

JL7 TRIODE MONO AMPLIFIER SPECIAL EDITION

Philosophy is the most important aspect of any design. CAT's philosophy is to design our products to neither add to, nor detract from, the music. We never attempt to cover up a design problem with another problem, nor do we introduce a supposedly complementary problem to "synergise" with it. Two wrongs do not make a right. Only the eradication of the problem is correct.

The JL7 was designed to bring the famous CAT quality into a smaller more convenient chassis and make tube biasing much easier. The JL7 even uses the same driver tube technology as THE STATEMENT amplifier. This driver is specifically optimized for the high current KT150 tube, but also yields superior results with the venerable 6550/KT88 tube. The new JL7, delivers the famous CAT "drive anything" sound in full measure!

With triode purity, transparency, and vibrancy that surpasses even the most refined low power single ended triode amplifiers combined with brute force current delivery exceeding all other tube amps, even those rated at four times the power, the JL7 is an amplifier which will force you to reevaluate your reference standards.

Power Supply

- Power transformer is encased in a separate nickel plated steel housing to contain the magnetic field.
- Massive 1800 joules of energy storage, per channel.
- Isolation transformer eliminates entry of AC power line noise into the amp, yielding greater benefits than add-on conditioners without any of their sonic drawbacks or expense.
- Slow filament power-up extends tube life greatly.
- Quadruple cascaded audio power supply uses time compensated zero feedback mosfets and vacuum tubes to deliver unequalled dynamic contrast and resolution.

Circuitry

- Pure Triode audio circuitry produces tonally natural music by eliminating the partition noise inherent in pentode designs and the resulting noise intermodulation ("grain").
- Low feedback (about 7dB) properly compensated design eliminates the tonal hardness of high feedback and/or improperly compensated designs while yielding more consistent sound quality.
- Ultra-wide open loop in-circuit bandwidth of the output transformer enables operation of the amp's closed loop response entirely within the open loop response, eliminating any requirement to use high feedback to force the output stage to perform beyond its natural capability.
- Massive 27 lb. output transformers allow the magnetics to operate at maximum linearity with amazing bass.
- Unprecedented stability into capacitive loads. Fantastic for driving even the most difficult electrostatic speakers.

Special Edition Features

- Huge Amorphous Alloy core has less than 1/12 the hysteresis of conventional grain oriented silicon steel used by the competition, yielding a level of transparency no other tube manufacturer can match.
- Ultra low loss aerospace circuit board material.
- Legendary Black Gate power supply capacitors.
- Revolutionary BLACK PATH audio capacitors.
- MASSIVE 1800 Joule Power Supply

Chassis

- Beautiful Golden Ratio proportions.
- Mirror polished stainless steel maintains luster and brilliance with minimal care.
- Heavy steel chassis for tremendous strength and the elimination of low frequency vibration, yielding incredible bass solidity and rock solid imaging.
- Constrained damping layer on top plate silences vibration before it can be converted to electromechanical noise.
- Output transformers are enclosed within their own magnetically isolated housing which is lined with Birch plywood - one of the most musical woods.
- Mechanical isolation from floor vibration provided by anti-resonance viscoelastic feet.

Convenience

- No user bias adjustments. Just plug in CAT supplied tubes and play.
- OptiBias(TM) compensates for power line fluctuations up to 10% either way. Tubes always sound their best!
- Tube life indicator. Green indicates the tubes are still good. Red indicates time to replace.
- Tubes operated at only 1/4 rated power for very long life expectancy.
- Both single ended (RCA) and balanced (XLR) inputs.

Specifications:

Power:	220 Watts, 4 or 8 ohms, 1%THD
THD @ 1 Watt:	0.005%
Energy Storage:	1800 joules per channel
Bandwidth:	20 Hz to 20 kHz (+/- 0.1dB)
Damping Factor:	14, across entire audio band
Gain:	27dB (8 ohms), 24dB (4 ohms)
Input Impedance:	100K ohms single ended 200K ohms balanced
Sensitivity:	2 VAC for full power
Noise:	120 dB below full power
Power Bandwidth:	20 Hz to 30 kHz
Tube Complement:	2 x 6922 driver and power supply 8 x KT120, triode mode
Dimensions:	20" x 12.4" x 7.8" (L:W:H) 50cm x 31cm x 20cm
Weight:	90 lbs. (40kg) each unit

Convergent Audio Technology

85 High Tech Drive • Rush • New York • 14543
Tel: (585) 359-2700