplifier. PM erase optional at extra cost. High and low level inputs. Output impedance, 50,000 ohms. Incoming signal can be monitored by VU meter or earphones. Dimensions, $61/2$ " x $91/2$ " x $14$ ". Weight, approx. 19 lb.

### MISCELLANEOUS AUDIOTAPE ITEMS

Item	Type No.	Description	List Price
EMPTY AUDIOTAPE REELS IN INDIVIDUAL BOXES  Standard Reels	3PB 4PB 5PB 7PB 10RB 10FS 14RB 10H	3" Plastic Reel in Box 4" Plastic Reel in Box 5" Plastic Reel in Box 7" Plastic Reel in Box 10½" Aluminum Reel in Box 10½" Fiberglass (RETMA) in Box 14" Aluminum Reel in Box NARTB Metal Hub	\$.25 .45 .60 .75 4.00 4.00 7.40 .70
Colored Plastic	5PBR 5PBY 5PBG 5PBB	Red Yellow Green Blue	.60
Reels	7PBR 7PBY 7PBG 7PBB	Red Yellow Green Blue	.75
EMPTY AUDIOTAPE BOXES	3B 4B 5B 7B 103 148	For 3" Reel For 4" Reel For 5" Reel For 7" Reel For 10½" Reel For 14" Reel	.15 .20 .20 .20 .75
CORRUGATED MAILING BOXES Strong, re-usable contoiners	5M 7M 10M	For 5" Reels For 7" Reels For 10½" Reels	.15 .20 .30
RECORDING HEAD CLEANER Superior to corbon tetrachloride	1HC	One oz. Bottle with Brush	.65
A strong, durable leader tape of white "Mylor" material with spaced markings to permit accurate rate timing of leader intervals.	3L	100 ft., ¼" wide, Individually Boxed	.55
Provide positive identification of your topes, right on the reel. Simply press to apply, pull off to remove.	30AL	Envelope of 30, 2" x 2½" lobels	.20
Removes all permanent magnetism from recording and reproducing heads in a matter of seconds.	400	With 7-ft. Cord, Individually Boxed	10.00
AUDIO HEAD ALIGNING TAPE Pre-recorded at 2,000, 10,000 and 15,000 cps (15"/sec.) with precisely correct head alignment. Individually boxed, with instructions	200	300 ft. on 5" reel, individually boxed, with instructions	10.00
how to make GOOD TAPE RECORDINGS This completely new handbook of tape recording contains up-to-lhe-minute in-	25C	Deluxe clath-bound edition	2.50
formation of interest and real practical value to every tape recordist. Profusely illustrated with photographs, charts and diagrams prepared especially for this book, it contains 150 pages of valuable information on all phases of modern tape recording.	1 <i>5</i> P	Paper-bound edition	1.50

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AUDIO RECORD

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#### , 1956



# The COMPLETE LINE of professional quality

# audiotape

"it speaks for itself"

	Description	Type No.*	Length	Reel↑	List Price Each
audiotape	PLASTIC-BASE AUDIOTAPE on 1½-mil cellulose acetate (in the Red Box)  Meets the most exacting requirements of the professional, educational and home recordist at minimum cost. Known the world over for its matchless performance and consistent uniform quality. Series 51.	151 351 651 1251 2551H 2551R \$2551FS 5051H 5051R	150 ft. 300 ft. 600 ft. 1200 ft. 2500 ft. 2500 ft. 5000 ft.	3" Plastic 4" Plastic 5" Plastic 7" Plastic NARTB Hub 101/2" Aluminum Reel 101/2" Fiberglass (RETMA) NARTB Hub 14" Aluminum Reel	\$ 0.70 1.35 2.25 3.50 8.50 10.90 10.90 17.00 22.10
	COLORED PLASTIC-BASE AUDIOTAPE on 1½-mil cellulose acetate (in same box as above with label for color)  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) — permit fast and easy color cueing and color coding. Eliminate need for identifying leaders between selections.	GREEN BLUE  151G 151B 351G 351B 651G 651B 1251G 1251B 2551HG 2551HB 2551RG 2551RB \$2551RG \$2551RB\$ 5051HG 5051HB 5051RG 5051HB 5051RG 5051RB	150 ft. 300 ft. 600 ft. 1200 ft. 2500 ft. 2500 ft. 5000 ft.	3" Plastic 4" Plastic 5" Plastic 7" Plastic NARTB Hub 101/2" Aluminum Reel 101/2" Fiberglass (RETMA) NARTB Hub 14" Aluminum Reel	.70 1.35 2.25 3.50 8.50 10.90 10.90 17.00 22.10
St on sock to prod	"LR" LONGER-RECORDING AUDIOTAPE on 1-mil Mylar polyester film (in the Black and Red Box)  50% more recording time per reel. The strong, super-durable polyester film base assures trouble-free operation even under severe conditions of heat and humidity. Series 61.  DuPont Trade Mark	261 961 1861 3661H 3661R ‡3661FS 7261H 7261R	225 ft. 900 ft. 1800 ft. 3600 ft. 3600 ft. 7200 ft. 7200 ft.	3" Plastic in Self-Mailer Pkg 5" Plastic 7" Plastic NARTB Hub 101/2" Aluminum Reel 101/2" Fiberglass (RETMA) NARTB Hub 14" Aluminum Reel	1.00 3.75 6.50 12.50 15.00 15.00 26.00 32.00
Associated and the second and the se	PLASTIC-BASE "LR" AUDIOTAPE on 1-mil cellulose acetate (in the Blue Box)  50% more recording and playbock time on low-cost 1-mil cellulose acetate bose, afford- ing maximum economy for applications where high strength is not required. Series 41.	941 1841 3641H 3641R 3641R 7241H 7241R	900 ft. 1800 ft. 3600 ft. 3600 ft. 3600 ft. 7200 ft.	5" Plastic 7" Plastic NARTB Hub 101/2" Aluminum Reel 101/2" Fiberglass (RETMA) NARTB Hub 14" Aluminum Reel	3.50 5.50 10.00 12.85 12.85 20.00 26.00
audiotape Mylar	AUDIOTAPE ON 1½-MIL "MYLAR" (in the Green Box)  A premium-quality professional tope that provides the utmost in mechanical strength and immunity to temperature and humidity. Will not dry out or embrittle with age. Series 71.	671 1271 2571H 2571R 2571R \$2571F5 5071H 5071R	600 ft. 1200 ft. 2500 ft. 2500 ft. 2500 ft. 5000 ft.	5" Plastic 7" Plastic NARTB Hub 10½" Aluminum Reel 10½" Fiberglass (RETMA) NARTB Hub 14" Aluminum Reel	4.25 7.00 12.75 15.15 15.15 30.30 36.30
SUPER THIN audiotape	SUPER-THIN AUDIOTAPE on 1/2-mil "Mylar" (in the Yellow Box)  Twice as much recording time per reel as standard plastic-base tape. Suitable for extended-play applications where tape tension is not excessive. Series 31.	1231 2431	1200 ft. 2400 ft.	5" Plastic 7" Plastic	5.00 9.25

<sup>\*</sup> Type Numbers listed cover red oxide wound on reel with OXIDE IN. Far tope wound with Oxide Out, change last digit of Type No. from "1" to "0". E.g. Audictope 1250 covers 1200 ft. reel of plastic base tape wound with Oxide Out. 

\* COLORED PLASTIC REELS. Audiotape on 5" and 7" plastic reels can be supplied on colored reels at no increase in price when ordered in lats of

30 reels or more of any one color. To designate color of reel (Red, Yellow, Green or Blue) add letters "RR" and "YR", "GR" or "BR" to Type Na. Listed. E.g.—Type 1251YR covers 1200 feet of standard plastic-base tape on Yellow Reel. Type 1251GBR covers 1200 feet of Green plastic-base tape on Blue Reel. "FS" in Type No. indicate Fiberglass reel with solid hub and 5/16" center hole.

