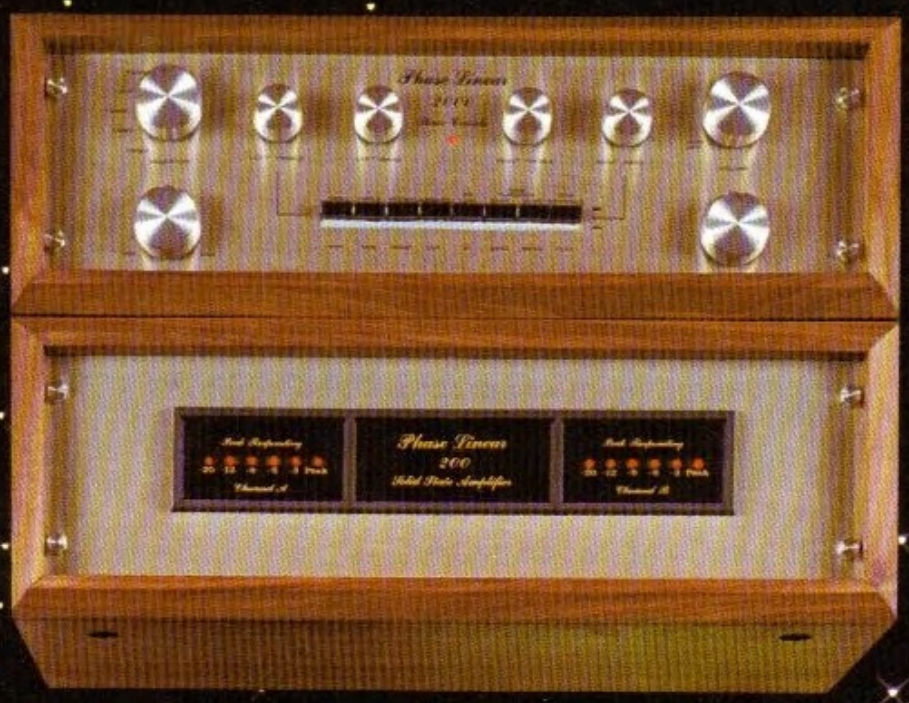
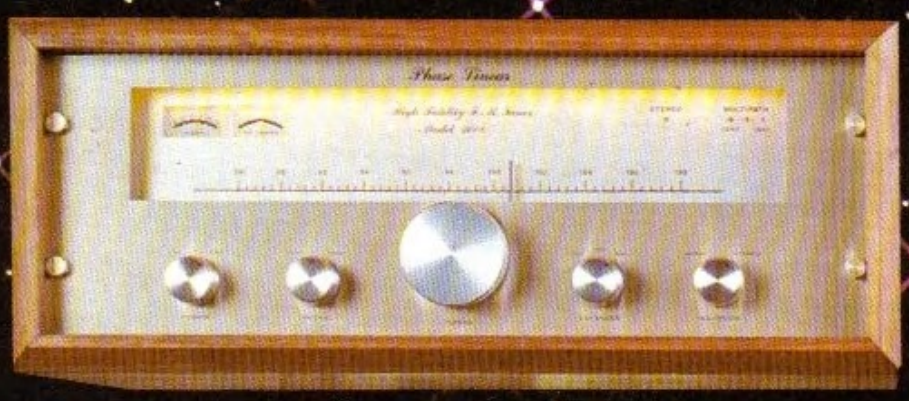
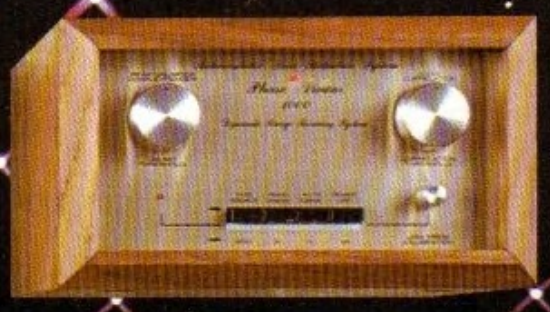
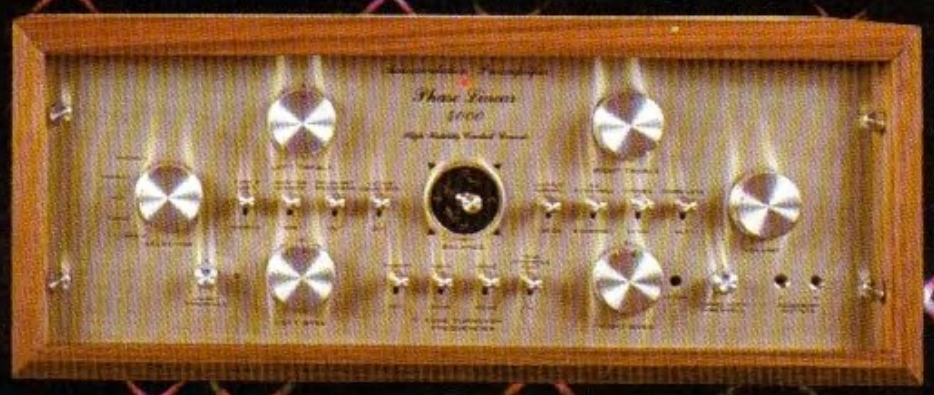
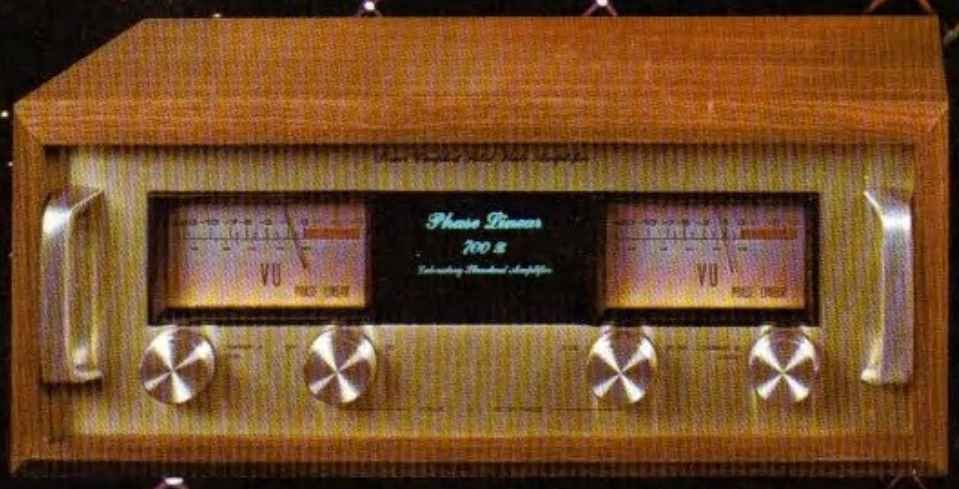
Phase Linear

