

Specifications

Topology:

Fully differential signal path, with balanced inputs and outputs; all input switching via silver clad relay contacts; level control via digitally controlled analog resistor ladder network. Includes analog bass management, true processor loop, and home theater bypass functions.

Number of Channels:

2

Inputs:

Line level, balanced (XLR); 2 sets (stereo).

Line level, unbalanced (RCA); 4 sets (stereo).

Phono, MC or MM (RCA); 1 set (stereo, with ground terminal);
switch selectable MC or MM; switchable input impedance for MC.

Processor Loop Input, line level, unbalanced (RCA); 1 set (stereo).

Home Theater Inputs, line level, balanced (XLR) or unbalanced (RCA);
1 set (Left, Right, Sub).

Outputs:

Main Outputs, balanced (XLR) and unbalanced (RCA); 1 set (stereo);

both balanced and unbalanced outputs are always active;

(Main Outputs carry High Pass signal when bass management is engaged).

Subwoofer Outputs, balanced (XLR) and unbalanced (RCA);

1 set (Left Subwoofer, Right Subwoofer, Summed Subwoofer);

both balanced and unbalanced outputs are always active;

(Subwoofer Outputs carry Low Pass signal when bass management is engaged).

Processor Loop Output, line level, unbalanced (RCA); 1 set (stereo).

Headphone; 1/8" stereo jack (front panel).

Bass Management:

Independently switchable; Low Pass and High Pass;

each independently adjustable between 50 Hz and 250 Hz.

Crossover slopes: 12 dB/octave.

High-Frequency and Low-Frequency Trims:

HF Trim inflection point: 4 kHz.

HF Trim adjustment range: -3 dB to +3 dB @ 12 kHz in 1 dB steps.

LF Trim inflection point: 200 Hz.

LF Trim adjustment range: -3 dB to +3 dB @ 50 Hz in 1 dB steps.

Gain Structure:

Nominal Output Level: 0 dB = 1 V.

Nominal Gain (Volume set to "0"): 1.

Maximum Gain (main outputs): +12 dB.

Frequency Response:

20 Hz to 20 kHz +/- 0.02 dB (balanced in to balanced out).

20 Hz to 20 kHz +/- 0.015 dB (unbalanced in to unbalanced out).

20 Hz to 20 kHz +/- 0.015 dB (balanced in to unbalanced out).

20 Hz to 20 kHz +/- 0.017 dB (unbalanced in to balanced out).

S/N (signal-to-noise ratio, A-weighted, ref +6 dB):

> 117 dB (balanced in to balanced out).

> 113 dB (unbalanced in to unbalanced out).

> 114 dB (balanced in to unbalanced out).

> 115 dB (unbalanced in to balanced out).

THD + N (harmonic distortion plus noise @ 1 kHz):

< 0.004% (balanced in to balanced out).

< 0.006% (unbalanced in to unbalanced out).

< 0.005% (balanced in to unbalanced out).

< 0.003% (unbalanced in to balanced out).

IMD (intermodulation distortion, SMPTE method, 60 Hz / 7 kHz):

< 0.001% (balanced in to balanced out).

< 0.001% (unbalanced in to unbalanced out).

< 0.0015% (balanced in to unbalanced out).

< 0.007% (unbalanced in to balanced out).

Crosstalk (measured at +6 dB, 10 kHz):

< 100 dB (balanced in to balanced out).

< 102 dB (unbalanced in to unbalanced out).

< 105 dB (balanced in to unbalanced out).

< 100 dB (unbalanced in to balanced out).

Phono Section (moving coil, phono in to balanced out):

Gain (1 kHz, Volume set to "0"): approximately 60 dB.
Input impedance (user selectable): 47 ohms, 100 ohms, 470 ohms, 1k ohm.
S/N (signal-to-noise ratio, A-weighted, ref 1.0 mV in): > 79 dB.
Frequency response (referenced to standard RIAA curve): 20 Hz to 20 kHz +/- 0.35 dB.
THD (total harmonic distortion, ref 1.0 mV): < 0.008%.
IMD (intermodulation distortion, SMPTE method): < 0.15%.
Crosstalk: < 65 dB.

Phono Section (moving magnet, phono in to balanced out):

Gain (1 kHz, Volume at 0): approximately 40 dB.
Input impedance: 47k Ohms.
S/N (signal-to-noise ratio, A-weighted, ref 10.0 mV in, A-weighted): > 96 dB.
Frequency response (referenced to standard RIAA curve): 20 Hz to 20 kHz +/- 0.3 dB.
THD (total harmonic distortion, ref 10 mV): < 0.001%.
IMD (intermodulation distortion, SMPTE method): < 0.05%.
Crosstalk: < 80 dB

Trigger and IR:

Trigger Input; Trigger Output.
IR input; IR Output.

Front Panel Controls and Indicators:

Volume; rotary knob (digital encoder).
Standby; push button; halo lighting changes color to indicate Standby or On).
Input Selector; push buttons (7); with halo lighting.
Mute; push button.
HT Bypass; push button.
Processor Loop; push button.
Dim; push button.
High Frequency and Low Frequency Trim Controls (4); push buttons.
Direct; push button (bypasses High Frequency and Low Frequency Trim controls).
Halo light around Standby push button (illuminates yellow for Standby and blue for On).

Rear Panel Controls:

AC Power switch; rocker switch (switches AC mains power).
Moving Coil / Moving Magnet Cartridge Selector; slide switch.
MC Impedance Selector; slide switch.
High Pass / Full Range, Low Pass / Full Range); toggle switches (2).
High Pass Crossover Point, Low Pass Crossover Point; adjustment trimpot (2).

Power Requirements:

115 VAC or 230 VAC +/- 10% @ 50 / 60 Hz (automatically detected and switched).

Power consumption (On): 32 watts.

Power consumption (Standby): <1 watt.

Dimensions:

17" wide x 6" high x 16.5" deep (includes feet and terminals).