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Manufacturer	Model	and Price			Frequency Response	Data
		Model 610-A 610-B 610-C 610-TD 610-5D 610-E 610-DM 610-EM	Speed in/sec.  15/16 17/8 3 3/4 7 1/2 7 1/2 15 5/16-7 1/2 17/8-15	Price \$275 225 255 275 295 335 355 395	300- 2,500 cps 100- 3,000 cps 50- 5,000 cps 50- 7,500 cps 50- 7,500 cps 50-15,000 cps as above	Completely self-contained, battery-operated portables with spring motor drive. Models 610-SD and -E, one track. Four speed models 610-DM and -EM, one or two track. All others dual track. Winding interval, 3 to 15 min. Motor can be rewound while operating. Indicator signals 30 sec. before motor rewind. Playback through headphones or external amplifier. Optional erase. Dimensions, 11" x 8" x 5" for 610-A and -B; 11" x 10" x 7" for all others. Weight, 12 to 17 lb.
		"Ma ( Add )	athertite gnemites \$30 to p td. Units	rice	as above	All standard "Magnemites" available in weather-tight sealed aluminum cases with tongue and grooved edges and built-in neoprene gasket seals. Will successfully withstand severe environmental conditions. Satin finished case anodized to resist corrosion.
AMPLIFIER CORPORATION OF AMERICA 398 Broadway New York 13,		Flyweight agnemite'' 310-A 310-B 310-C 310-TD 310-SD 310-E	15/16 17/8 33/4 71/2 71/2 15	340 290 320 340 360 400	300- 2,500 cps 100- 3,000 cps 50- 5,000 cps 50- 7,500 cps 50- 7,500 cps 50-15,000 cps	Portable, battery-operated electric motor driven recorders with single tape speed. Models 310-SD and 310E are single track, others dual track. Net weight, only 8 lb. Max. reel size, 5". Rewind time, 2 min. Earphone monitor and playback. No erase. PM erase available as optional feature. Powered by 5 replaceable mercury batteries. Dimensions, 5½" x 9" x 12".
N. Y.	7	"5ecret ecorder" 210-B	1 7/8	349	100- 3,000 cps	Hidden in zipper compartment of briefcase, operates anywhere on dry cell batteries. Hidden microphone and concealed start-stop clasp switch. Dual track, single or 2-speed recorder operates on replaceable batteries.
(other models available)		210-BC	1 1/8 3 3/4	369	100- 3,000 cps 50- 5,000 cps	Maximum reel size 5". Rewind time, 2 min. Earphone playback. No erase. PM erase available as optional feature. Weight complete, including briefcase, 11¾ lb.
	"Magneloop" Continuous	535-B 535-C 535-D 535-E DUAL 536-B 536-C	17/8 3 3/4 7 1/2 15 CHANN 1 17/8 3 3/4 7 1/2	345 365 385 405	50- 2,500 cps 50- 7,500 cps 50-10,000 cps 50-15,000 cps 50- 2,500 cps 50- 7,500 cps 50- 10,000 cps	Designed to record and play back any messages, musical programs or sound effects up to 60 min. in length on cartridge-loaded endless loop of std. 1/4" tape. Automatic erase, Push-button start and stop, switch or relay remote control. Electronic eye recording level indicator. Microphone and bridging inputs. Output impedance, 600 ohms. Output level, +6VU. Headphone monitoring. Standard rack panel mounting or custom rack cabinet. Size, 19" x 83/4" x 91/2".
	Loop Tape Recorder  "Stereo-Magnemite"	536-E 611-C 611-D 611-E	3 <sup>3</sup> / <sub>4</sub> 7 <sup>1</sup> / <sub>2</sub> 15	355 395 435	100- 3,000 cps 50- 7,500 cps 50- 7,500 cps 50-15,000 cps	Weight, 24 lb.  Portable, stercophonic battery-operated spring-motor recorder. Mechanically similar to 610 series. Two separate channels for stereophonic recording. Independent gain for each channel. Can be monitored with binaural headphones while recording. Optional P.M. erase. Playback through earphones or external amplifiers and speakers. Input impedance, 1 Megohm. Output impedance, 50,000 ohms. Size, 8½" x 11" x 10". Weight, 17 lb.
AMPRO CORPORATION 2835 North Western Ave. Chicago 18, III. For information write to GRAFLEX, INC, 154 Clarissa St. Rochester B, N. Y.		Mod	-Fi Two : el 757 el 757T	\$249.95	40-12,500 cycles at 7½"/sec.  40-6,000 cycles at 3¾"/sec.	Portable, dual-track, dual speed recorder with or without built-in radio tuner. Includes "Piano Key" controls, electronic eye recording level indicator, automatic selection locator, and provision for mixing and monitoring live and radio-phono inputs. Flutter and wow, less than 0.5%. Fast forward, 72"/sec. Rewind, 120"/sec. Signal-to-noise, 42 db. Power output, 3.2 watts. Built-in 6" x 9" PM speaker. Input receptacles for microphone, radio-phono, or remote control. Weight, 34 lb.
AUDIOMATION LABORATORIES 7230 Clinton Rd. Upper Darby 23, Po.	<b>E</b>	Witho	CERTCAS tinuous T Player out Pwr. \$835.00 OW Pwr. \$905 5W Pwr. \$935	ope Amp. Amp.	40-8,000 Cycles at 3 <sup>3</sup> / <sub>4</sub> "/sec. 40-15,000 Cycles at 7 <sup>1</sup> / <sub>2</sub> "/sec.	Heavy-duty console type tape phonograph for providing up to 8 hours of unattended, background music without repetition. Two speeds. Automatic reversal and shut-off with unmodified tape. Automatic, continuous re-cycling or shut-off controlled by switch on panel. Simple controls, light tape tension. Easy and precise head alignment. Signal-to-noise, better than 50 db at 7½"/sec. Hysteresis synchronous capstan motor and two 4-pole torque motors. Max. reel size, 14".

Monufacturer	Model and Price	Frequency Response	Data
AUDIOMATION LABORATORIES 7230 Clinton Rd. Upper Darby 23, Pa.	FIDELIVOX Continuous To Player With single-en unbalanced Pre \$730.00 With push-ph balanced Prec \$755.00	ded, 33/4"/sec. amp. 40-15,000 cycles at cycles at	Heavy-duty rack-type tape phonograph for providing up to 8 hours of unattended, background music without repetition. Mounts in 31½" of space in standard 19" rack. Mechanical and electrical data similar to Concert caster model, shown on Page 3.
	VoryTape System With push-pull lir Amp. plus 8 VU, bolanced \$1,750.00	e	Consists of two identical Fidelivox automatic 8-hour tape-handling mechanisms arranged for unlimited variation of program continuity by the automatic inter-mixture of the music content of any two reels. Automatically stops one mechanism and starts the other whenever 30 seconds or more of silence occurs on the tape being played. Permits up to 16 hours of music without repetition. Cycling fully automatic and infinitely adjustable.
BELL & HOWELL COMPANY 7100 McCormick Rd. Chicago 45, III.	Bell & How Miracle 20 Model 300 Mahogan \$299.50 Model 300 Blond Oc \$314.50	50-10,000 cycles (±2 db) at 7½"/sec. 50-6,500 cycles (±3 db) at 3¾"/sec.	Manual turnover dual-track recorder with tape speeds of 71/2" and 33/4" per second. Four speakers: two 8" wooters on opposite sides of case and two electrostatic tweeters behind front grill. Three separate motors with electro-magnetic instant braking. Interlocking push-button controls for stop, forward, rewind, play, speaker and record (with safety lock). Automatic tape shut off. Program indicator with manual reset. Fast forward and rewind, 1200 feet in 40 seconds. Wow and flutter below 0.2% at 71/2"/sec. Delivers over 8 watts audio. Signal-to-noise, better than 40 db. Distortion less than 3% at 4 watts. Speaker selector switch. Output jacks for external amplifier and speaker. Two neon record level lamps. Illuminated volume and tone controls. Prices include controlled reluctance microphone, power cord, radio-phono patch cord and 7" reel.
	TDC "Stereote Portab \$249.:	le	Two speed, manual turnover dual track recorder. Vertical design with 10 inch extended range speaker. Tape speeds of 7½" and 3¾" per second. 7" maximum reel size. Three separate motors with electro-magnetic instant braking. Interlocking push button controls for stop, forward, rewind, play, speaker and record (with safety lock). Automatic tape shut off. Program indicator. Fast forward and rewind, 1200 feet in 40 seconds. Wow and flutter helow 0.2% at 7½" per second. Delivers over 8 watts audio. Signal-tu-noise, better than 36 db. Distortion, less than 3% at 4 watts. Output jacks for external amplifier and extension speaker. Two neon record level lamps. Illuminated volume and tone controls. May be used as public address system. Prices include controlled reluctance microphone, power cord, radio-phono patch cord and 7" recl.
BELL SOUND SYSTEMS, Inc. Celumbus 7, Ohio	Model R Three-5p Record \$164.5	eed 30-7,500 cycles at 33/4"/sec.	Portable dual-track recorder with single-lever speed selector for 7½", 3¾" or 1½" 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-phono input. Outputs for external speaker and external amplifier. Power output, 3.5 watts. Crystal microphone included. Weight, 35 lb.
	Model R Two-5pg Record \$139.9	50-10,000 er cycles at	Dual-track recorder with tape speeds of 7½" and 3¾4" 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-phono. Outputs for external loudspeaker and monitor head-phones. Power output, 3.5 watts. Weight, 27 lb.

