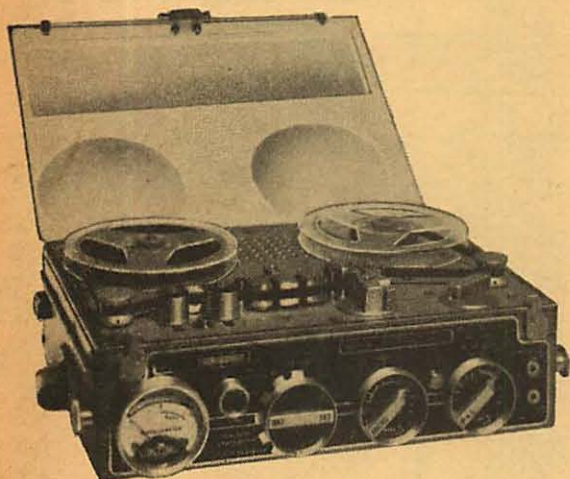


Nagra Tape Recorder, Accessories

NAGRA III PROFESSIONAL TAPE RECORDER

- COMPLETELY SELF-CONTAINED FOR OUTDOOR SOUND RECORDINGS WITH STUDIO QUALITY
- THREE SPEEDS, THREE HEADS, FULL 1/4" TRACK, BUILT-IN AMPLIFIER, SPEAKER AND POWER SUPPLY
- ELECTRONICALLY CONTROLLED DIRECT DRIVE MOTOR FOR EXCELLENT SPEED STABILITY, WITH REMOTE START-STOP AVAILABLE
- COMPLETELY REDESIGNED SOLID STATE ELECTRONICS USING SILICON SEMICONDUCTORS
- REMARKABLY LOW NOISE, WOW, FLUTTER VALUES
- HIGHLY PORTABLE; POWERED BY TWELVE SIZE D FLASHLIGHT CELLS
- PROVISION FOR BUILT-IN PREAMPLIFIER FOR USE WITH SECOND MICROPHONE
- OPERATES FROM COMMERCIAL MAINS WITH OPTIONAL AC POWER SUPPLY ACCESSORY
- SPECIAL NEOPILOT MODEL AVAILABLE FOR "LIP SYNCHRONIZATION" OF SOUND WITH CAMERA IMAGE; PERFECT FOR ON-LOCATION MOTION PICTURE AND TV FILMING



World-famous professional tape recorder extensively used in radio news reporting, motion picture and TV production, automotive research, aviation, ornithology, linguistics research, photo facsimile recording, record production . . . wherever it is important to bring studio-quality sound recording outdoors. The Nagra III's completely self-contained portability, superb speed stability, low wow and flutter values, and host of other features and specifications, result from meticulous study of problems encountered in recording in the field, coupled with use of the most advanced technology and production methods. The recorder functions efficiently in any operating position, and is virtually unaffected by impact, humidity, tropical or polar climates, altitude, salt air and general outdoor use. Operating temperature range is from -20°C to $+50^{\circ}\text{C}$.

Operates on 12 flashlight cells or optional AC power supply. Speed, wow and flutter, signal-to-noise, and response values are within NAB (Ampex) primary standards; has CCIR European standard for overseas usage. Two mixing inputs lend to unit's versatility; has Cannon type XLR-3-42 input socket for 50- or 200-ohm microphone. Dual-scale meter on front panel measures recording and line output level on hi-fi playback, and condition of batteries. At 15 ips, an audible alarm signal sounds in monitoring earphones when battery voltage falls below 11 volts. Accepts 5" reels with cover closed, 7" reels with cover open. Motor is servo controlled.

Since the recorder was designed to be operated under the most unfavorable conditions by non-technical personnel, all controls are positioned for easy manipulation whether the unit is being carried on the shoulder or placed on a table. A wide range of accessories are available to add even greater versatility to the Nagra III recorder; see listing below.

NAGRA III TAPE RECORDER SPECIFICATIONS

Tape Speeds: 15, 7 1/2 and 3 3/4 ips, changed by easily accessible rotary switch. **Reel Size:** 7" dia. max. **Equalization:** Ampex and CCIR. **Frequency Response:** (Recording at level of -20 db): At 15 ips, ± 1 db, 30-18,000 cps (± 1.5 db, 30-16,000 cps). At 7 1/2 ips, ± 1 db, 40-15,000 cps (± 1.5 db, 50-12,000 cps). **Harmonic Distortion:** 2% of 3rd harmonic; 0.5% of 2nd harmonic on record and playback. **Signal-to-Noise Ratio:** At least 70 db on playback at 15 and 7 1/2 ips; mike preamp noise level, about -125 dbm. **Wow and Flutter** (DIN 45507 standard): $\pm 0.08\%$ or $\pm 0.1\%$ min. peak-to-peak at 15 ips; $\pm 0.12\%$ or $\pm 0.15\%$ min. peak-to-peak at 7 1/2 ips. **Absolute Speed Stability:** $\pm 0.1\%$ at 15 and 7 1/2 ips, factory adjusted. **Speed Variation:** $\pm 0.1\%$ or $\pm 0.2\%$ from beginning to end of 7" reel. **Inputs:** 50- or 200-ohm microphone; 100,000-ohm 0.5 to 10-volt line signal and 2,500-ohm 10 mV to 1-volt line signal for bridging. **Output:** Balanced line;

