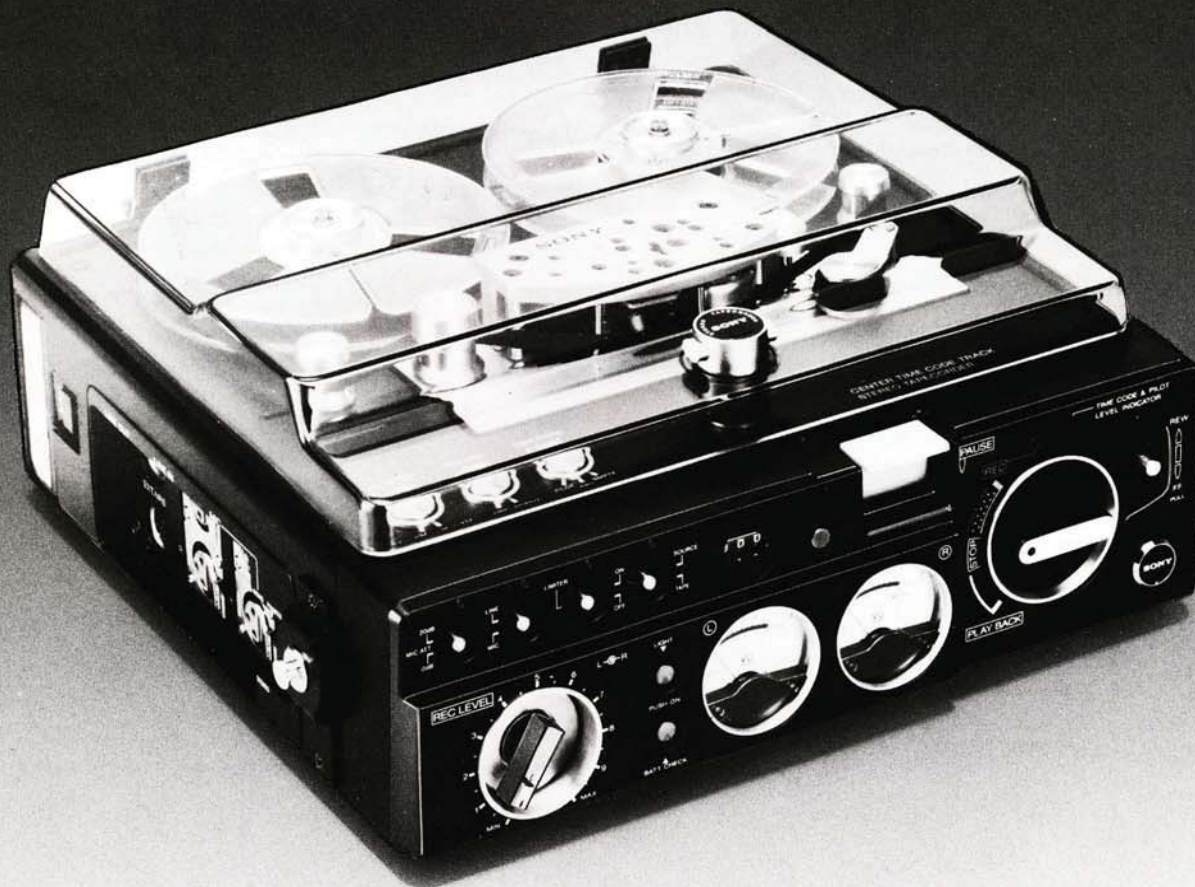


2-Channel Portable Tape Recorder for ENG/EFP/Film Applications **APR-2003**

A compact rugged portable professional open-reel tape recorder designed for location work with features, facilities and performance comparable to larger machines. Based upon the TC-510-2 2-channel portable tape recorder, the APR-2003 has an additional track for recording time code when used with video equipment or pilot tone when used for film sound recording.





Features

- Three heads, two audio tracks (mono/stereo selectable); time code center track for EBU, SMPTE time code or pilot signal
- Two tape speeds—19.05cm/sec and 9.5cm/sec
- Direct drive with quartz lock servo system
- Connection to Dolby type A noise reduction adaptor
- Three-way power sources—Rechargeable battery, AC with external AC adaptor, or car battery
- Balanced XLR connectors for mic, line and time code inputs
- Other built-in functions include:
 - Tape counter
 - Tape type selector
 - Monitor speaker
 - Headphone jack
 - Limiter
 - Mic attenuator
 - VU meters
 - Mic/line input selector
 - Mic external power supply—DC48V/DC12V

Specifications

Tape and reel size:	6.25mm (1/4"), 5" reel
Tape speed:	19.05cm/s (7 1/2 ips) 9.5cm/s (3 3/4 ips)
Audio tracks	
Track width:	2.1mm for each track
Recording level:	200nWb/m at 0dB

Time code track	
Track width:	0.38 ±0.02mm
Recording level:	350nWb/m RMS
Attack time:	65µs
Time code:	1.5Vp-p
Pilot signal recording range:	0.177V—3.54V RMS (0.5Vp-p—10Vp-p)
Time accuracy:	Less than 15msec at 19.05cm/s (for both audio and time code tracks)

Mic inputs:	Cannon XLR type connectors (×2) –70dBs/–50dBs with –20dB attenuation, 10 ohms, balanced, DC 48V/12V external power supply
Line inputs:	Cannon XLR type connectors (×2) +4dBs (–20dBs set by internal wiring), 10k ohms, balanced
Time code input:	Cannon XLR type connector 10k ohms, balanced
Dolby external input:	7P tuchel type connector
Line output:	7P tuchel type connector 600 ohms, unbalanced, 1V (0dB) at 10k ohm load
Crosstalk:	Less than –90dB (between audio and time code tracks)
Frequency response:	19.05cm/s: 30Hz—18kHz ±3dB 30Hz—15kHz ±2dB 9.5cm/s: 30Hz—10kHz ±2dB
Wow and flutter:	19.05cm/s: ±0.08%, 0.05% WRMS (DIN) 9.5cm/s: ±0.12%, 0.08% WRMS (DIN)
Tape speed accuracy:	19.05cm/s: 0.3% 9.5cm/s: 0.3%
Bias frequency:	160kHz
Tape counter:	Mechanical 3-digit
Power requirements:	Rechargeable battery (NP-1) External AC adaptor (AC-500) Car battery (DC 12V)
Battery life:	More than 2 hours
Dimensions:	335(W) × 140(H) × 300(D)mm (13 1/8 × 5 3/8 × 11 11/16")
Weight:	Approx. 6.2kg (with NP-1 battery) Approx. 5.5kg (without NP-1 battery)
Supplied accessories:	Shoulder belt 1 Empty reel (5") 1 Tuchel connector (male, 7P) 1 Reel lock adaptor 2 Instruction manual 1

*Design and specifications subject to change without notice.