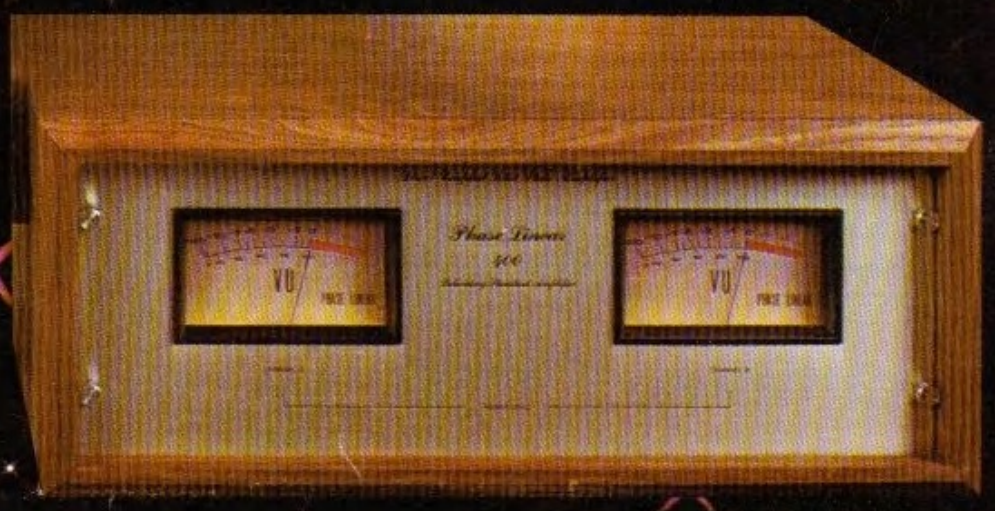




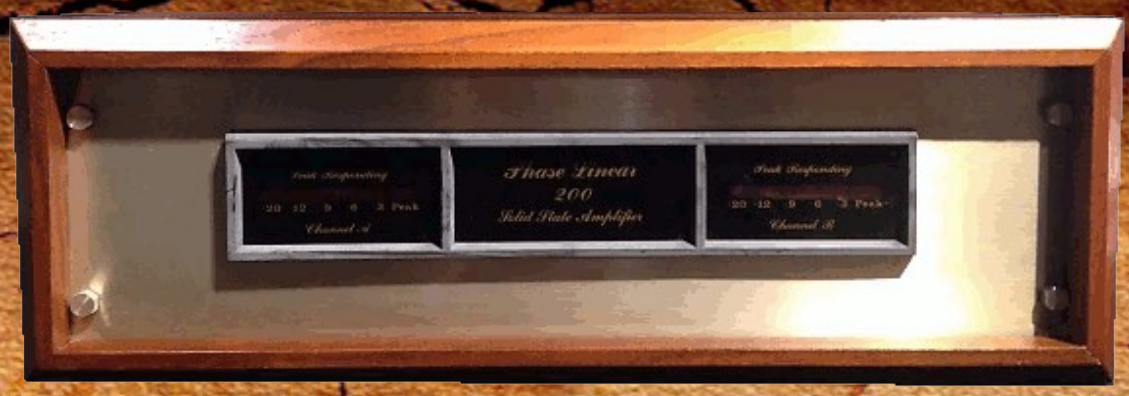








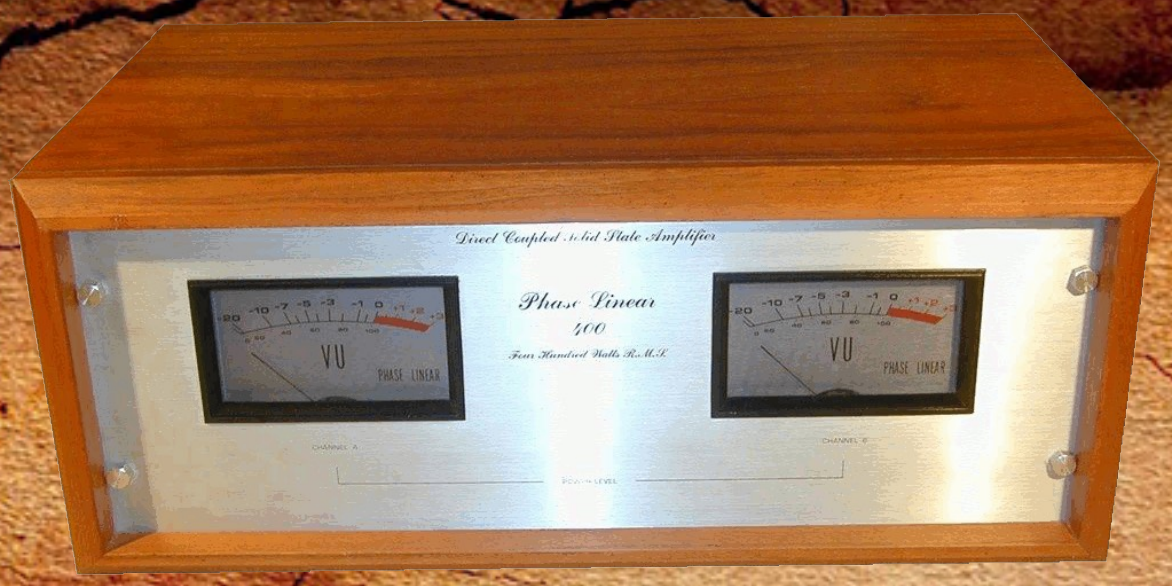
Phase Linear 2000 Preamplifier • Phase Linear 200 Power Amplifier • Phase Linear 5000 Tuner • Phase Linear 1000 Noise Reduction System • Phase Linear 4000 Preamplifier • Phase Linear 700B Power Amplifier • Phase Linear 400 Power Amplifier • Phase Linear Corporation, Lynnwood, Washington, U.S.A.



Phase Linear Model 200

Specifications

Power: 105 watts per channel, minimum RMS at 8Ωfrom 20 Hz to 20 kHz with no more than 0.25% THD
Hum and Noise: At least 95 dB below rated power
Damping Ratio: 100 : 1
Rise Time: less than 1,7 microseconds
Phase Shift: lagging 12 degrees at 20 kHz
Sensitivity: 1,5 Volts for rated power output
Input Impedance: 18 kohms
Protection: Current limiting amplifier protection (output relay electronically operated for speaker protection)
Dimensions: 19" x 5½" x 8¾" (W x H x D)
Weight: 16 pounds