with load not less than 600 ohms, 4.4 volts (± 15 db). Monitoring output unbalanced, with load not less than 50 ohms (0.3 volt). Feeds balanced broadcast lines from normally recorded tape, or may be used as remote pickup amplifier to feed line. **Controls:** Record or Playback Mode Switch; Mike Level; Line Level and Playback combined. **Size:** Case, approx. 12 1/2" w. x 8 3/4" d. x 4 3/4" h.; overall, approx. 14" w. x 9 1/2" d. x 4 1/2" h. **Weight:** Less batteries, 13 lbs. 13 oz.

Nagra III Model NTD Portable Tape Recorder—Self-contained recorder with built-in monitoring amplifier, loudspeaker and power supply. Less batteries, microphone and \$1250.00 accessories. Net Each.

Nagra III Model NTDS Portable Tape Recorder—Same as Model NTD but equipped with Neopilot system for synchronization of sound with camera. Net Each. \$1384.00

TAPE RECORDER ACCESSORIES

Nagra Model ATN AC Power Supply—Permits operating Nagra portable tape recorders from AC mains. For 110 to 250 volts AC, 50 or 60 cps. Net Each. \$46.00

Nagra Model BM Mixer—Compact unit with three additional inputs for 50- to 200-ohm microphones, plus a line input. Has four controls for bass attenuation. Model ATN power supply can be connected to the BM mixer to operate all recorder accessories from AC mains. Net Each. \$138.00

Nagra Model BS-II Microphone Preamplifier—Allows connection of a second 50- to 200-ohm moving coil microphone to the recorder. Net Each. \$62.00

Nagra Model SLO Synchronizer—Equipped with cathode ray tube. For synchronous playback of recordings made with Model NTDS recorder; permits synchronous copy on recorder with perforated tapes. Net Each. \$450.60

Nagra Model SQ Quartz Crystal-Controlled Generator—Net Each. \$181.50

Nagra Model DH Self-Contained Speaker-Amplifier—Consists of a highly efficient speaker, an excellent fidelity Class B amplifier, and 12 size D, 1 1/2-volt flashlight batteries; housed in light alloy case with carrying handle. For monitoring at the level and quality of a small hi-fi installation. Provision for bypassing built-in speaker and connecting amplifier directly to external speaker (3 to 7 ohms). Net Each. \$193.50

Nagra Model SCC Frequency Converter—Net Each. . . \$108.80

Nagra Model ST Leather Microphone Carrying Case—Of soft brown leather, with pocket for microphone and adjustable strap. Net Each. \$26.15

Nagra Model SFT Microphone Case—Similar to Model ST, but with foam rubber padding. Net Each. \$ 33.60

Nagra Model SV Speed Adjuster—Net Each. 45.00

Nagra Model FM-II Frequency Meter—Net Each. 186.55

PLEASE CALL OR WRITE FOR THE LATEST PRICES ON THE FOLLOWING ACCESSORIES FOR THE NAGRA RECORDERS:

Nagra Model MK Cardiod Dynamic Microphone—Norelco D-24E. Quality microphone recommended for use with Nagra recorders. Impedance, either 60 or 200 ohms.

Nagra Model GK Table Stand—Norelco ST-10.

Nagra Model VK Wind Screen—Norelco W-24.

Nagra Model MD General-Purpose Dynamic Microphone—Sennheiser MD-21. Sensitive, robust microphone suitable for sound film recording. Impedance, 200 ohms.

Nagra Model GD Desk Stand—Sennheiser MZT-21.

Nagra Model VD Wind Screen—Sennheiser MZW-21.

Nagra Model EB Earphones—Beyer DT-48.

Nagra Model ES Earphones—Beyer DT-508. Stethoscope type.

NAGRA III RECORDERS WITH NON-STANDARD SPEEDS FROM 1/4 TO 30 IPS, OR WITH FREQUENCY RESPONSE TO 30,000 CPS, AVAILABLE ON SPECIAL ORDER. WRITE FOR INFORMATION AND PRICES.