

Rated Output Voltage	
from 20Hz-20KHz into 41-KOhm load	1 Volt RMS.
Voltage Gain	
	7.43 ± 2% or 17.43 ± 0.2dB.
Attenuation	
	3.98 ± 2% or 12 ± 0.17dB.
Absolute Phase	
	Inverting.
Frequency Response	
from 1-50 Volts RMS into 41-KOhm load	(-0.1dB) 20 Hz - 20 KHz. (-3dB) 5 Hz -140 KHz.
Slew Rate	
Vout=36 Volts peak-to-peak of square-wave signal, F=10KHz; into 41-KOhm load	47 Volts per microsecond.
Rise Time	
Vout=36 Volts peak-to-peak of square-wave signal, F=10KHz; into 41-KOhm load	0.61 microseconds.
Total Harmonic Distortion from 20 Hz - 20 KHz	
Vout=1 Volt RMS into 41-KOhm load Vout=50 Volts RMS into 41-KOhm load	no more than 0.03% no more than 1%
Vout=1 Volt RMS into instrument load Vout=50 Volts RMS in to instrument load	no more than 0.03% no more than 1%
Vout=1 Volt RMS into IHF load Vout=30 Volts RMS into IHF load	no more than 0.03% no more than 1%
IM Distortion (60Hz:7KHz 4:1) SMPTE:	
Vout = 1 Volt RMS into 41-KOhm load Vout = 10 Volts RMS into 41-KOhm load	no more than 0.09% no more than 1%
Vout = 1 Volt RMS into instrument load Vout = 10 Volts RMS into instrument load	n o more than 0.09% no more than 1%
Vout = 1 Volt RMS into IHF load Vout = 10 Volts RMS into IHF load	no more than 0.09% no more than 1%
Inputs	
Unbalanced	gold plated single-ended RCA connectors.
Input Sensitivity	
Vout = 1 Volt RMS into 41-KOhm load	0.135 Volts RMS ± 2%.
Input Impedance	
F=1KHz	Typically 16.5 KOhms.
Outputs	
Unbalanced	gold plated single-ended RCA connectors.
Pseudo-balanced	3-pin gold plated XLR connectors. Pin assignment: pin 1 = signal ground; pin 2 = signal output; pin 3 = not connected.
Corrected Output Impedance	
F=1KHz	typically 200 Ohms.
Noise	
signal-to-noise ratio, below 2 Volts RMS output, unweighted	better than 87 dB.
signal-to-noise ratio, below 2 Volts RMS output, 22Hz - 22KHz	better than 90 dB.
signal-to-noise ratio, below 2 Volts RMS output, A-weighted	better than 97 dB.
Operating Temperature	
	-4 to +104 degrees Fahrenheit (-20 to +40 degrees Celsius) ambient.
Power Supply	
nominal line voltage	100-240 Volts, 50/60Hz.
Input voltage range	±10%. One power transformer, two vacuum tube rectifiers, four filter chokes, one high voltage (350 vdc) high energy power supply, two solid-state analog non-switching voltage regulators. AC voltage intensively filtered by special RFI power line filter.
Front/Rear Preamplifier	
Front Panel Controls	<ul style="list-style-type: none"> • LED control. • OUTPUT LEVEL control. • SELECTOR switches. • MONITOR switches. • ATTENUATOR (-12dB) switch. • MUTING switch. • OUTPUT 1 switch. • OUTPUT 2 switch.
Rear Panel Connectors and Controls	<ul style="list-style-type: none"> • Four INPUT CONNECTORS RCA for line inputs and TAPE (play). • One OUTPUT CONNECTOR RCA for TAPE (record). • Three OUTPUT CONNECTORS RCA (single-ended outputs). • Three gold-plated XLR CONNECTORS (pseudo-balanced outputs). • One XLR CONNECTOR (6 pins, gold-plated) for connecting the power supply cable.
Front/Rear Preamplifier Power Supply	
Front Panel Controls	<ul style="list-style-type: none"> • POWER switch. • OUTLETS switch. • REMOTE 1 turn-on/off switch for LAMM power amplifiers. • REMOTE 2 turn-on/off switch for LAMM power amplifiers. • Four LED controls.
Rear Panel Connectors and Controls	<ul style="list-style-type: none"> • IEC 320 POWER INLET (3 lug). • Two AC OUTLETS, switched. • One XLR CONNECTOR (6 pins, gold-plated) for connecting the power supply cable. • Two REMOTE CONTROL plugs. • EARTHING POST (gold plated).
Features	
	<p>Pure class A, single-stage zero feedback design, providing the shortest signal path possible.</p> <p>Four low internal impedance (about 800 Ohms per triode!) very linear medium-mu duo triodes are connected in parallel, thus minimizing the internal noise of the preamplifier and ensuring the unprecedentedly low output impedance for this type of topology.</p> <p>High-current drive capability, in combination with unique single-ended class A circuitry, assure the preamplifier's capability to drive any cable and any real world load, while maintaining its practically inaudible sonic signature.</p> <p>LL1 Specially designed damping panel installed in the LL1 <i>Signature</i> preamplifier effectively isolates all sensitive electronic components from any induced resonances.</p> <p>Absolutely outstanding signal-to-noise ratio makes the LL1 <i>Signature</i> one of the quietest line-stage preamplifiers available on the market.</p> <p>This design is unique to LAMM INDUSTRIES, INC.</p>
AC voltage selector	100/120/220/230/240 Volts, internally switchable.
Remote Control	Special built-in circuit enables the remote turn on/off of LAMM power amplifiers. Available remote link cable coordinates the remote functions of two or more amplifiers.
Safety	<p>Unique electronic protection circuit enables muting of the outputs until the preamplifier is stabilized after a turn-on, as well as functioning of the preamplifier in a "muting" mode during operation, and automatic switching to a muting mode in case the AC line drops or is interrupted.</p> <p>Plate voltage overload protection: 0.3 Amps slo-blo fuse, internally mounted.</p> <p>AC voltage fuses: 2 Amps slo-blo for 100/120 Volts, 1 Amp slo-blo for 220/230/240 Volts, internally mounted.</p>
General	
Power Consumption	Typically 96 Watts.
Burn-in Time at Factory	Minimum 72 hours.
Recommended Burn-in Time in End-user's System	Minimum 80 hours.
Warm-up time	Minimum 25 minutes.
Unit dimensions (identical for preamplifier and power supply):	4.5 inches high x 19 inches wide x 13.875 deep + 1.375 inches for front handles.
Crate dimensions:	23" x 19" x 10" (58.42cm x 48.26cm x 25.4cm)
Unit weight preamplifier power supply	35.8 Lbs (16.2 Kg). 21.2 Lbs (9.6 Kg).
Shipping weight preamplifier power supply	53.8 Lbs (24.4 Kg). 39.2 Lbs (17.8 Kg)
Tube Complement Preamplifier	four 6N30P-DR / 6H30П-ДР (original), first (single) amplification stage.
Power supply	two 6X4, rectifier tubes.