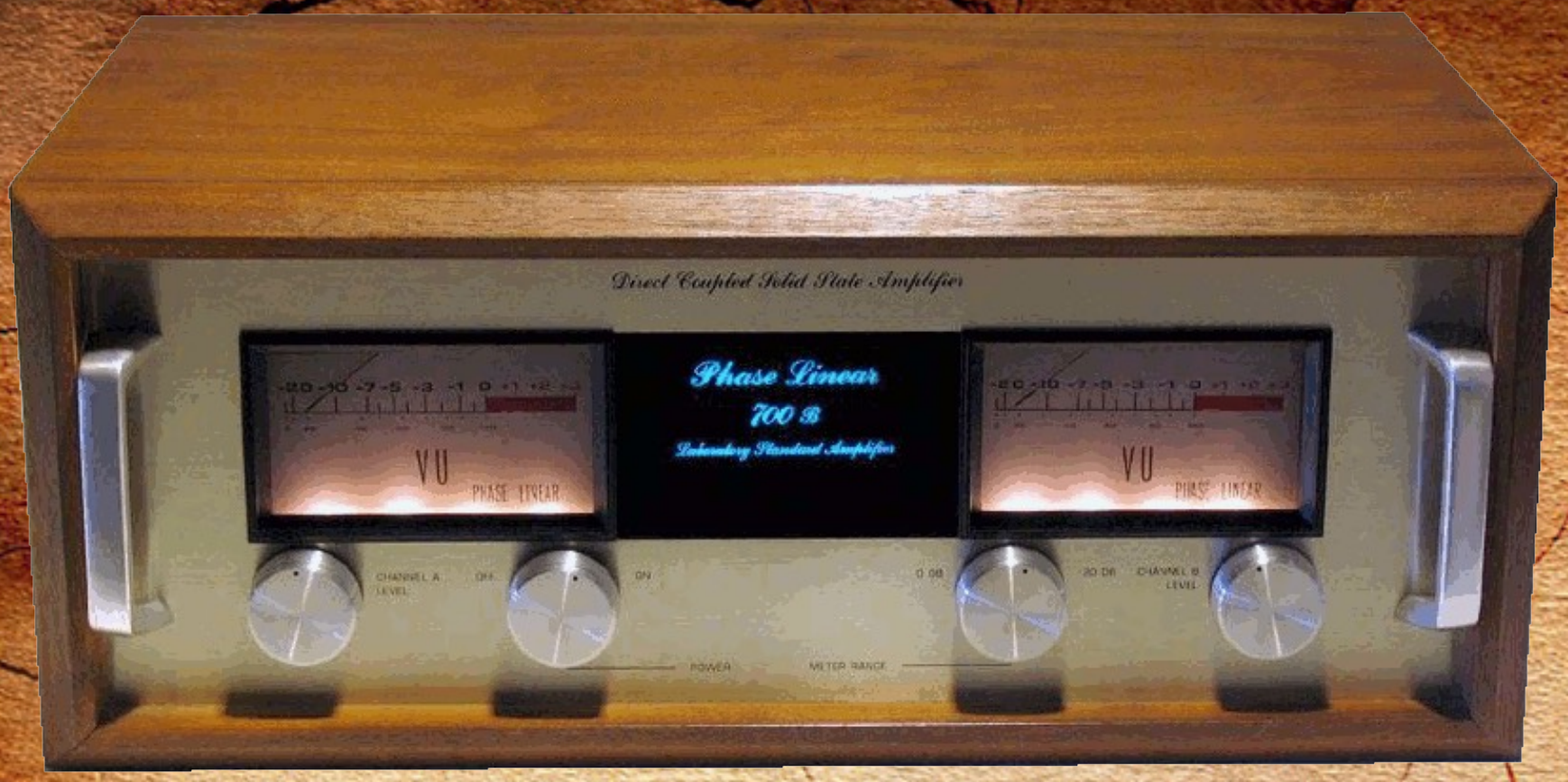
Phase Linear Model 400

Specifications

Solid State / Tubed Solid State
Power 201 Watts / Channel @ 8 Ω**(1)**
Power at Clipping 250 Watts / Channel @ 8 Ω**(3)**
400 Watts / Channel @ 4 Ω**(3)**
125 Watts / Channel @ 16 Ω**(3)**
Recommended Load Impedance 4 Ω - 16 Ω**(5)**
Frequency Response 20 Hz - 20 kHz**(1)**
0 Hz - 0.25 MHz @ 1 Watt**(3)**
Power Bandwidth 5 Hz - 40 kHz**(2)**
Rise Time Less than 1.7 microseconds**(1)**
Phase Shift Lagging 12° at 20 kHz**(1)**
Total Harmonic Distortion No more than 0.25 %**(1)**
Intermodulation Distortion 0.05 %**(2)**
Sensitivity 1.7 Volts**(1)**
1.75 Volts**(2)**
Input Impedance PL400C: 47k Ω**(1)**
PL14A: 10k Ω**(1)**
PL14B: 39k Ω**(1)**
Hum and Noise At least 100 dB below rated power**(1)**
Damping Factor 1000:1 @ 20 Hz**(1)**
Dimensions (W x D x H) 19 x 10 x 7 in.**(3)**
[48.26 8 x 25.4 x 17.78 cm]
Weight 35 lbs.**(2)**
[15.89 kg]
Price USD $499.00**(3)**
CAD $779.00**(2)**
Walnut Cabinet: USD $37.00**(5)**
Miscellaneous No power switch- always on when plugged in**(4)**
Walnut cabinet available**(5)**

References:

1. Source: Phase Linear 400 Amplifier Service Information for Serial Numbers 000-000 thru 743-300 - June 1976
2.Source: 'electron' 1974 Canadian Hi-Fi Buyer's Catalogue - December 1973
3.Source: 'Stereo Directory & Buying Guide 1973' Ziff-Davis Publishing Company - c. 1972
4.Source: Webmaster's (http://www.dnaelectronics.ca) personal observations
5.Source: 'Stereo Review' Stereo Directory & Buying Guide 1976 - c. 1975



