

AKAI®

STEREO TAPE DECK 4000DB

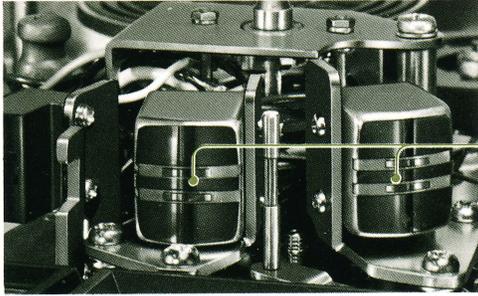
4000DB STEREO TAPE DECK

The new 4000DB is an attractively designed compact tape deck offering multiple connections and controls and quality features among which are Akai's one-micron gap heads for high density recording and the well known Dolby Noise Reduction System.



QUALITY RECORDING AND PLAYBACK WITH A COMPACT AND COMPLETELY PORTABLE TAPE RECORDER

INSIDE STORY



QUALITY RECORDING WITH AKAI'S ONE MICRON GAP HEAD

Akai's one-micron gap head is responsible for an amazingly important difference in tape recording. It's the difference between ordinary performance and high density quality recording and playback. Ordinary head gaps are from 2 to 4 microns, but the gap of this outstanding head is only one micron. This high density recording system provides excellent frequency response and clear, high pitched sound is generated as a frequency tone and recorded smoothly without distortion.

DOLBY NOISE REDUCTION SYSTEM BANISHES TAPE HISS

With the Dolby Noise Reduction System, hissing noise heretofore thought impossible to eliminate, is reduced to a completely inaudible level. Basically, this circuit boosts the low level signals prior to recording and lowers them by precisely that same amount at playback time. During this revolutionary process, the extraneous noise is eliminated, thus also eliminating tape hiss.

DUAL MONITORING FOR A MORE PROFESSIONAL RECORDING

A Tape Monitor Switch and three heads facilitate instant comparison of the recording being made with source signals. Easy confirmation of recording quality results in a more professional recording. The 4000DB is also equipped with a front panel headphone jack for monitoring or private headphone listening.

SOUND-ON-SOUND RECORDING

Sound-On-Sound is the accumulation of as many



individual recordings on a single track as is desired. For instance, record on track 1 and rewind tape. While monitoring the first recording through headphones, record on track 3. Both recordings will merge on track 3. Repeat as many times as is desired by switching Track Selector positions. Convenient for fun or professional use.

SOUND-WITH-SOUND

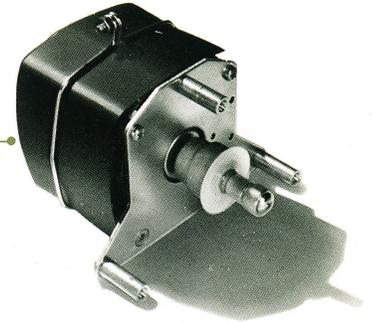
Record on one track, then rewind tape and record on another track while listening to first recording through headphones. Playback and compare! Especially convenient for repetition and comparison exercises such as when studying a foreign language, etc.

SOUND MIXING FROM SEPARATE SOURCES

Independent line and microphone recording level controls and input jacks enable signals from microphone and line sources to be blended and recorded simultaneously. Record your own vocal style accompanied by your favorite orchestra, etc. Interesting and entertaining.

AUTOMATIC SHUT-OFF SAFETY FEATURE

Threading the tape through the Automatic Shut-



Off Lever and setting the Power Switch to Shut-Off position is all that is necessary to effect Automatic Shut-Off at the end of the tape. A convenient safety feature should the unit be left unattended.

PAUSE CONTROL FOR EASY TAPE EDITING

Momentarily stops tape travel during recording or playback. Pause control is especially useful when editing tapes. Simply lift Pause Lever when a certain portion of the program is not desired. Easy Start Button release.

EXPANDED SCALE VU METERS

Internally illuminated expanded scale VU Meters provide quick and accurate determination of recording and playback levels.

STURDY MECHANISM AND EFFICIENT INDUCTION MOTOR

In keeping with Akai's top quality parts utilization policy, the 4000DB also features robust construction and sturdy mechanism. Further, a highly efficient induction type motor assures stable tape travel and ideal starting torque. The characteristics of this motor coupled with a boldly designed flywheel reduces wow and flutter significantly.

STANDARD ACCESSORIES

- Pin plug cord 1
- Spare fuse 1 set
- Operator's manual 1

TECHNICAL DATA

Track System: 4 track 2-channel Stereo Monaural system **Reel Capacity:** Up to 7" reel **Tape Speed:** 7-1/2 and 3-3/4ips ($\pm 2\%$) **Wow & Flutter:** Less than 0.15% at 7-1/2ips, Less than 0.2% at 3-3/4ips **Frequency Response:** 30Hz to 23,000Hz ($\pm 3\text{dB}$) at 7-1/2ips, 30Hz to 16,000Hz ($\pm 3\text{dB}$) at 3-3/4ips **Distortion:** Less than 1.0% (1,000Hz "0" VU) **Signal to Noise Ratio:** Better than 55dB (with Dolby Process: 60dB at 5kHz) **Erase Ratio:** Better than 70dB **Cross-Talk:** Better than 65dB (monaural), Better than 40dB (stereo) **Bias Frequency:** 105kHz **Heads:** (3) One-micron gap Recording Head, One-micron gap Playback Head, Erase Head, **Motors:** (1) 4-pole induction

* Specifications were determined with Scotch #211 (low noise) tape.

motor **Fast Forward & Rewind Time:** 120/150 sec. using a 1,200ft. Tape at 60/50Hz. **Output Jacks:** Line (2): 0.775V ("0" VU) (Required load impedance: more than 20k Ω), Phone (1): 30mV/8 Ω **Input Jacks:** Microphone (2): 0.4mV/4.7k Ω , Line (2): 70mV Din Jack: 0.5V/75mV (High), 2.5mV (Low) **Semi-Conductors:** Transistors: 27, FET: 2, IC: 4, Diodes: 17 **Power Requirements:** 120V A.C., 60Hz **Power Consumption:** 35W **Dimensions:** 406(W) x 325(H) x 196(D)mm (16.0 x 12.8 x 7.7") **Weight:** 12.0kg (26.4 lbs)

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* For improvement purposes, specifications and design are subject to change without notice.

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