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Monufacturer	Model and Price	Frequency Response	Data
WEBSTER ELECTRIC CO. Racine, Wisconsin	"Ekotape" Portable Model 260 \$225.00	40-7,000 cycles at 71/2"/sec. 40-4,000 cycles at 33/4"/sec.	Portable, two-speed, dual-track recorder similar to Model 250 on Page 16 except as follows. Signal-to-noise, 35 db. Neon glow tube recording level indicator. Output jack for external speaker. Power output, 2½ watts at 5% distortion. Weight, 29 lb.
	Model 375 \$99.95 Model 620 (5pecial 375) \$109.95	85-7,000 cycles at at 3/4"/sec.	Portable, single speed, dual-track recorders with "Prest-Omatic" push-button keyboard. Signal-to-noise, 35 db. minimum. Wow and flutter: 0.5% at 33/4"/sec., 0.35% at 71/2"/sec. Neon normal and overload recording level indicators. Record lock button prevents accidental erase. Fast forward and rewind, less than 23/4 min. for 1200 ft.
	Model 750 \$99.95 Model 621 (5pecial 750) \$109.95	85-8,000 cycles at 71/2"/sec.	Amplifier, 3 watts output. Input for radio-phono-TV. Output for earphone monitoring or external speaker. Includes 4" round speaker and crystal microphone. Weight, 26 lb. "Special" models same as above, but in deluxe tu-tone case.
	The Jet Model CL622 Cartridge Loader \$129.95	65-9,000 cycles at at 33/4"/sec.	Portable, dual-track recorder with 33/4"/sec. tape speed and cartridge tape loading. Signal-to-noise, 35 db minimum. Wow and flutter, 0.5%. "Magic Eye" recording level indicator. Record lock button. Amplifier, 3 watts output. Output for earphone monitoring or external speaker. Includes 4" x 6" speaker, microphone, and cartridge of pre-recorded tape. Weight 22 lb.
WILCOX-GAY CORPORATION	The Master Model 642 (2 speakers) \$149.95	80-8,50C cycles at 71/2"/sec.	Portable, two-speed, dual-track recorders with tape speeds of 7½" and 3¾"/sec. by switch control. Signal-to-noise, 35 db minimum. Wow and flutter: 0.3% at 7½"/sec., 0.5% at 3¾"/sec. Neon normal and overload recording level indicators. Other recorder features same as for
Charlotte, Michigan	The Deulxe Model 651 (3 speakers) \$189.95	65-10,000 cycles at 7½"/sec.	Models 375 and 750 above. Model 642 has one 5" x 7" elliptical and one 4" round speaker. Weight 33 lb. Model 651 has tape timer and one 6" x 9" elliptical, one 4" round speaker and one "tweeter". Weight, 35
	The Convertible Model 674 (5 speakers) \$229.95	65-12,500 cycles at 71/2"/sec.	lb. Model 674 has tape timer, 7 watt amplifier output and 5 speakers — one 6" x 9", two 4" and two "tweeters". Also three extension speaker jacks. Weight, 40 lb. Steel tube legs convert portable unit to chair-side consolette.
	The Imperial Model 686 (6 speakers) \$269.95 The Coronet Model 785 (7 speakers, clock radio) \$329.95	65-15,000 cycles at 7½"/sec.	Portable, two-speed, dual-track recorder with 71/2" and 3/4"/sec. tape speeds, visual tape timer, remote control and six speakers—two 6" round, two 4" round and two high frequency electrostatic "tweeters". Signal-to-noise, 35 db minimum. Wow and flutter: 0.2% at 71/2"/sec., 0.38% at 33/4"/sec. Amplifier output, 8 watts. Other recorder features same as for Model 674 above. Weight, 47 lb. Model 785 same as Model 686, except with seven speakers and built-in Telechron-timed 8-tube clock radio. Speaker system includes two 6" round, two 4", two high-frequency electrostatic "tweeters" plus one roving 12" P.A. type speaker in base with 25' extension cord. Weight, 50 lb.
	Tape-Disc Recordia Model 4C-10 \$199.95	80-6,000 cycles at 33/4"/sec.	Portable combination tape and disc recording and reproducing unit with 33/4" 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 other net.

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Manufacturer	Model and Price	Frequency Response	Data
V-M CORPORATION Benton Harbor, Michigan	"Celeste"  Sterea/Ployback Toble Model 750 \$259.95	40-15,000 cycles (±5 db) at 7½"/sec.	Teams with any other amplifier-speaker for stereophonic playback. Two-speed, dual-track monaural recorder with 3 speakers—two heavy-duty 8" woofers and a 3.5" tweeter. Power output, 5 watts. 75 KC record bias and power erase. Better than 45 db signal-to-noise ratio. Less than 0.4% RMS flutter and wow. External amplifier and speaker jacks, push-button controls, precision tape index counter, "recording normal" light, "distort" light, automatic shutoff, balanced tone control, monitor switch, pause button, safety switch, 3-way input receptacle and storage compartment. Blonde or mahogany furniture-finished cabinets. Optional legs convert it to consolette.
J. C. WARREN CORPORATION 21 Hanse Aye.,	777 Series Bottery Partables  Tapo Model 777 (blue) \$295.00 Traveler Madel 771-1 (brown) 298.50 Tempa Model 777-2 (gray) 314.00	to at	Portable dual track tape recorders with completely self-contained battery powered tape transport, amplifier and speaker for playback. Rechargeable battery cycle up to eight hours depending on tape speed. Has self-contained battery recharger. May be operated on 110 AC. Rewind is electric: speed 10 to 1. Maximum reel size, 5". May be operated with door open or closed. Monitors while recording. Inputs for microphone and headphone monitoring. Crystal or ceramic microphone included. Accessories include snap-on retractable legs, canvas carrying case and shoulder strap. Weight 21 lbs. Size 6" x 10" x 15".
Freeport, N. Y.	Privateer Mark VIII \$379.00	to 3,500 cycles at 1½"/sec.	Portable dual track tape recorder, self-contained recharge- able batteries. Rewind electric. No batteries to replace. Battery charger separate unit but included in price. Units may be operated in covert fashion in briefcase from external concealed switch and making use of external concealed microphone. Available accessories include input level indicator, headset, external microphone, telephone recording adaptor.
WEBSTER- CHICAGO CORPORATION	Webcar "Royal" with Radia \$229.95 withaut Radia \$189.95	50-10,000 cycles at 71/2"/sec. 50-7,500 cycles at 33/4"/sec.	Portable, two speed, dual-track recorder with two recording heads permitting track change without reel turnover. Signal-to-noise, 50 db. Wow and flutter, less than 0.4%. Electronic eye recording level indicator. Four-way master control. Automatic shut-off at either end of tape. Speedometer-type footage counter. Power output, 8 watts. 6" wide range speaker. Output selector switch for normal recording, monitoring or external amplifier. Inputs for microphone, radio-phono, other tape recorder. Weight, 47 lb. Radio tuner (when furnished) is transistor type with printed circuit.
5610 Bloomingdale Ave., Chicago 39, III.	Webcar "Royal Coranet" with Rodio \$279.95 without Rodia \$239.95	50-12,000 cycles of 7½"/sec. 50-8,000 cycles at 3¾"/sec.	All features same as "Royal" model, except in larger case with three-speaker system consisting of two 6" and one 4" speaker with total cone area of 65 sq. in. Weight, 54 lb.
WEBSTER ELECTRIC CO. Racine, Wisconsin	"Ekotape" Model 250 (Partoble) \$269.50  Model 252 (Limed Ook) \$289.50  Model 254 (Mahogany) \$289.50	30-10,000 cycles at 7½"/sec. 50-5,500 cycles at 3¾"/sec.	Two speed, dual-track recorders in portable and consolette models. Signal-to-noise, 38 db. Wow, not over 0.3% at 7½"/sec. or 0.5% at 3¾"/sec. Meter-type recording level indicator with red sector to show excessive level. Program selection finder. Central control for fast forward, standard forward, rewind and stop. Fast forward ratio, 15 to 1. Rewind ratio, 15 to 1 at 7½"/sec., 30 to 1 at 3¾"/sec. Provision for foot, manual and electric controls. Two matched 5" speakers. Power output, 6 watts at 5% distortion. Inputs for microphone and rario-phono. Outputs for external speaker and hi-fi system. Weight, 33 lb. Consolette models have one 6" by 9" oval speaker and a 3" round "tweeter." Matched bass reflex speaker available.