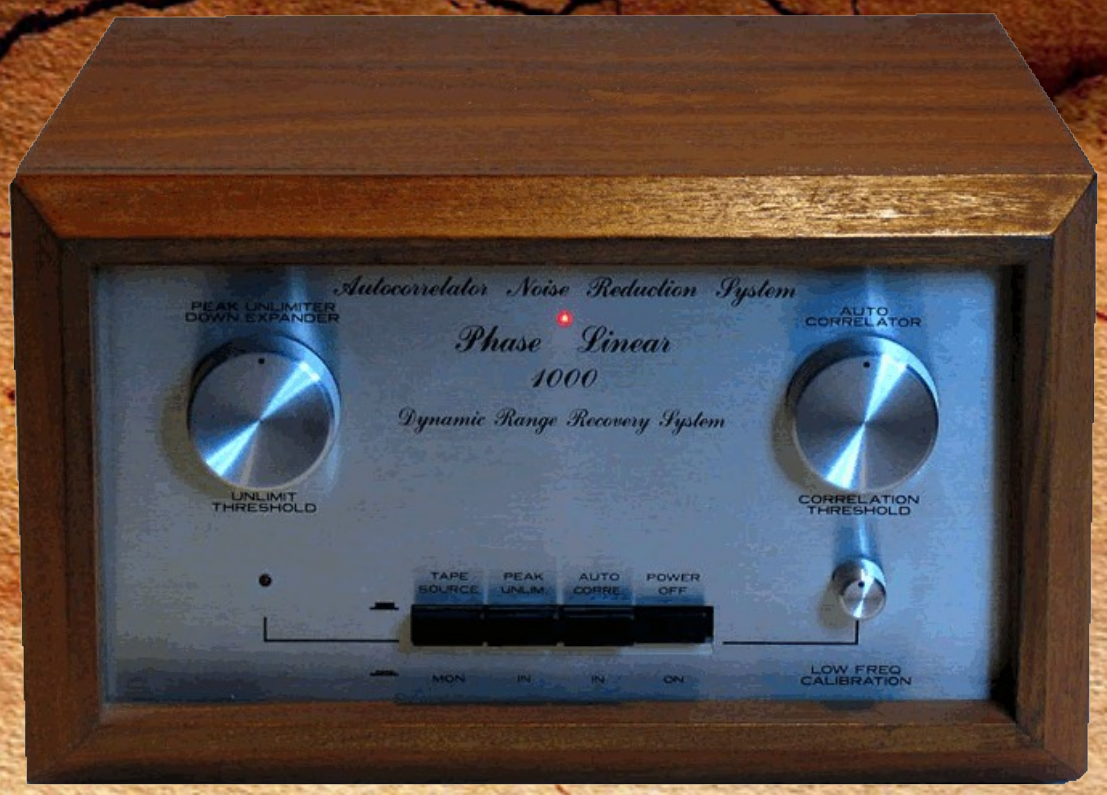
Phase Linear Model 700B

Specifications

Solid State / Tubed Solid State
Power 345 Watts / Channel @ 8 Ω**(1)**
Recommended Load Impedance 4 Ω - 16 Ω**(2)**
Frequency Response 5 Hz - 25 kHz @ 1 Watt**(1)**
Phase Shift Lagging 10° at 20 kHz**(2)**
Total Harmonic Distortion 0.25 % **(1)**
Intermodulation Distortion 0.25 %**(1)**
Hum and Noise 100 dB below rated power**(2)**
Sensitivity 1.14 Volts**(2)**
Damping Factor 1000**(1)**
Dimensions (W x D x H) 19 x 10 x 7 in**.(1)**
[48.26 x 25.4 x 17.78 cm]
Weight 45 lbs.**(1)**
[20.43 kg]
Price USD $799.00**(2)**
CAD $1350.00**(1)**
Walnut cabinet USD $37.00**(2)**

References:

1.Source: 'Audio Scene Canada' 1976 Canadian Hi-Fi Buyer's Catalogue - December 1975
2.Source: 'Stereo Review' Stereo Directory & Buying Guide 1976 - c. 1975



Phase Linear Model 1000

Description

The Phase Linear 1000 is a dynamic range recovery system.

Recording studios and record processing companies employ a number of necessarily evil techniques brought about by the state of the recording art.

Taken together, these techniques may be described as processes which serve to limit and restrict the dynamic range of recorded material.

Unfortunately, their use is necessary in order to put the tremendous range of live music onto the surface of modern phonograph discs and tapes.

When used properly, the Phase Linear 1000 will significantly correct these shortcomings inherent in the recording process.

Specifications

Series one

Channels: 2

Input sensitivity: 3V (max)

Output level: 8V (max)

