

Portable Stereo Tape Recorder

TC-510-2

Sony's Ultimate Portable Stereo Tape Recorder Ideal for Field/Interview/Movie Applications



A new Sony for quality outdoor recording that's almost like having a portable professional studio. The compact TC-510-2 is especially designed for "on-the-go" recording, interviews and natural stereo recording. With DC operation, it works like a professional open-reel stereo tape deck featuring half-track 2-channel REC/PB, 3-head Tape/Source monitoring and other attractive features. Functionally designed to be controlled easily, quickly and accurately, the TC-510-2 is ideal for all outdoor audio applications.

Battery check button-

A DC servo-controlled direct capstan drive motor for greater accuracy

Precise speed regulation, smooth motor rotation, low wow & flutter regardless of battery voltage variation.

Excellent servo is obtained with the adoption of IC.

Direct coupling of Sony's Micro precisely engineered adopt F & F head with FETs in coupl the preamplification input

Low distortion of 0.8%, frequency response of 30 – 27,000Hz (±3dB), S/N ratio of 64dB (All with Sony's

Ferri-chrome tape).

Microphone amplifier DC adopting FETs is directly wide coupled with microphone

for superior S/N ratio and better frequency response especially in low ranges.

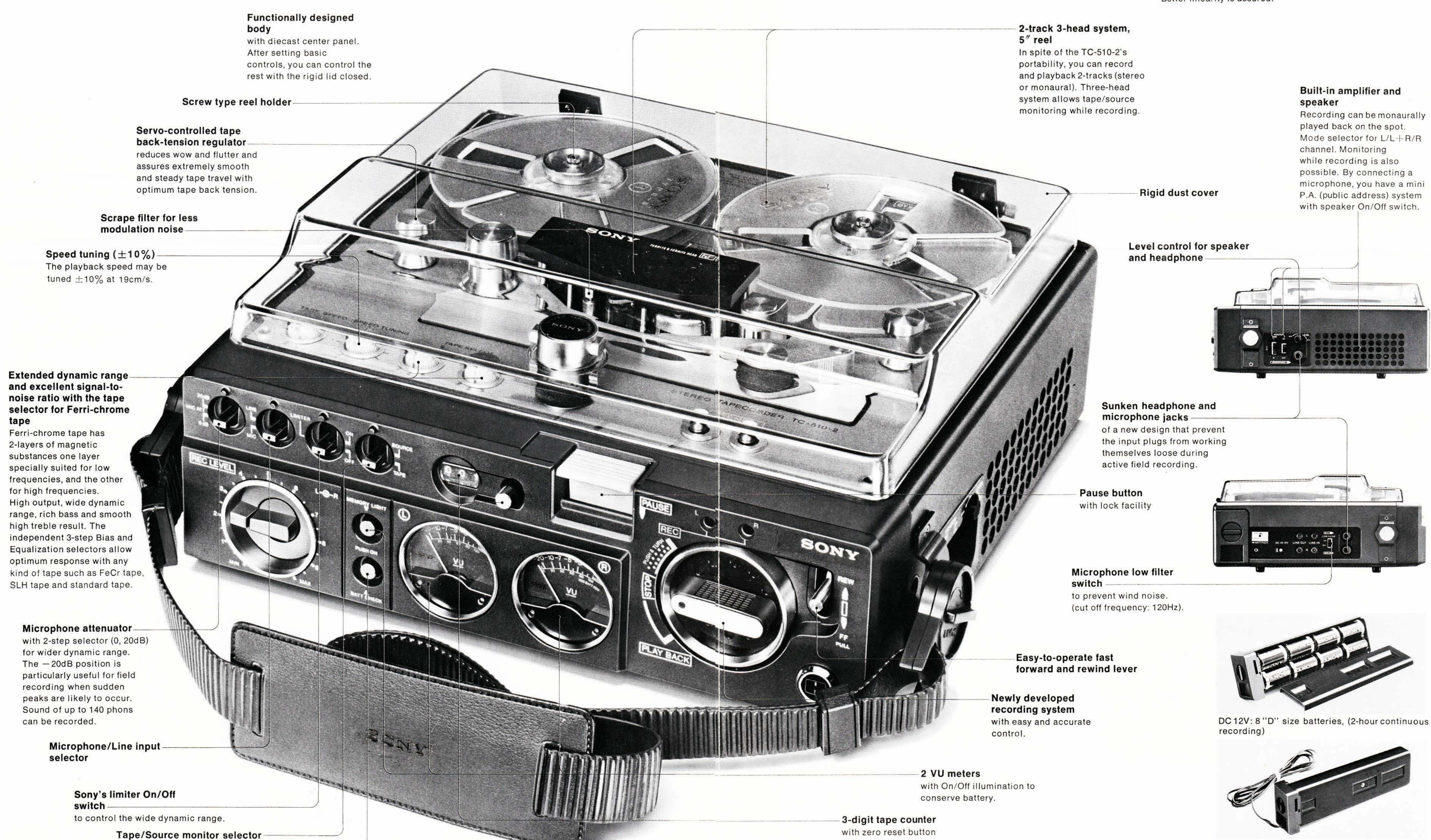
DC voltage converter for wide dynamic range