Monufacturer	Model and Price		requency Response	Data
BELL SOUND SYSTEMS, Inc. Columbus 7, Ohio	Cub-Co Model (7½ and 3 Model (3¾ and 1 \$224	2260 3/4"/sec.) 20 2261 c 7/8"/sec.) 7	00-6,000 cycles at <sup>1</sup> / <sub>2</sub> "/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, 127/8 lb.
BERLANT- CONCERTONE Division of American Electronics, Inc. 655 W. Washington Blvd., Los Angeles 15, Cal.	CONCERTONE CUSTOM  Models 21, 22, Rock-Mtd. Recorder Model 23, 5tereo Recorder Model 24, 25, 5-O-S Recorder Model 26, Full/Holf Track Recorder BERLANT DELUXE  Models 31, 32, Rock-Mtd. Recorder Models 33, Stereo Recorder Models 34, 35, Deloyed Broadcast Rec. Model 36, Full/Holf Track Recorder BERLANT-AMERICAN  Models 91, 92, Rock-Mtd. Recorder Model 93, Stereo Recorder Models 94, 95, Deloyed Broadcast Rec. Model 96, Full/Holf Track Recorder	\$495.00 cycle at  \$495.00 cycle 695.00 at  695.00 cycle 845.00 cycle 995.00 cycle 1295.00 at  1295.00 at  1295.00 at  1295.00 at  1295.00 at  1295.00 at	0-15,000 15"/sec. 0-13,000 15 (±2 db) 71/2"/sec. 0-5,000 15 (±2 db) 16 (±2 db) 17 (2) (±2 db) 17 (2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	Complete line of broadcast and home hi-fi recorders for portable, rack or custom mounting. All models have following features: Two-speed direct drive motor and two torque motors; 3 heads with provision for 2 more; 4½" UV meter; 2-channel input mixer; A-B test fader and cueing/editing switch. Instant speed selection of 15"/sec and 7½"/sec or 3¾"/sec and 7½"/sec. Signal-to-noise, 55 db by proposed NARTB Standard (full track). Total harmonic distortion, 2% at zero VU. Total flutter and wow, less than 0.1% rms at 15"/sec., 0.2% at 7½"/sec. Fast forward and rewind, less than 60 sec. for 2500 ft. High impedance microphone input and unbalanced bridging input. Output impedance, cathode follower, 600 ohms with plug-in transformer. Berlant Deluxe Series features hysteresis synchronous direct drive for maximum timing accuracy. Berlant American Series features etched circuit construction of electronic assembly and hysteresis synchronous direct drive. Tape player units also available.
	Duj Tapak News	plex c	00-9,000 ycles at 1/2"/sec.	The spring powered equivalent of conventional electric tape recorders. Records, erases, monitors, rewinds at high speed, plays back through built in 4" x 6" loud-speaker for room size audiences, or will feed an external amplifier or public address system. Has new unitized amplifier with transistorized AC bias oscillator for low battery drain and extended frequency range. Speed 7½" per second (3¾" optional). Range: 55.58 db.
BROADCAST EQUIPMENT	News	scaster c	00-9,000 ycles at ½"/sec.	Same as Duplex Newscaster Model with the addition of a miniature VU meter and provision to drive a 500 ohm line. Can thus drive a line while the recorder function stands by ready to record the material in case of line failure. Speed 7½" per second (3¾" optional). Range: 55-58 db.
SPECIALTIES CORP. P.O. Box 149 Beacon, N. Y.	News	caster c	00-6,000 ycles at 1/2"/sec.	The standard attractively priced Tapak for broadcast use. Records, rewinds at high speed, crystal microphone doubles for playback, feeds external amplifier or phono input of radio for loudspeaker reproduction. Recording characteristics for NARTB on studio equipment or home recorders. Speed 7½" per second (3¾" optional). Range: 35-40 db.
	Battery Pocke U \$28 (Ava	nit	00-4,000 cycles	Pocket-size, subminiature tape recorder. Records dual track 1 hour total at 33/4" per second or 2 hours at 11/8" per second. Records, erases, monitors and plays back through earphone or external amplifier. Interlocks prevent accidental erase or "double exposure". Special 4" reels transferable to any recorder. DC motor operated from 15-hour mercury batteries. Dynamic range, 37 db. Wristwatch mike available as optional accessory.
COLUMBIA RECORDS, Inc. 799 Seventh Avenue, New York 19, N. Y.	Mod	del 560 ()	00-5,500 ycles of 1/2"/sec.	Portable, two-speed, dual-track recorder with two large PM speakers and single master control for recording or playback. Tape speeds, $71/2$ " and $3\frac{3}{4}$ "/sec. Can be used as PA system, with or without auxiliary speaker. Automatic erase, fast forward and rewind speeds. One Brush recording and playback head. Neon record-level indicator. 4-watt amplifier. Includes high-impedance ceramic microphone. Approx. shipping weight, $18\frac{1}{4}$ lb.
CRESCENT INDUSTRIES, INC.	"TU (3 3/4 \$8		0-8,500 ycles at	Portable, dual-track recorder with 33/4" tape speed. Automatic 50 kc erase, fast forward and rewind, 3-watt amplifier and neon overload indicator. Signal-to-noise, 43-46 db. Speed control accuracy, ± 2%. Includes ceramic microphone. Weight, 20 lb.  Portable, two-speed, dual-track recorder. Same features
5900 W. Touhy Ave. Chicogo 31, III.	"CUR	TR 772 71 RATOR'' speed) 39.95	1/ <sub>2</sub> "/sec.	as above plus two-speaker design, provision for start-stop foot switch and torque braking. Mike and radio-phono input. Output jack for external speaker or amplifier. Wow and flutter less than 0.5%. Weight, 24 lb.

Manufacturer	Model and Price	Frequency Respanse	Data
CRESCENT INDUSTRIES, INC. 5900 W. Tauhy Ave. Chicage 31, III.	Model TR 773 "PROFESSIONAL" (2-speaker) \$189.95  Model TR 774 "CHANCELLOR" (3-speaker) \$239.95	70-13,000 cycles at 7½"/sec. 60-5,000 cycles at 3¾"/sec.	Portable, two-speed, dual track recorder with illuminated VU meter recording level indicator, bignal-to-noise, 48-51 db. Wow and flutter, less than 0.5%. 4-watt amplifier. Rewind time, 80 sec. for 1200 ft. Provision for foot switch control. Simultaneous monitoring and recording edit control button, ultrasonic erase. Inputs for mike and radio-phono; outputs for external speaker and amplifier. Includes wide-range, controlled rejuctance microphone. TR773 has two speakers; TR774, three speakers. Weight, approx. 28 lb.
De JUR AMSCO CORP. 45th & Northern Blvd., Long Island City, N. Y.	De Jur Dual Professional  Model TK-820 \$399.50  Model TMB-820 (basic recorder for custom installation) \$329.50	40-16,000 cycles (±2 db) of 7½"/sec. 50-10,000 cycles (±2 db) of 3¾"/sec.	Portable dual-track recorder with hysteresis synchronous dual speed reversible motor and push-button track reversal. All functions electronically controlled by pianous 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 7½"/sec.; 0.2% at 3¾"/sec. Harmonic distortion, 0.8% at full rated out put. Power output, 6 watts undistorted. Rewind ratio 15 to 1. Inputs: 2 high impedance, 1 low impedance. Outputs: 1 high impedance, 1 low impedance. Mode TK820 has five speakers: 2 electrostatic "tweeters", 2 P.M. mid-range speakers and 1 P.M. "woofer". Includes wide-range, dynamic cardioid michophone with matching line transformer. Shipping weight, 55 lb.
DuKANE CORPORATION 51. Charles,	"Tru-Fidelity" Recorder Model 11A200 \$395.00	50-10,000 cycles (±1½ db) of 7½"/sec. 50-7,500 cycles (±1½ db) af 3¾"/sec.	Portable, dual-track, dual-speed recorder with 7½ wat 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 foot age counter and exclusive Room Balance Control Weight, 39 lb.
EDUCATIONAL LABORATORIES INC.	Educarder Dual Madel M-6A \$295.00	70-7,500 cycles at 7½"/sec. 70-5,000 cycles at 3¾"/sec.	Portable, two speed, two channel recorder with single knob-control tape mechanism. Two separate record/re produce amplifiers and two separate record-play-erase heads. Records or plays back both channels simultane ously or records on one while playing back the other Monitoring by headphones while recording. Signal-to noise, 40 db. Wow and flutter, 0.3% at 7½"/sec. Fast forward and rewind, 70 sec. for 1200 ft. Nominal .75 watt peak power from each channel. Two input connections for high impedance mikes. Three output connections: Channel 1, Channel 2 and Dual for binaura headphones. Includes headphones and microphone Weight. 30 lb.
1823 Jefferson Ploce, N. W. Washington 6, D. C.	Educarder Dual Madel M-7A \$320.00	70-8,000 cycles (±3 db) at 71/2"/sec. 70-5,000 cycles (±3 db) at 33/4"/sec.	Portable, two speed, two channel recorder, providing same dual functions as Model M-6A above. Recorder unit has push-button control for all functions. Fast for ward and rewind, 2 min. for 1200 ft. Nominal 4 wat peak power from each channel, sufficient to drive dual speakers or over 100 high impedance headphones from each channel. Neon recording level indicator for each channel. Four input connections, two for each channel radio-phono and high-impedance mike. Same outputs a above. Includes headphones and microphone. Weight 30 lb.
ELECTRONIC TEACHING LABORATORIES 1818 M Street Northwest, Washington 6, D. C.	Electra-Dual MONITOR Binaural Partable Model E-3 \$297.00	50-9,000 cycles ( $\pm 3$ db) at $3\sqrt[3]{4}$ //sec.	Dual parallel track professional language laboratory re corder. Unique "split" amplifier used to minimize controls and simplify operation but preserving the two in dependent record/play channels. Signal-to-noise, 45 db separate heads with azimuth adjustment, volume leve meter, all components mounted 3/8" aluminum panel Weight, 15 lb.
EMC RECORDINGS CORP. 806 E. 7th St., St. Paul 6, Minn.	EMC "Cemmunicator"  Partable Playback Unit \$129.95 (tentative)	60-12,000 cycles at 7 ½"/sec. 80-6,000 cycles at 3 ¾"/sec. (Based an NART8 Curve)	Portable, self-contained playback unit with single-lever tape control. Wow and flutter, 0.25% at 7½"/sec. Signal-to-noise, at least 47 db for 7½"/sec., 42 db for 3¾"/sec. Positive braking minimizes possibility of spilling tape. Capstan is ground to ± .0001" tolerance. Dual track Maico Dynamu 8040 "Ultralinear" head (gapwidth less than .00015"). Three-stage pre-amplifier plus cathode follower and power output stage. Amplifier output: from cathode follower up to 10 volts at 1500 ohms: from enclosed speaker — 3.0 watts at less than 4% harmonic distortion. Amplifier connections: external speaker jack, cathode follower output, power cord receptacle. 5" round Alnico V speaker. Accommodates 7" reel. Weight: 20 pounds.