S/N improvement: 10dB

Frequency response: 20Hz to 20kHz

Total harmonic distortion: 0.25%

Semiconductors: 28 x transistors, 8 x IC, 91 x diodes

Dimensions: 9-1/2 x 5 x 11-4/5 inches

Weight: 6lbs

Series Two

Channels: 2

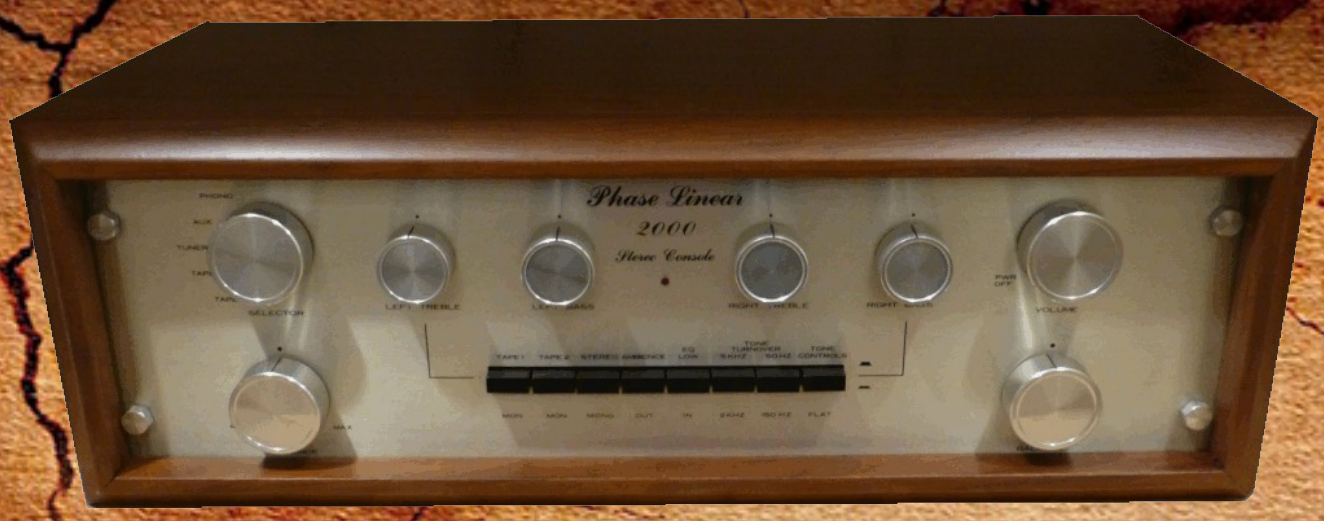
Input sensitivity: 250mV

S/N improvement: 10dB

Frequency response: 20Hz to 20kHz

Total harmonic distortion: 0.09%

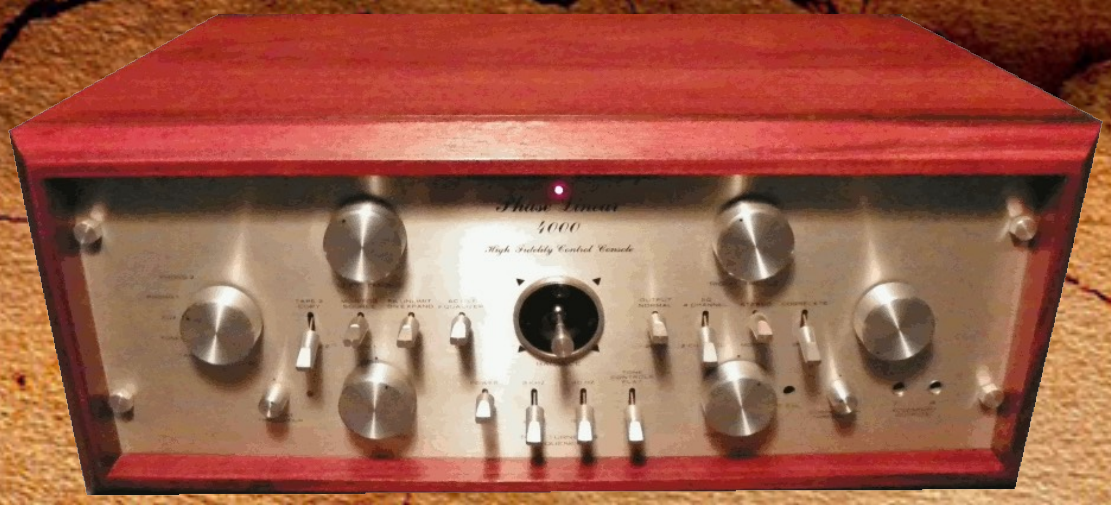
Semiconductors: 6 x transistors, 14 x IC, 2 x FET, 60 x diodes