(DC-DC step-up converter)
For out-of-door use, battery
operation is indispensable.
But 8 "D" size batteries
offer only 12V. This converter
increases the saturation
level of the recording
amplifier (from 12V to ±24V).
Better linearity is assured.

4-way operation

AC 220V with power adaptor AC-26 (optional)

8 "D" size batteries, Sony's rechargeable battery pack BP-55 (optional), AC household current (with optional power adaptor AC-26) and car/boat battery with car battery cord DCC-129. (optional).



Shoulder strap

Specifications

Power requirements: DC 12V: 8"D" size batteries, (2-hour continu-

ous recording)

Rechargeable battery pack BP-55 (optional) (12-hour recharging time with optional AC-26,

3-hour continuous recording)

Car/boat battery with car battery cord DCC-129 (optional)

AC 220V with power adaptor AC-26

(optional)

Recording system: 2-track 2-channel stereo recording and play-

back

2-track monaural recording and playback

Tape speeds:

19cm/s (7½ ips), 9.5cm/s (3¾ ips)

Maximum recording time:

With 275m (900 ft) tape

22 minutes 30 seconds stereo at 19cm/s 45 minutes

monaural at 19cm/s

45 minutes 90 minutes stereo at 9.5cm/s monaural at 9.5cm/s

Fast forward and rewind time:

120 seconds with 275m tape Reel capacity: 5" reel (13cm)

Speaker: $44 \times 94 \text{mm} \phi$

Semiconductors: 4 ICs, 4 FETs, 56 transistors, 19 diodes

Output power: 500mW

Heads: Recording head 1 Ferrite & Ferrite head

Playback head ······1 Ferrite & Ferrite head

Erase head ······1 Ferrite head

Motor:

DC servo-controlled motor

Recording bias frequency: 160kHz

Signal-to-noise ratio: With Ferri-chrome tape 64dB, 60dB (DIN)

With SLH tape

61dB

With standard tape

58dB

Total harmonic distortion:

0.8% (with Ferri-chrome tape)

Frequency response:

With Ferri-chrome tape

19cm/s 20 - 32,000Hz 30 - 27,000Hz ($\pm 3dB$)

30 - 27,000Hz (DIN)

9.5cm/s 20 - 23,000Hz

30 - 18,000Hz (DIN) With SLH tape

19cm/s 20 - 30,000Hz

30 - 25,000Hz (DIN)

With standard tape

19cm/s 20 - 25,000Hz

30 - 20,000Hz (DIN)

Wow and flutter: $19 \text{cm/s} 0.05\% \pm 0.08\%$ (DIN)

 $9.5 \text{cm/s} \ 0.08\% \ \pm 0.12\% \ (DIN)$

Sensitivity 0.2mV(-72dB)