Manufacturer	Model and Price	Frequency Response	Data
	Telectro- tape Custom 220 \$99.50 (without case)	50-12,000 cycles ( $\pm 3$ db) at 7 $rac{1}{2}$ "/sec.	Basic dual speed recorder (71/2" and 33/4"/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- SONIC CORPORATION 35-18 37th 5t., Long Island City 1, N. Y.	Tologtes true Professional 1999	30-15,000 cycles (±2 db) at 15"/sec. 30-15,000 cycles (±4 db) at 7½"/sec. 30-10,000 cycles (±2 db) at 7½"/sec.	Professional type two-unit, dual-track portable with 15" and 7½" 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, 10½". 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.
	Multi-Channel Data Recorder  Model TR-150-5 (Price on request)	200-20,000 cycles (±3 db) at 15"/sec. 200-40,000 cycles (±3 db) at 30"/sec. 100-80,000 cycles (±3 db) at 60"/sec.	Multi-channel data recorder/reproducer, available in models using up to 14 channels. Consists of 5 separate units for 19" rack mounting. Record, erase and reproduce heads in one plug-in assembly for one and two channel units. Multi-channel units do not have erase heads. Signal-to-noise, 55 db below tape saturation level. Flutter and wow, under 0.1% rms. Three speed hysteresis synchronous motor drive. Rewind time, 1 min. for 2400 ft. Push-button controls for all functions. Monitors from tape while recording. Harmonic distortion, 1% rms at normal level. Input, 100,000 ohms unbalanced. Output, 600 ohms unbalanced. Height, in rack, 52". Weight, 320 lb.
VIKING OF MINNEAPOLIS	Viking 75 Series Tape Decks		Tape Playback and Record-Playback units for custom installation in hi-fi systems. Tape speed, 71/2"/sec with belt change for 33/4"/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.
Ave. 50.,		40-14,000	Viking PB60 playback preamplifier—\$24.50.
Minneapolis 20, Minn.	FF75 Monoural Playback \$59.95 FF75R Monoural Record/Playback 67.45	cycles (±2 db)	Viking RP61 record-playback preamplifier—\$74.50.
Sales Office:	FF75RM Mon. RecMonitar-Playback 76.66	at $7\frac{1}{2}$ "/sec.	Matched Viking RP61-S Stereophonic "Slave Record/- Playback Preamplifier—\$74.50.
2207 Lyndale Ave. Sa., Minneopolis 5,	FF75B 2-Channel, Half-Track Heads, Staggered 69.95 FF755U Universal Sterea Playback		Viking "PRO": Consists of FF75R-LP Deck (Monaural Record/Playback) and RP61 Record/Playback Preamplifier installed in D396 Portable Carrying Case. Total weight 23 lb.—\$174.50.
Minn.	(in-line and staggered heads) 97.65  FF755R Sterea (in-line head) plus Manaural Erase-Record 107.50		D390 Portable Carrying Case for any FF75 Series Deck and one or two PB60's. Weight of case and FF75 deck 18 lb. Case only \$19.95.
V-M CORPORATION Benton Harbar, Michigan	"tape-o-matic" Partable Madel 710 \$189.95	40-15,000 cycles (±5 db)	Records and plays back monaurally. Convertible to stere- ophonic playback. Two speeds, dual tracks, two speakers. External amplifier jack, two-way external speaker jack. Power output, 5 watts. 75 KC record bias and power erase. Better than 45 db signal-to-noise ratio. Less than 0.4% RMS flutter and wow. Push-button controls, pre- cision tape index counter, "recording normal" light, "distort" light, automatic shutoff, balanced tone control, monitor switch, pause button, safety switch, 3-way input receptacle and storage compartment.
	"tape-a-matic" Sterea/Playback Portable  Model 711 \$209.95	at 71/2"/sec.	Portable, two-speed, dual-track recorder equipped to team with any other amplifier-speaker for stereophonic playback. Power output, 5 watts. Less than 0.4% RMS flutter and wow. 75 KC record bias and power erase, better than 45 db signal-to-noise ratio. Two speakers 6" x 9" woofer and 3.5" tweeter. Other features same as for Model 710 above.

Monufacturer	Model and Price	Frequency Response	Dota
REVERE CAMERA COMPANY 230 East 21st 5t. Chicogo 16,	Model T-11 \$284.50	40-16,000 cycles (±3 db) at 7½"/sec.	High fidelity 10½" reel tape recorder for professional use and custom installations. Guaranteed specifications, signal-to-noise, over 50 db, wow and flutter less than 0.2%. Features: One volt cathode follower pre-amplifier output. Monitor amplifier with 2½ watt output. Adjustable 70Kc bias-erase oscillator with indicator. Less than ½ second start and stop. Automatic head demagnetizing. Precision revolution tape counter. Electrical remote with automatic drive roller release.
SOUND- SCRIBER CORPORATION 146 Munson St., New Haven 9, Conn.	SoundScriber 24-hour (2½"/min.) recorder/reproducer Model 5-124 \$650 SoundScriber 12-hour (3¾"/mln.) recorder/reproducer Model F-112 \$650	ample for volce communication	All-purpose, single channel voice and signal recorders capable of recording continuously for up to 24 hours and 12 hours respectively. Electronic recording level in dicator. Signal being recorded may be monitored through external headset. Use special, quick-change reels of 2" wide tape on 1½-mil "Mylar" base, printed with time in minutes, indicating elapsed recording time or exact time of recorded signal. Tape can be bulk erased for immediate re-use. Inputs for telephone, line, microphone. Outputs: speaker/headset. Dimensions: 17" x 11½" x 5¾". Weight, approx. 25 lb.
	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 71/2 and 15" (or 33/4 and 71/2") per sec. Signal-to-noise ratio, over 60 db. Separate record and playback heads and amplifiers with independent monitor amplifier and speaker.
THE STANCIL- HOFFMAN CORP.  921 North Highland Ave., Hollywood 38, Cal.  Madel CRM-15 Multi-Channel Communications Recorder  (Prices on Request)	Synchronous Magnetic Film Recorder	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 lightweight cases for easy portability.  Signal-to-noise: at least 55 db.  Maximum harmonic distortion: 1.5% from full level.  Film capacity: 1000 feet.
	Multi-Channel Communications Recorder	200-7,500 cycles ( $\pm 3$ db) at $7\frac{1}{2}$ //sec.  200-3,500 cycles ( $\pm 3$ db) at $3\frac{3}{4}$ //sec.	Provides up to 15 simultaneous recording channels on 0.7" wide tape. Recording time, up to 4½ hours for 5,000 foot reel. Two units, with automatic sequence control permit continuous, 24-hour recording. Signal-tonoise, 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.
ANDBERG  O East 52nd 5t., New York 22, I. Y.	Tondberg Model 2 (two speed) \$249.50  Model 2F (remote controlled) \$279.50  Model 3 Hi-Fi (three speed) \$349.50	50-4,000 cycles ( $\pm 2$ db) at $1\frac{7}{8}''$ /sec.  40-7,500 cycles ( $\pm 2$ db) at $3\frac{3}{4}''$ /sec.  30-15,000 cycles ( $\pm 2$ db) at $7\frac{1}{2}''$ /sec.	Portable, dual-track recorder and playback unit with extra-heavy flywheel and wow-proof belt drive. Flutter and wow: below 0.1% at 7½"/sec., 0.2% at 3¾"/sec. and 0.25% at 1½"/sec. Signal-to-noise: 60 db at 7½"/sec., 50 db at 3¾" and 1½"/sec. Playback output, 2½ watts, low level and high level. Electronic eye recording level indicator. 5" by 7" speaker. Three-speed unit has built-in program counter dial. Weight, 22 lb. — with transport case, 27 lb.
TELECTRO- SONIC CORPORATION 85-18 37th St., long Island City 1,	Telectro- tope Portable Model 556 \$79.95	flat to about 6500 cycles at 3¾"/sec.	Light-weight, dual-track recorder with 33/4" 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.

