

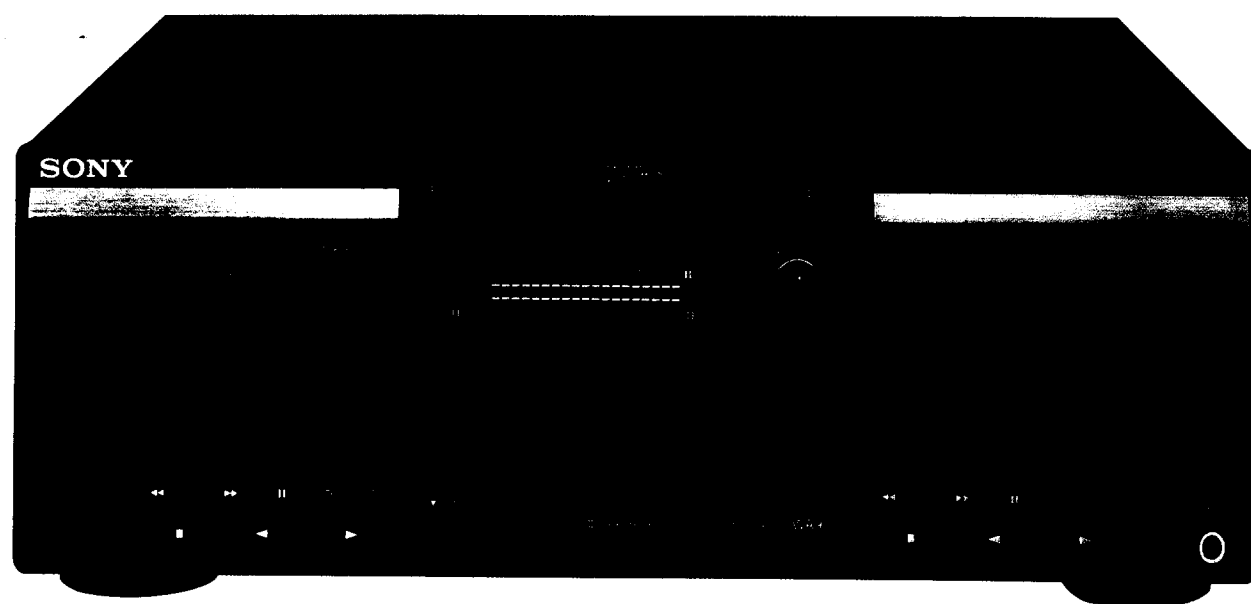
**SONY**

# **TC-WA9ES**

## **DUAL AUTO REVERSE CASSETTE DECK**

FEATURES AND  
SPECIFICATIONS  
SUBJECT TO CHANGE  
WITHOUT NOTICE

- QUICK DUAL AUTO REVERSE; DUAL RECORDING
- DUAL 3-MOTOR TAPE TRANSPORTS
- 160 KHZ SUPER BIAS™ CIRCUITRY
- DOLBY® S-TYPE NOISE REDUCTION
- DUAL DOLBY B AND C NOISE REDUCTION, HX PRO® CIRCUITRY
- SORBOTHANE® CASSETTE STABILIZER
- LASERAMORPHOUS TAPE HEAD



## TC-WA9ES

Faster, more responsive Quick Auto Reverse. The exquisite precision of dual 3-motor tape drive. The crucial benefits of Sony's 160 kHz Super Bias™ circuitry. These are capabilities that separate the Sony TC-WA9ES from the rest. And the direct result is uncompromising sound.

### FEATURES

- **QUICK AUTO REVERSE DECKS** reduce the time required for reverse; let you hear both sides of two cassettes automatically
- **TWO ULTRA-STABLE 3-MOTOR TRANSPORTS** with separate motors for capstan drive, spooling and head base insertion; superbly smooth, consistent performance on Side A and Side B; wow & flutter is a low 0.06% (WRMS)
- **SORBOTHANE® CASSETTE STABILIZERS** reduce the spread of vibration through the cassette shell
- **160 KHZ SUPER BIAS ELECTRONICS** vastly improves the high frequency response of high-speed dubbing; at normal speed, reduces beat frequencies, promotes extended high frequency response (out to 20 kHz with Type IV tape)
- **DUAL DOLBY S-TYPE NOISE REDUCTION** for Deck A and Deck B, reduces noise, distortion, and high-frequency compression; lowers mid-frequency noise by 24 dB; is extremely compatible with car and portable cassette players equipped with Dolby B NR
- **DUAL DOLBY B AND C NOISE REDUCTION**
- **DUAL DOLBY HX PRO HEADROOM EXTENSION** varies bias level for crisper, more impactful highs
- **ANTI-RESONANT ALUMINUM FRONT PANEL** reduces unwanted vibration
- **DUAL RECORDING** on Deck A and Deck B
- **TWIN/SEQUENTIAL RECORDING** lets you record two tapes at once, or record two tapes sequentially, for up to 3 hours continuous recording on two C-90 cassettes
- **HIGH-SPEED DUBBING** for convenient editing of tapes; normal-speed dubbing for higher fidelity
- **DUAL AUTOMATIC RECORD CALIBRATION** adjusts the parameters to match each tape when you record
- **HIGH-DENSITY PERMALLOY HEADS** for high maximum flux density, wide dynamic range
- **CERAMIC CASSETTE HOLDER** resists resonance
- **SWITCHABLE MPX FILTER** for proper Dolby NR tracking when you record off the air

- **RELAY PLAY** of Deck B after Deck A
- **POWER-ASSISTED LOADING** for smoother, more convenient operation
- **RMS TRACK PROGRAMMING** plays songs in any sequence you choose
- **MULTIPLE AMS TRACK SEARCH** lets you automatically skip up to 9 tracks forward or back
- **WIDE-RANGE PITCH CONTROL** adjusts the music to your singing voice or musical instrument
- **16-SEGMENT FLUORESCENT PEAK LEVEL METERS**
- **TWIN ELECTRONIC TAPE COUNTERS** with Counter Memory
- **RECORD LEVEL AND BALANCE CONTROLS** for easy level setting
- **BLANK SKIP**
- **AUTO PLAY**
- **RECORD MUTE**
- **AUTO PAUSE** stops between songs for "karaoke" use
- **TIMER STANDBY** Record and Play
- **HEADPHONE JACK** with level control
- **REMOTE CAPABLE** with compatible Sony Receivers
- **THREE-YEAR LIMITED WARRANTY**; see your Sony ES dealer for details

### SPECIFICATIONS

**FREQUENCY RESPONSE:** Type IV: 25 - 20,000Hz,  $\pm 3$ dB

Type II: 25 - 18,000Hz,  $\pm 3$ dB

Type I: 25 - 16,000Hz,  $\pm 3$ dB

**SIGNAL-TO-NOISE RATIO:** Type IV, Dolby NR off: 59dB

Type II, Dolby NR off: 58dB

Type I, Dolby NR off: 56dB

**TOTAL HARMONIC DISTORTION:** 1.8% at 315Hz

**WOW AND FLUTTER:** 0.06% WRMS

**INPUT SENSITIVITY AND IMPEDANCE:** 0.16V, 47kohms

**OUTPUT LEVEL AND IMPEDANCE:** Line: 0.5V, 47kohms

Headphone: 0 - 3mW; 32 ohms

**POWER CONSUMPTION:** 30W

**DIMENSIONS (WHD):** 17" x 5 $\frac{3}{8}$ " x 13 $\frac{3}{4}$ "

**WEIGHT:** 14 lbs 5 oz

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# SONY

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