Impedance Accepts low

impedance microphone

Load impedance

Accepts 8-ohm

headphone

more than 10k ohms

0.06V(-22dB)100k ohms

(phono jack \times 2) Output jacks:

Input jacks:

Line

Line

(phono jack × 2)

Microphone

(phone jack \times 2)

Headphone

(binaural jack)

 $333(W) \times 136(H) \times 296mm(D)$ Dimensions:

 $(13\frac{1}{8} \times 5\frac{3}{8} \times 11\frac{3}{4}^{"})$

Output level

0.435V(-5dB)

Weight: 6.8kg (15 lb)

Supplied accessories:

Battery case ······1

5" reel1 Shoulder strap ······1 Connecting cord RK-74 ······2 Head cleaning tips1 set

Recommended optional

accessories:

5" Ferri-chrome tape FeCr-5-275-BL

5" SLH tape SLH-5-275-BL Carrying case LC-30 AC power adaptor AC-26 Car battery cord DCC-129 Rechargeable battery pack BP-55

Parabolic reflector PBR-400 Stereo headphone DR-5A, DR-7, DR-9, DR-11

Plug adaptor PC-2

Electret Condenser Microphone ECM-23,

ECM-270

Microphone mixer MX-510, MX-650

Head demagnetizer HE-2

Design and specifications subject to change without notice.

Wide variety of accessories



Ferri-chrome tape FeCr-5-275-BL



Carrying case LC-30



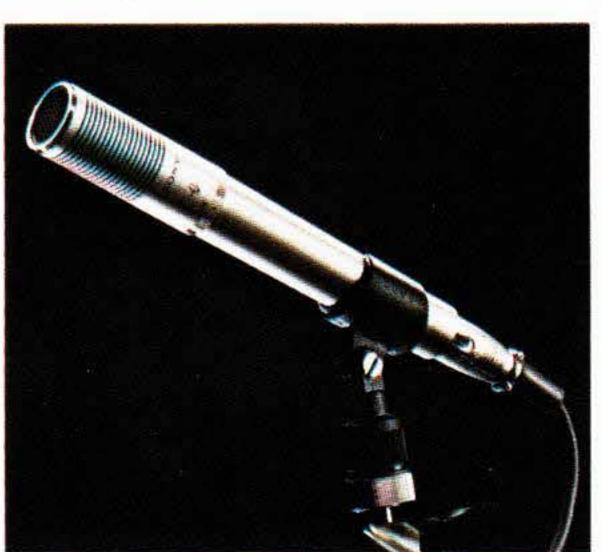
Car battery cord DCC-129



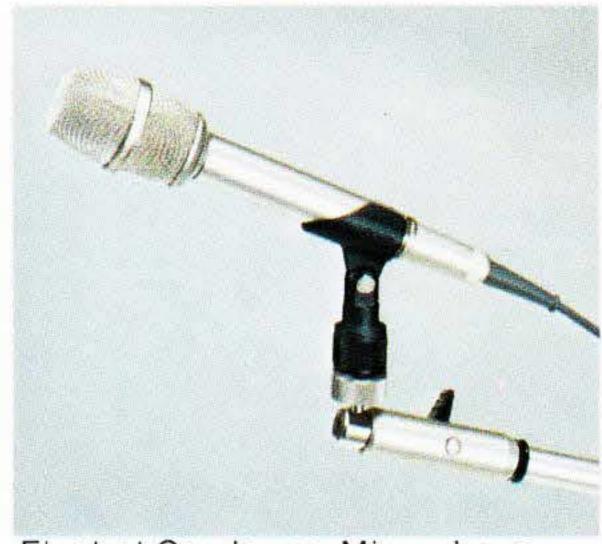
Parabolic reflector PBR-400



Stereo headphone DR-7



Electret Condenser Microphone ECM-23



Electret Condenser Microphone ECM-270



Microphone mixer MX-650