Phase Linear Model 2000

Specifications

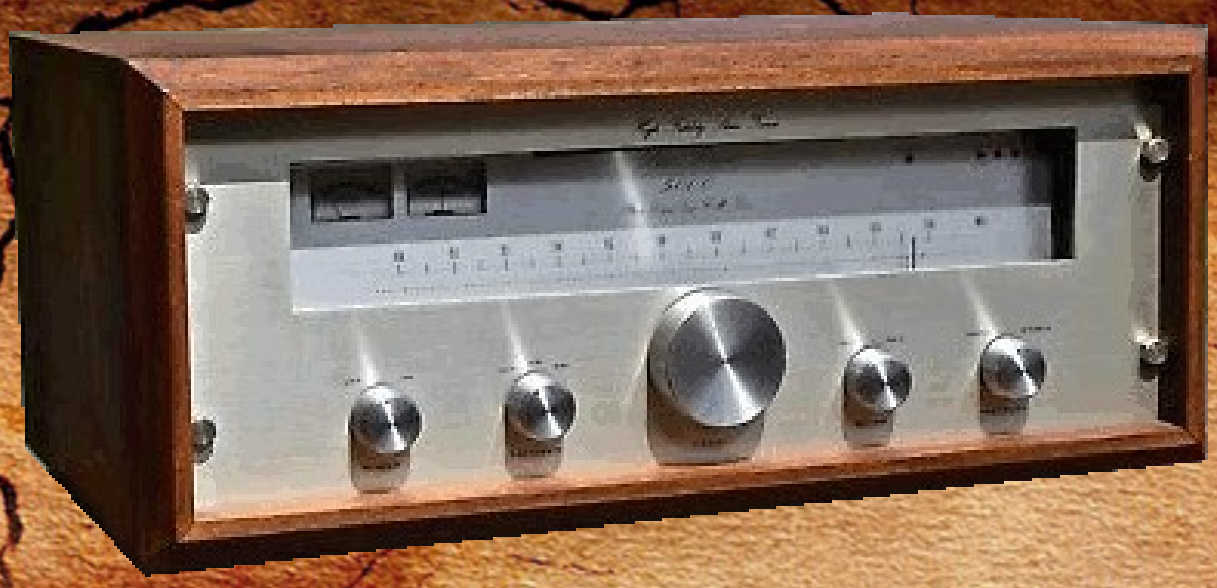
FREQUENCY RESPONSE
Phono ± 5dB of RIAA Standard
TOTAL HARMONIC DISTORTION
Basically so low it is unmeasurable. Less than .1% at rated output with IHF measurement.
INPUT SENSITIVITY
High level input: 350mV
Low level input (Fhono) 3.2mV
INPUT IMPEDANCE
High level input: 40k
Low level input: 47k. 290pf
HUM AND NOISE
20Hz to 20.000Hz inputs shorted:
High level: 88dB below 2V
Low level: 74dB below a lOmV input
AMBIENCE SIGNAL
(L-R) —► L & (R-L) —► R
GAIN
Low Level (Phono) to preamplifier output: 56dB at 1kHz
Phono to tape output: 4ldB at 1kHz
High level to preamplifier output: 15dB at 1kHz
VOLUME CONTROL TRACKING
Less than ldB tracking error.
DYNAMIC RANGE:
Phono overload 80mV
MAXIMUM OUTPUT LEVELS:
Rated at 2V; maximum 10 volts will source a 5k ohm load.
TONE CONTROLS
10 step Rotary Switch for each channel. Turnover frequencies adjustable BASS Turnover Frequency 50Hz: ± lldB at 20Hz
Turnover Frequency 150Hz: ± 13dB at 20Hz
TREBLE
Turnover Frequency 5kHz: £ 10dB at 20,000 Hz
Turnover Frequency 2kHz: £ 14dB at 20.000 Hz
AC OUTLETS
2 switched; 1 unswitched
DIMENSIONS
OPTIONAL ACCESSORY Walnut Cabinet
5 1/2” H X 19” W X 16" D Weight: 9 lb. without cabinet



Phase Linear Model 4000

Specifications

TOTAL DISTORTION: Less than .25%.
Typically .02%.
TOTAL NOISE: High Level: 83 dB below 2 volts.
Phono: 72 dB below a 10 millivolt reference.
INPUT IMPEDANCE: Phono: No less than
47k from 20 Hz to 20 kHz. High Level: 50k.
CAIN: Phono: 65 dB. High Level: 15 dB.
OUTPUT VOLTAGE: Full output 8 volts
R.M.S. Better than 2 volts into 4.7k or greater.
FREQUENCY RESPONSE: Phono: Within ±
I dB of RIAA from 20 Hz to 20 kHz. High
Level: Within ± 1 dB from 20 Hz to 20 kHz.
