SPECIFICATIONS

MODEL NUMBER: Akai Model M-7, portable 4-track

stereo tape recorder.

WEIGHT (NET

IN CARTON): 47.3 lbs. (21.5 kg.) for M-7

2.4 lbs. (1.1 kg.) for all accessories

supplied.

: 20"H×13"W×9"D, overall, case clo-**DIMENSIONS**

sed. (510H×340W×226D in m/m)

POWER

REQUIREMENTS: A.C. 100, 110, 117, 200, 220, 230

or 245 volts interchangeable. 50-60

cycles.

POWER

CONSUMPTION: 100 VA.

RECORDING

SYSTEM: Specific "cross-field" recording based

on the theory of trailless recording bias system. Inline 4 track stereo and 4-track monaural recording.

PLAYBACK

SYSTEM: Inline 4-track stereo, monaural and

2-track stereo playback. Playback of monaural double-track and full-

track recordings also possible.

: Three speeds; 7½" (19 cm.), 3-34" TAPE SPEED

(9.5 cm.) and $1-\frac{7}{8}$ " (4.75 cm.) per

second.

TAPE SPEED

DEVIATION: Less than ± 3 per cent at all tape

speeds.

WOW AND

: Less than 0.15% R.M.S. at 7-1/2 ips. FLUTTER

Less than 0.25% R.M.S. at 3-34 ips.

Less than 0.35% R.M.S. at 1-1/8 ips.

FAST FORWARD AND REWIND

TIME: 90 seconds for 1,200 ft. tape at 50

cycles and 75 seconds at 60 cycles.

FREOUENCY

RESPONSE: 40 to 23,000 cps. at 7-1/2 ips ±3 db;

40 to 20,000 cps. at $3-\frac{3}{4}$ ips ± 3 db; 40 to 10,000 cps. at $1-\frac{1}{8}$ ips ± 4 db.

: Within 3 per cent T.H.D. at all DISTORTION

speeds.

SIGNAL-TO-

NOISE RATIO: 40 db below recorded level signal

at all speeds.

: Within 53 db between each track. CROSS TALK

CHANNEL

SEPARATION: Better than 60 db at 1,000 CPS 3 VU.

POWER INPUT

LEVELS: Microphone input level

-55 db (VR, max) at 1,000 cps.

Phono and radio input level

-15 db (VR. max) at 1,000 cps.

POWER

: Head output, 1 mv. at 1,000 cps. OUTPUT

Pre-Amplifier output, 0.8 V at 1,000

cps, impedance 10,000 ohms Main output, 34 dbm. up

(in 600 ohms).

INSULATION

RESISTANCE: More than 10 MEG ohms

INSULATION

YIELD

STRENGTH: More than one minute at A.C.

1.000 V with Headphone

MONITORING

SYSTEM: (8 ohms) during recording.

: Hysteresis synchronous, two-speed. MOTOR

motor. Capacitor start.

1/100 HP. Power ratio, 70 per cent.

3,000 to 1,500 rpm at 50 cps, 3.600 to 1.800 rpm at 60 cps.

: Inline four-track stereo/monaural re-**HEADS**

cord-play head;

Impedance...5,000 ohms at 1,000 cps. Four-track, cross-field bias head; Impedance...14,000 ohms at 60 kc.

Four-track erase head;

Impedance...18,000 ohms at 60 kc.

MICROPHONE

: Square-shaped, dynamic microphon-USED

Impedance...50,000 ohms

Sensitivity...55 db.

Frequency Response...70 to 15,000

 $cps \pm 10 db$.

SELF-CONTAINED

SPEAKER: $5 \times 7^*$ (12 × 18 cm.), oval-shaped,

dynamic speaker;

Impedance ... 8 ohms Allowable Input...6 watts Frequency Response ... 80 to

 $12,000 \text{ cps}, \pm 10 \text{ db}.$

: 6267 (EF86) × 2, (12AD7) × 2, TUBES USED

 $6BQ5 \times 2$, $6X4 \times 2$, $6AR5 \times 1$.

: Up to 7" reel REELS USED

RECORDING

LEVEL

INDICATOR: Horizontal, A-model VU meter