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Manufacturer	Model and F	Price	Frequency Response	Data
EMC RECORDINGS CORP. 806 E. 7th St., St. Paul 6, Minn.	(Appearance similar to "Communicator" on Page 6)	EMC Stereophonic Portable Playback Unit \$199.95 (tentative)	40-15,000 cycles (±3 db) at 7½"/sec.	This stereophonic playback unit reproduces half track, full track, stereo colinear (in-line) and stereo staggered tapes. Wow and flutter: less than 0.25%. Signal to noise ratio at least 55 db when measured according to NARTB specs. One Maico Dynamu 8040 "Ultralinear" upper track head. One Maico Dynamu Stereo colinear (in-line) head. (Gaps are less than .00015"). Two three-stage pre-amplifiers plus cathode follower output. One power amplifier. One 5" round 3.05 oz. special low-frequency, low resonance speaker. One 4" round "tweeter" with 1200 cps crossover network. Accommodates 7" reels.
ERCONA CORP. 551 Fifth Ave.,	Portable Installatio  Model 3A/N (3¾-7½ ips) \$379.50 \$399.50  Model 3A/NH (7½-15 ips) \$425.00 \$425.00	(N "A" (2 heads) os) \$195.00 "B" (3 heads) H \$225.00	50-10,000 cycles (±2 db) at 71/2"/sec.  40-15,000 cycles (±2 db) at 15"/sec.	Dual-speed, dual-track recorders for portable or custom installation, manufactured by British Ferrograph Recorder Co., Ltd. of London. Signal to noise ratio, better than 50 db, 200-12,000 cps; 45 db unweighted (including hum). Wow and flutter, less than 0.2% at 7½"/sec. Longterm speed stability, better than 0.5%. Erase and bias frequency, 53,000 cps. Two inputs, for 1 megohm and 0.1 megohm respectively. Output arrangements: 15 ohm elliptical speaker; jacks for extension speakers — 0.75 volts at 0.1 megohm for external amplifier. Output power, 2½ watts into 15 ohms. Weights: Portable, 49¾ lb; Custom, 45 lb; Tape Deck, 18 lb.
551 Fifth Ave., New York 17, N. Y.		E.M.I. Battery Portable \$395.00 Model L2A (3 <sup>3</sup> / <sub>4</sub> ips) Model L2B (7 <sup>1</sup> / <sub>2</sub> ips) Model L2C (1S ips)	50-7,000 cycles (±2 db) at 15"/sec. 50-5,000 cycles (±2 db) at 71/2"/sec. 50-2,500 cycles (±2 db) at 33/4"/sec.	Battery-operated recorder manufactured by Electrical & Musical Industries, Ltd., of England. Accommodates 5" reels and requires no external power source. Signal-to-noise, better than 45 db unweighted, when replayed on high quality studio equipment. Wow, less than 0.2% at 15"/sec., 0.25% at 7½"/sec, and 0.3% at 3¾"/sec. Separate recording and playback heads and amplifiers for monitoring and instantaneous playback. VU meter for recording level. Manually operated geared rewind device to conserve battery life. Operates with cover closed. Weight, 14½ lb. complete.
FAIRCHILD	- 10 CO	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 (7½" and 30" models available). Total noise and distortion -64 db (ref. 2½% 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.
RECORDING EQUIPMENT CORP.  154th 5t. and 7th Ave. Whitestone 57,	SEC. 10	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 application include Facsimile recording, multi-track, and telemetering, with frequency response to 100 KC.
N. Y.	Control Track Ge Model 41	nerator \$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 MANUFAC- TURING AND ENGINEERING CORP. 199-217 Steuben St. Brooklyn 5, N. Y.	3 3 3 3	FME Model 47 \$159.50	50-12,000 cycles at 7 ½"/sec. 50-7,000 cycles at 3 ¾"/sec.	Portable, two-speed, dual track recorder. 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 P.M. speaker. Automatic reversible index counter. Input jack for microphone or radio-phono. Output jack for monitoring while recording or external hi-fi amplifier. Includes ceramic mike and patch cord with built-in resistance network to match recorder. Weight, 27 lb.
FENTON CO.  15 Moore St., New York 4, N. Y.		Fen-Tone Motek Tope Deck Model K7 \$79.50	50-12,000 cycles at 7½"/sec. 50-7,000 cycles at 3¾"/sec.	Three-motor-drive dual-track tape transport mechanism for custom installation. Speed change by conversion pulley. Wow and flutter, less than 0.25%. Adjustment for head azimuth. Positive interlock of all switching and braking mechanisms. Simple push-button control for record, playback, fast forward, rewind and stop. Matched preamplifiers also available. PRO-2, \$89.50. TPR-1 \$39.90.

