







## Nº433 TRIPLE-MONO POWER AMPLIFIER

## A Mark Levinson Amplifier for the Multi-Channel Age

The Nº433, Mark Levinson's first threechannel, single-chassis power amplifier, is a significant milestone. It combines multichannel flexibility with the legendary quality and performance of our traditional single- and dual-monaural designs. The Nº433 is our recognition that today's home entertainment enthusiasts have a plethora of choices available to them, that a growing number of these choices use multi-channel sound to express artistic vision, and that today's audiences deserve no less than the most truthful aural windows possible. The Nº433 is ideal for this demanding role.

#### The Power of Three

A three-channel amplifier is inherently flexible. It lets you power all front speakers (Left, Center, and Right) with identical circuitry and use your existing amplifier for the surround channels. Are you adding multichannel capability to an already-exceptional stereo music system? The Nº433 can provide power for a Center and two Surround speakers.

#### Flexibility and Quality

Fitting three separate amplifiers in an enclosure normally devoted to one or two presented significant challenges, including potential interference and heat dissipation issues far beyond those encountered in single- and dual-mono amplifiers.

In addition, power amplifiers are core components of any high performance entertainment system. Power amplifiers play an inherently difficult role as they need to be authoritative enough to drive a wide variety of demanding speakers, yet transparent in order to preserve sonic neutrality.

## A Multi-Channel Standard

The N°433 is no exception to the demanding standards that Mark Levinson amplifiers have defined for more than three decades. Rated at 200 watts per channel into 8 Ohms and 400 watts per channel into 4 Ohms, the N°433 is convection cooled and utilizes exposed internal heat sinks for each channel.

With basic design directly traceable to our  $N^{\circ}432$  and  $N^{\circ}431$  dual-monaural power amplifiers, the  $N^{\circ}433$  boasts three massive

and totally independent linear power supplies, each consisting of a low-noise toroidal power transformer and a bank of low-loss capacitors to insure copious energy storage. Control of this power reserve is the task of the power amplifier's voltage gain and output stage circuitry, an area in which Mark Levinson amplifiers have always excelled.

Balanced circuitry, another facet of our design expertise, is readily apparent in the N°433. However, rather than take the less costly route of simply duplicating circuitry for both halves of the balanced input signal, our approach features an elegant new topology for greater efficiency, higher performance, and total sonic neutrality.

#### The Levinson Difference

All Mark Levinson power amplifiers benefit from extraordinary attention to circuit layout, signal routing, and connector placement. Engineers intimately familiar with each circuit's operation design circuit boards individually, a practice that stands in sharp contrast to the generic computer-generated layouts used by many other companies. It is human insight and disciplined intuition that distinguishes the Nº433 – and all 400-series amplifiers – and allows it to outperform its predecessors.

Another factor in Mark Levinson excellence is the array of the ultra-high performance parts that populate our balanced circuits. Even the circuit board itself is of prime importance as it allows these parts to perform ideally under a wide range of temperatures and humidity. Here, the advanced material Arlon<sup>®</sup> provides a physically inert and sonically neutral base.

For the output sections, we've chosen bipolar transistors with the best performance characteristics and mounted them directly on the exposed internal black-anodized aluminum heat sinks for maximum heat dissipation.

#### In Summary

With its flexible triple-monaural design and unique combination of brute force and finesse, the N°433 perfectly augments the 400 series of amplifiers.

Accuracy. Reliability. Flexibility. The Nº433 places Mark Levinson firmly in the multichannel world.

 $N^{\mbox{\scriptsize o}}433$  interior.



# Nº 433 Triple-Mono Power Amplifier

Rated power output:	200 W/ch rms power @ 8 $\Omega$ 400 W/ch rms power @ 4 $\Omega$
	all above power ratings from 20 Hz–20 kHz at <0.5% THD (assuming that the AC mains can deliver adequate current, without its own voltage sagging)
Frequency response:	within 0.2 dB from 20 Hz to 20 kHz
Signal-to-noise ratio:	better than –80 dB (ref. 2.83 V)
Voltage gain:	26.8 dB
Input impedance:	100 k $\Omega$ (balanced) 50 k $\Omega$ (unbalanced)
Input sensitivity	2.83 V output: 130 mV Full output: 1.82 V
Power consumption:	200 W in on, 100 W in standby, 10 W in sleep
Mains voltage:	Determined by the needs of the country for which the unit was manufactured; cannot be reset by dealer or user
Connector complement:	<ul> <li>(6) custom binding posts</li> <li>(3) 3-pin XLR balanced input connectors</li> <li>(3) RCA input connectors</li> <li>(2) 1/8-inch mini-jacks for remote turn-on</li> <li>(1) RS-232 port on RJ-11</li> <li>(2) Mark Levinson communications ports on RJ-11, RJ-45</li> <li>(1) IEC-standard AC receptacle</li> </ul>
Output impedance:	less than 0.05 $\Omega$ from 20-20,000 Hz
Overall dimensions:	width: 17.75" (45.1 cm) height: 7.65" (19.4 cm) depth 19.83" (50.4 cm)
Shipping weight:	130.5 lb (59.2 kg)
Net weight:	114.5 lb (51.9 kg)

Specifications are subject to change without notice.



Nº433 channel assembly



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