TONE CONTROLS: Bass: Monotonically increasing and decreasing, dual hinge points, ± 8 dB at 20 Hz. Hinge points switch selectable beginning at 40 Hz or 150 Hz. Treble: Monotonically increasing and decreasing, dual hinge points, ± 8 dB @ 20 kHz. Hinge points switch selectable beginning at 2 kHz and 8 kHz.
ACTIVE EQUALIZER: 6 dB/octave boost
below 50 Hz.
PEAK UNLIMITER: (Nominal peak unlimit
rate attack threshold, front panel variable) .5
dB/micro second for + 6 dB. peak unlimit
operation.
NOMINAL AMPLITUDE ATTACK
THRESHOLD: .2 volts peak at input to peak
unlimiter.
DOWNWARD EXPANDER: Downward expansion commences at — 35 dB. Ultimate limit is — 41 dB. Unlimiter window is 35 dB wide, upper and lower thresholds are simultaneously variable by front panel unlimit threshold control.
FOUR CHANNEL FACILITIES: Built in
CBS SQ system with Phase Linear developed
differential logic for enhanced four channel
separation.
SEMICONDUCTOR COMPLEMENT: 45
transistors. 9 integrated circuits, 57 diodes, 2
zener regulators, 2 light emitting diodes.
AUTO CORRELATOR (NOISE
REDUCTION SYSTEMS): High frequency noise reduction commences at 2 kHz and is 3 dB. reaching 10 dB from 4 kHz to 20 kHz. Low frequency noise reduction begins at 200 Hz, ultimately reaching 20 dB @ 20 Hz. Passive subsonic filter rejection of — 35 dB @ 5 Hz. Weighted overall noise reduction is — 10 dB from 20 Hz to 20 kHz.
TAPE MONITOR: Two tape switches permitting any input source to be recorded on either of two tape machines, play back selection of either machine, or copy of tape machine 2 on to 1 while listening to a second source.
POWER SWITCHING CAPABILITY:
Switched outlets are capable of switching up to 25 amperes.
POWER CONSUMPTION: Preamplifier; 40 watts.
SIZE: 19" wide x 7" high x 10" deep.
WEIGHT: 18 pounds.