Monufacturer	Model and	Price	Frequency Response	Dota
RADIO CORPORATION OF AMERICA RCA Victor Division Camden 2, N. J.	Orthopho Intermatched His Recorder - Rep Chassis Type 5R1 \$490.00	gh-Fidelity roducer i i-2	Playback from standard tape, 30-15,000 cycles (±3 db) 40-12,000 cycles (±2 db) Record and playback 40-12,000 cycles (±3 db)	Semi-professional type recorder/reproducer chassis with direct synchronous motor tape drive. Recording speed of 7½" and 3¾"/sec., by selector switch. Electro dy namic tape tension and braking. Signal-to-noise, bette than 50 db with less than 3% distortion. Flutter and wow, less than 0.2%. Fast forward and rewind, 45 sec for 1200 ft., with automatic tape lift. VU meter for recording level indication. Transistor record and play back amplifier with printed wiring. High impedance bridging input and low impedance microphone input Outputs, 0.6 v into 10,000 ohms or more and high impedance monitoring jack. Can be mounted horizontally or vertically. Dimensions: 10½" x 19" x 8½". Weight 35 lbs.
RANGERTONE INC.		"Rongerette" Portable Model A-2 \$1,500.00 complete	45-15,000 cycles (±2 db) at 15"/sec. 50-8,000 cycles (±2 db) at 71/2"/sec.	FOR SYNCHRONOUS SOUND RECORDING  Professional-type, single-track, dual-speed recorders, wit choice of 33/4", 71/2", 15" or 30" per second tape speeds Up to 2 hours recording at 71/2" 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. Rewing the destrophylogography from 0.10 250"/sec. in the control of the 150"/sec.
73 Winthrop St., Newark 4, N. J.	2.73	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 71/2"/sec.	speed controllable continuously from 0 to 250"/sec. is hoth forward and rewind. Meets all N.A.B. adoptes standards. Complete monitoring and mixing facilities VU meter, signal indicator and footage counter calibrate in minutes and seconds. Complete tape editing facilities Also available with positive "sprocketless" synchronization for motion picture and TV applications. Weight of Rangerette — 30 lh.  Kits added to other professional recorders for Synchronous Sound Recording for \$295.00.
REVERE CAMERA COMPANY 230 East 21st St., Chicago 16, III.	Tod Tiles	Model T-700D \$225.00 Model TR-800D (with radio) \$275.00 Model T-700 \$235.00 Model TR-800 (with radio) \$287.50	40-14,500 cycles (±3 db) at 71/2"/sec. 40-7,500 cycles (±3 db) at 33/4"/sec.  80-8,000 cycles (±3 db) at 33/4"/sec.	Portable dual track recorder available in either single of dual speed. Convenient keyboard control, electrical sole noid operated. Signal to noise ratio over 48 db on dual speed machines and 50 db on single. Distortion less tha 0.65% on normal levels. Rewind and fast forward speed 170 ips. Flutter and wow less than 0.3%. Two neon lamp for accurate level setting. Precision revolution indecounter, for instant location of recording. Can be or
	Model T-700 B&M \$245.00 Model TR-800 8&M (with r	th radio) \$297.50	60-15,000 cycles (±3 db) at 7½"/sec.	Table models (as above) in solid blonde oak or so Honduras mahogany. Special pressure relief port for
	Model Tr-10 B&M \$255.00  Model Tr-20 B&M (with radio) \$307.50  Model Tr-1100 \$169.50  Model Tr-1200 (with radio) \$219.50  Model Tr-900 \$199.50  Model Tr-1000 (with radio) \$224.50	85-7,000 cycles (±3 db) at 3 <sup>3</sup> / <sub>4</sub> "/sec. 75-12,000 cycles (±3 db) at 7 <sup>1</sup> / <sub>2</sub> "/sec.	Portable dual track recorder available in either single (33/4 ips.) or dual (33/4 11/2 ips.) speed. Signal-to-nois ratio over 48 db on either machine. Distortion less tha 1% at normal levels. Rewind and fast forward, 170 ip Flutter less than 0.3%. Single knob control automaticall returns to stop when power is turned off. Dual level ind cator. Revolution index counter. Instant stop buttor Two-speed knob can be changed while in any function Rugged fiberglass case. Two speakers. Can be operate as a PA. Weight, 28 lb.	
		85-7,500 cycles (±3 db) ot 3 3/4"/sec.		
		Model T-100 \$169.50 Model TR-200 (with radio) \$224.50	33/4 ips. tape speed. Si	Portable, dual-track recorder available in either 17/8 of 33/4 ips. tape speed. Signal-to-noise ratio, over 45 db a cither creed. Distortion less than 1.50%. Revised and
	0:	Model T-500 \$179.50 Model TR-600 (with radio) \$234.50	100-5,000 cycles (±3 db) at 1%"/sec.	either speed. Distortion, less than 1.5%. Rewind an rapid forward, single knob control, flutter less than 0.3% Two level recording indicator. 5" x 7" Alnico V speake Weight, 25 lb.

Manufacturer	Model and Price	Frequency Response	Data
	Model 5R-27 Complete with A-920 amplifier \$485.00  Madel A-920 Amplifier \$324.00	50-15,000 cycles at 15"/sec. 50-10,000 cycles at 71/2"/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 ouput for headphones. Max. reel size, 8".
PRESTO RECORDING CORPORATION	Model R-11 Recording Mechanism (in carrying case) \$827.00 Chassis Only \$775.00	50-15,000 cycles at 15"/sec. 50-10,000 cycles at 71/2"/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.
P. O. Box 500, Paramus, New Jersey	Model SR-11 Recording Consale \$1,250.00	50-8,000 cycles at 3 3/4"/sec.	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 <sup>3</sup> / <sub>4</sub> "/sec.	Dual-track reproducing mechanism with 3½″ 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 3¾″ 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 10½" reel capacity only.
	The Congressional  Model 7TR2  \$159.95	90-8,000 cycles at 71/2"/sec.	Portable, two speed, dual-track recorders with pus button control. Normal and overload neon recording level indicators. Ceramic microphone with 7-ft. cable for into storage well. Take up to 7" reels. Rewind time 2 min. for 1200 ft. Inputs for microphone and radio phono. Model 7TR2 has 5" x 7" speaker. Model 7TR has Panoramic Speaker System—one 6½" and two 3½ speakers. Also window counter, voice-music switch, a mote control unit and provision for plugging in extern speaker.
RADIO CORPORATION OF AMERICA  RCA Victor Division Camden 2, N. J.	The Judicial Model 7TR3 \$199.95	70-12,000 cycles at 71/2"/sec.	
	The Legislator Model 7TRC1 \$279.95	60-12,000 cycles at 71/2"/sec.	Consists of Model 7TR3 recorder chassis mounted in console type wooden cabinet with Panoramic Speaker System—one 8" speaker and two 3½" speakers.
	"Victrola" Stereatape Players Portable Model 85TP1 \$295.95  Consolette Model 85TP2 \$350.00	70 to 12,000 cycles at 71/2"/sec.	Stereophonic tape playback units in portable and consolette models. Plays both single-track and dual-track tapes. Two matched cases—one with tape mechanism and left channel speaker system, the other with right channel speaker system. Tape player has in-line (stacked heads), and push-button controls for fast forward, rewind, stop and two play buttons—one for stereo and one for conventional tapes. Two-channel amplifier provides 2½ wattoutput for each channel. Each Panoramic Speaker System consists of one 6½ speaker and two 3½ speakers. Consolette model available in mahogany or light oak finish.

Manufacturer	Model and Price	Frequency Response	Data
MAGNECORD INC. 1101 5. Kilbourn Ave. Chicago 24, III.	PT6-S5A Recorder with Case \$365.00 Without Case \$340 Without Case \$240	50-15,000 cycles (±2 db) at 15"/sec. 50-7,500 cycles (±2 db) at 71/2"/sec.	Portable, two-speed, single-track recorder with speed-change switch and hysteresis synchronous drive motor. Signal-to-noise, 50 db unweighted. Flutter; 0.3% at 15"/sec., 0.4% at 7½"/sec. Rewind time, 40 sec. for 1200 ft. with automatic tape lift. Erase and record/play-back heads. VU meter for bias, record and playback level. Monitoring by 5" speaker and phone jack from tape or input. 10 watt power amplifier. Microphone and unbalanced bridging inputs. 4 and 16 ohm power outputs, 600 ohm line output.
	Magnecord \$36-8 Recorder and Preamp. with Case \$395 Without Case 370	50-15,000 cycles (±2 db) at 15"/sec. 50-10,000 cycles (±2 db) at 71/2"/sec.	Single unit recorder and preamplifier for rack or purtable mounting. Two-speed, single-track, with capstan speed change and hysteresis synchronous motor drive. Signal-to-noise, 50 db unweighted. Flutter, 0.3%. Rewind time, 40 sec. for 1200 ft. Erase and record/playback heads. VU meter for record and playback level. Phone jack for monitoring. Microphone and unbalanced bridging inputs. 600 ohm balanced or unbalanced line output.
	Magnecord P60  Recorder/Amp. with case \$765  without case 680  Tape Transport with case \$465 without case 415	40-15,000 cycles ( $\pm 2$ db) at 15"/sec. 40-12,000 cycles ( $\pm 2$ db) at $7\frac{1}{2}$ "/sec.	Rack-mounted or portable full-track recorder with 10½" reel capacity. Direct drive hysteresis synchronous motor. Push-button controls, instantaneous start and stop, fail-safe brakes and tape break control. Signal-to-noise, 55 db unweighted. Flutter; 0.2% at 15"/sec., 0.25% at 7½"/sec. Rewind time, 100 sec. for 2400 ft. Timing accuracy, ±3 sec. in 30 min. Separate erase, record and playback heads. VU meter for bias, record and playback level. Adjustable bias and high-speed cueing control. Microphone and unbalanced bridging inputs. Phone jack for monitoring from tape or input. 600 ohm unbalanced line output.
	Magnecard P63  Recorder/Amp. with case \$839 without case 764  Tape Transport with case \$465 without case 415	50-15,000 cycles (±2 db) at 15"/sec. 50-10,000 cycles (±2 db) at 71/2"/sec.	Tape transport mechanism similar to above, but designed for use with P63-J amplifier instead of P60-C, permitting conversion of existing equipment to new, improved performance standards. Signal-to-noise, 50 db unweighted. Microphone input, 50 to 250 ohms balanced or unbalanced. Unbalanced bridge input. Monitoring by 5" speaker and phone jack from tape or input. Amplifier, 600 ohm balanced line output, 4 or 16 ohm, 10 watt speaker output.
	Magnecord M90 Tape Transport with case \$995 without case 935  Amplifier with case \$390 wlthout case 360  Recorder/Amp. with case \$1375 without cose 1285  Recorder/Amp. and Console Cabinet, \$1450	30-15,000 cycles (±2 db) at 15"/sec. 30-15,000 cycles (±4 db) at 71/2"/sec.	Portable, professional-type two speed recorder/amplifier units, also available in console cabinet mounting. Electrically interlocked push-button controls. Direct-drive hysteresis synchronous motor. Separate erase, record and playback heads—interchangeable assemblies for full track, half-track or instrumentation. Instantaneous start and stop, automatic tape lift. Separate record and playback amplifiers for simultaneous monitoring from tape. High speed cueing control. Signal-to-noise, 58 db unweighted. Flutter: 0.1% at 15"/sec., 0.15% at 7½"/sec. Rewind time, 55 sec. for 2400 ft. VU meter for bias, record and playback level. 50 or 250 ohm balanced or unbalanced microphone input, balanced or unbalanced.
MAGNETIC RECORDERS COMPANY 7120 Melrose Ave. Los Angeles 46, Cal.	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 7½"/sec. tape speed. Can also be adjusted for 3¾"/sec. tape speed. Can be rewound while recording. Single control — off, palvback record. Complete with batteries. microphone, head phone (or speaker) and tape. Standard Model includes provision for headphone plavback only. Deluxe Model includes output amplifier and loudspeaker. Weight, 12 lb. Made in England.

