

DTC-55ES/75ES/700

SERVICE MANUAL

US Model

DTC-75ES/700

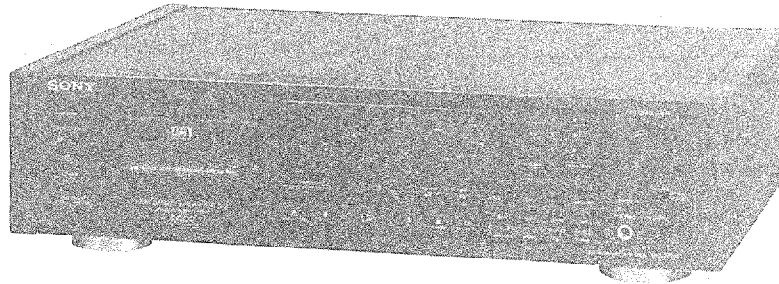
Canadian Model

DTC-75ES

AEP Model

UK Model

DTC-55ES



Model Name Using Similar Mechanism	New Mechanism
Tape Transport Mechanism Type	DTAM-13

SPECIFICATIONS

Tape	Digital audio tape
Recording head	Rotary head
Recording time	Standard: 120 minutes, Long-play mode: 240 minutes (with DT-120)
Tape speed	Standard: 8.15 mm/s, Long-play mode: 4.075 mm/s
Drum rotation	Standard: 2,000 rpm, Long-play mode: 1,000 rpm
Error correction	Double Read Solomon code
Tape	
Track pitch	13.6 μ m (20.4 μ m)
Sampling frequency	48 kHz, 44.1 kHz, 32 kHz
Modulation system	8 - 10 Modulation
Transfer rate	2.46 Mbit/sec.
Number of channel	2 channels, stereo
D/A conversion	Standard: 16-bit linear Long-play mode: 12-bit non-linear
Frequency response	Standard: 2 - 22,000 Hz (± 0.5 dB) Long-play mode: 2 - 14,500 Hz (± 0.5 dB)
Signal to noise ratio	DTC-55ES/700 : Standard : more than 92dB Long-play mode : more than 92dB DTC-75ES : Standard : more than 93dB Long-play mode : more than 92dB

Dynamic range	DTC-55ES/700 Standard : more than 92dB Long-play mode : more than 92dB DTC-75ES : Standard : more than 93dB Long-play mode : more than 92dB
Total harmonic distortion	DTC-55ES : Standard : less than 0.005 % (1kHz) Long-play mode : less than 0.08 % (1kHz) DTC-75ES : Standard : less than 0.004 % (1kHz) Long-play mode : less than 0.08 % (1kHz) DTC-700 : Standard : less than 0.0045 % (1kHz) Long-play mode : less than 0.08 % (1kHz)
Wow and flutter	Below measurable limit (± 0.001 % W.PEAK)
Input	

	Jack type	Impedance	Rated input level
LINE IN	phono jack	47 kohms	-4 dBs
DIGITAL IN	phono jack	75 ohms	0.5 V _{p-p} , 20%
DIGITAL IN	optical jack	—	—

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DIGITAL AUDIO TAPE DECK
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