

INSTRUCTION MANUAL



AP1

AP3

AC1

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TELEX : 32562. A/B & CABLES : LECSON.

AST LIVES

7. SPECIFICATIONS

All specifications are for 120/240V input 50Hz after two minutes.

AC1

Inputs

Input	Sensitivity for 0.5V o/p	Input Impedance	Overload capacity	S/N (short circuit)
PU1 PU2	2.5mV for 1 cm/sec at 1kHz	47k Ω	50dB	70dB CCIR
RAD AUX 1 AUX 2	125mV	68k Ω *	25dB	80dB CCIR

*Input impedance of AUX 2 on tape monitor is 10k Ω .

At no time must the input voltage exceed 10V rms or +14V peak with respect to ground, or damage will result.

Outputs

500mV rms to power amplifier (May be adjusted internally to 1.2V rms)
100mV rms to recorder (RAD, AUX1 and AUX2)
100mV rms to recorder (PU1 and 2 at 4 cm/sec, i.e. 10mV i/p)

Response

RIAA within 1dB (PU1 and 2)
flat +0.5dB 30Hz - 20kHz (RAD, AUX1 and 2)
+3dB 10Hz - 32kHz (controls out)
+3dB 10Hz - 40kHz (cancel)

(2W max. to headphones from power amplifier)

Tone controls

+12dB at 100Hz
+8dB at 10kHz

Filters

High F Bessel characteristic
-3dB at 5, 8 and 13kHz + 10%
ultimate slope 18dB/octave.
Low F Bessel characteristic
-3dB at 35Hz slope ultimately 12dB/octave.

Crosstalk

Typically better than 60dB
Record/replay better than 60dB
(Depends on input source impedances).

Total harmonic distortion (excluding noise)

At 1kHz at all times less than 0.5%. Typically less than 0.02%.
Controls flat at rated input and output less than 0.1%
30kHz - 20kHz and typically less than 0.05%.
No transient distortion effects. Index 0.1.

Hum

Better than -70dB CCIR

Four channel facility for matrix decoding or synthesising.

Remote control facility for remote input selection and volume adjustment.

Tape monitor available on AUX 2.

Power 100-130/200-260V 50/60Hz 3VA.

AP1/APIX/AP3

Input: 500mV for 35 watts (AP1)
400mV for 70 watts (APIX), 1kHz into 8 Ohms.
500mV for 100 watts (AP3).

Output: Directly coupled to loudspeaker.

Minimum outputs AP1 50w/ch, APIX 75w/ch,
AP3 100w/ch (8 Ohm Load).
Typical outputs AP1 60w/ch, AP3 140w/ch.

Distortion: THD into 8 Ohm load is less than 0.05% at rated
power 20Hz to 10kHz. Typically 0.005% 1kHz.

Noise: Better than 90dB below maximum output.

Protection: All models have electrical and over-temperature
protection. In addition, the APIX and AP 3 have
DC-offset loudspeaker protection. AP3 has tempera-
ture switched cooling fan. All models have delayed
switch-on speaker relays.

Open Loop Response: AP1 -3dB at 17kHz.
APIX and AP3 -3dB at 25kHz.

Dimensions: AP1 280mm high x 145mm diameter.
APIX and AP 3 358mm high x 145mm diameter.

Transient Distortion: Not measurable for applied signals up to 20kHz.

Input Impedance: 10k Ohm (nominal).

Output Impedance: 0.2 Ohm.

Mains Supply: 100-130V or 200-260V 50/60Hz.