Phase Linear Model 5000

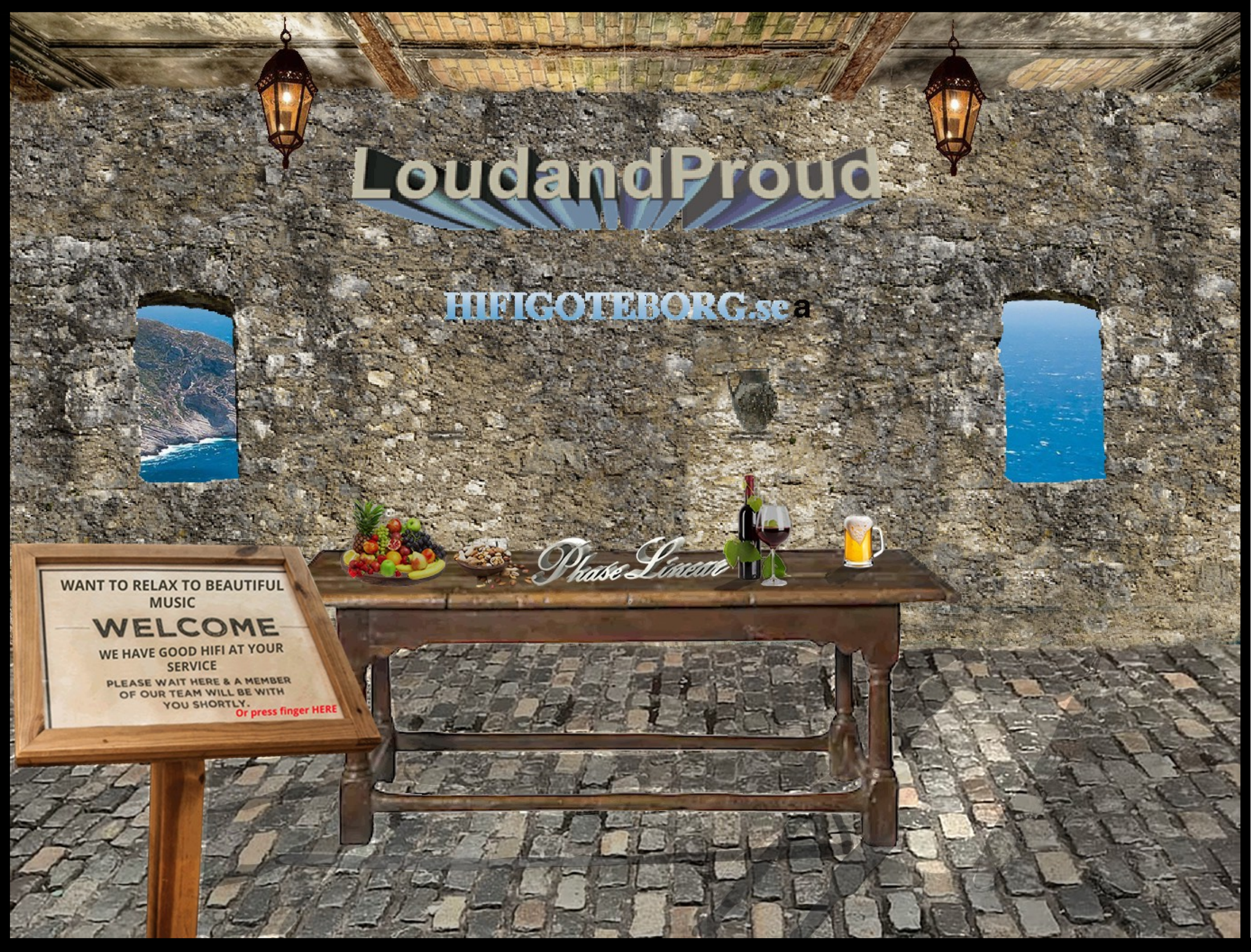
Features:

Large slide rule dial;
Variable muting 2 µV to 100 µV;
Fixed and variable outputs;
25 µSec and 75 µSec de-emphasis;
75 Ω cable connector;
Expander with selection for 4 dB and 9 dB, tailored to "decompress" typical FM compression techniques;
L.E.D. multipath indicator which shows instantaneous multipath distortion;
Center tune and signal strenght meters with back panel calibration adjustments;
Panel light dimmer switch.

Specifications

Sensitivity: 2,0 µV
50 dB Quieting level: 5 µV mono, 25 µV stereo
Signal-to-noise Ratio: 74 dB mono, 72 dB stereo
Selectivity: 75 dB
Capture Ratio: 1,7 dB
Distortion: 1 kHz - less than 0,25% mono or stereo
Separation: 1 kHz - greater than 40 dB
Suppression at 1 kHz: Greater than 40 dB
Suppression at 38 kHz: Greater than 40 dB

Go to the original heaven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WANT TO RELAX TO BEAUTIFUL MUSIC
WELCOME
WE HAVE GOOD HIFI AT YOUR SERVICE
PLEASE WAIT HERE & A MEMBER OF OUR TEAM WILL BE WITH YOU SHORTLY.
Or press finger HERE
Phase Linear