Manufacturer	Madel and Price	Frequency Response	Data
	Synchrotone Dual Model ML-63 \$375	to 10,000 cycles at 7½"/sec.	Two independent channels, each with independent recording-playback facility; simultaneous recording on channel 1 and playback of channel 2; simultaneous playback of channel 1 and channel 2; facilities for listening optionally to channel 1 or channel 2 or to both channels; split-a-word control for instantaneous stop and start of tape without slurring. Record safety interlock. Loudspeaker or headphone listening; two speeds (3¾ and 7½ inches per second); single operation of record, listentiate forward, rewind and stop. Weight: 33 lb.
MAGNETIC RECORDING INDUSTRIES	Synchro-Magneticon Dual Model ML-65 \$225  (in portable case, \$245.50)	to 7,500 cycles at 33/4"/sec.	Two separate channels permitting simultaneous recording on channel 1 and playback of channel 2; simultaneous playback of channel 1 and channel 2; 33/4" per second speed; single control operation for record, listen, fast forward, fast reverse and stop. Fully automatic operation eliminates external record-listen control. Record safety interlock. Weight: 19 lbs. in portable case.
New York 3, N. Y.	Synchro-Magneticon Dual Tape-Disc Recorder-Reproducer Model ML-66, \$275 (in portoble case, \$295)	to 8,000 (tape) to 5,000 (dlsc)	Educational language recorder using standard tape and pre-grooved, reusable magnetic discs. Instant stop-star without slurring. Remote control of magnetic disc. Tape speeds 33/4 or 71/2". Weight: 22 lbs.
-	Voice-Master Magnetic Disc Recorders  Voice-Master Streamliner \$195 Voice-Master Challenger 295 Volce-Master Companion 229	100-5,000 cps 100-5,000 cps 100-7,000 cps	Fully automatic magnetic disc dictating and transcribing machine, recording on pre-grooved, reusable and foldable magnetic discs. Features include semi-automatic or fully automatic controls, automatic error correction, direct disc indexing, instant stop-start, and syllable controlled back spacing (from mike or footcontrol). No record-lister switch. Weight: 8 or 10 lbs.  Semi-automatic dictating-transcribing unit Fully automatic dictating-transcribing unit Fully automatic transcribing unit
MARK SIMPSON MFG. CO. INC. 32-28 49th 5t., Long Island City 3, N. Y.	Voice-Master Ordertaker 155  "MASCO" Model 500 \$168.50	50-12,000 cps  50-12,000 cycles (±3 db) at 7½"/sec.  50-7,000 cycles (±3 db) at 3¾"/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. Include standby and monitor switch, two neon recording level in dicators, safety record-lock button, 5" x 7" oval speaker ceramic microphone and patch cord. Fast forward and rewind, 90 sec. for 1200 ft. Immediate stop from any speed. Inputs for microphone and radio-phono. Output for external speaker and external amplifier. Weight 23 lbs.
MOHAWK BUSINESS MACHINES CORP. Brocklyn 33, N.Y.	Mohawk "Midgetape"  Bottery Operated Portable \$249.50	200-5,000 cycles (±5 db) at 1½"/sec.	Portable, dual-track recorder. Self-contained battery powe supply. Battery life 45 hours. Battery life indicator light Cartridge-loaded (1/2 hour to a side.) Rewind, manual two minutes for 1/2 hour recording. 3 controls: On-Off Play-Record, and Volume. Wow and flutter, less that 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. Accessorie available. Size: 81/2" x 37/8" x 17/8". Weight, 3 lb.
	Mohawk Message Repeater Record-Playback Unit \$159.50 Playback Unit \$79.50	200-5,500 cycles $(\pm 1\frac{1}{2})$ db) at $3\frac{3}{4}$ // sec.	Midget, recorder/playback unit with continuous-loop tape cartridges of from 15 to 240 seconds capacity. Repeate message continuously or intermittently by external switch control. No rewinding necessary. Neon bulb recording level indicator. Built-in 5" speaker. Output, 1.2 watts Plug-in sockets for microphone, external start, externa amplifier or speaker. Overall size, 6½" x 5¾" x 5½" Weight: 5¾ lb.
THE PENTRON CORPORATION 777 South Tripp Avenue, Chicago 24, Ill.	Pentron "Clipper" Model RWN \$139.95	50-9,000 cycles at 71/2"/sec. 50-5,000 cycles at 33/4"/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 71/2"/sec. Power output, 4 watts. Neor bulb recording level indicator. Inputs for microphonand radio-phono. Outputs for auxiliary speaker and amplifier. Microphone included. Also available with single track heads. Weight, 23 lb.

Monufocturer	Model and Price	Frequency	Data
	Pentron "Pacemaker" Model T-90 \$199.95	S0-10,500 cycles at 7½"/sec. 50-5,000 cycles at 3¾"/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 7½" 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.
THE PENTRON CORPORATION	Pentron "Emperor" Model HFW-500 \$299,95	40-12,000 cycles at 71/2"/sec. 40-6,000 cycles at 33/4"/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 net work at 1000 cycles. Power output, 10 watts push-pull Weight, 33 lb.
	Pentron "Encore" Tape Player Model TP-3 \$149.95	50-8,000 cycles at 7½"/sec. 50-5,000 cycles at 3¾"/sec.	Portable two-speed, dual-track tape playback unit with "Unimagic" single-lever control for play, fast forward and rewind. Plays any standard 7½"/sec. and 3¾"/sec recorded tape. Complete with amplifier and speaker Single-track units also available (\$154.95).
777 South Tripp Avenue, Chicago 24, III.	Pentron Stereophonic Tape Player Model PS-1 \$249.95	(as above)	Consists of two-speed tape deck and two preamplifier in consolette wood cabinet. Plays stacked stereo, stag gered stereo, full track or half-track tapes at 7½" or 3½"/sec. Preamps equalized to NARTB standards. Sepa rate volume, tone and master gain controls. "Unimagic' single lever control for play, fast forward and rewind Instantaneous automatic braking. Shipping weight, 33 lb
	Pentron "Dynacord"  Model DM-2 Tape Mechanism \$395.00  Model D5-10 Preamplifier \$130.00  Tape Mechanism Case, \$30.00  Amplifier Case, \$25.00	40-15,000 cycles (±2 db) a: 15"/sec.  40-10,000 cycles (±2 db) at 71/2"/sec.	Professional type. dual-speed recorder for rack or portable mounting. Standard speed, 71/2" and 15"/sec. Also avail able for 33/4" and 71/2" 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-C \$398.75	30-18,000 cycles (±3 db) at 15"/sec. 30-15,000 cycles (±3 db) at 7½"/sec. 30-7,500 cycles (±3 db) at 3¾"/sec.	Portable professional type three-speed recorder. Three motors, including hysteresis synchronous drive motor 4½" VU meter. Push button operation using seven re lays and one solenoid. Three separate heads, permitting instantaneous monitoring from tape while recording A.B. switch permits comparison between original and recorded program. Flutter and wow 0.1%. Mixing chan nels for mike, radio or phono inputs. Full protection against accidental erase. Bass and treble controls with flat response setting. Fast forward and rewind, less that one minute for 2400 ft. Electro dynamic brake action and tape tension, never requires adjustment. D.C. or preamp heaters. Push-pull 12 watts audio output.