

LAB 12

LAB12.GR

Products USPs

UNIQUE SELLING POINTS





Integre4 MK2

Toroid Version

- **Exceptional Power Output:** 65 Watt per channel, providing sufficient power to drive even the most demanding speakers with precision. Incredible low noise and dynamic power for a tube Integrated amplifier.
- **Tube Rolling Made Easy:** Built-in bias system with OLED display allows effortless tube replacement and sound customization without technical expertise.
- **Flexible Compatibility:** Supports various tube types (EL34, KT88, KT120, KT150) and accommodates 4-8 ohm speakers.
- Available from the factory with KT150 or KT120 or Genalex KT88 tubes.
- **Innovative Dual Mono Design:** Features two independent high-current toroidal transformers and fully dual mono design for unparalleled channel separation and reduced noise.
- **Enhanced Private Listening:** High-quality headphone circuit utilizing the upgraded power transformers for an immersive experience.
- **Available Colours:** Matt Black, Frozen Silver
- Fully upgraded Housing and Packaging

Rewards:

- **HiFi Pig:** "Editor's Choice" Award
- **HiFi – IFAs:** Rated 5.6/6



Suara MK2

Toroid Version

- **Class A Power Amplifier:** 50 Watt per channel with KT150 tubes, providing immense control and detail.
- **Flexible Tube Modes:** Easily switch between Triode and Ultra-Linear for tailored sound performance.
- **Innovative Dual Mono Design:** Features two independent high-current toroidal transformers and fully dual mono design for unparalleled channel separation and reduced noise.
- **Advanced Bias Control:** Easy manual bias adjustment for optimal performance and tube longevity with a multimeter from the back side of the unit
- **Tube Compatibility:** Supports a wide range of tubes (6550, KT88, KT120, KT150), offering flexibility for sound customization.
- Available from the factory with KT150 or KT120 tubes.
- **Eye Catching Timeless Design:** Retro VU meters and minimalist aluminum chassis.
- **Available Colours:** Matt Black, Frozen Silver

Rewards:

- **HiFi Pig:** "Editor's Choice" Award



Suono MK2

Toroid Version

- **Pure Class A Power Amplifier:** Delivers 25 Watt per channel, providing rich, dynamic sound with exceptional musicality and emotional involvement.
- **Tube Compatibility:** Supports 6550, KT88, KT120, and KT150 tubes for customizable sound tuning.
- Available from the factory with KT150 or KT120 tubes.
- **Advanced Power Supply:** Equipped with a low-noise toroidal transformer for stable, clean power delivery.
- **Flexible Tube Modes:** Easily switch between Triode and Ultra-Linear for tailored sound performance.
- **User-Friendly Bias Adjustment:** Accessible bias adjustment on the top panel allows effortless calibration of power tubes.
- **Optional Tube Cage:** Available for enhanced safety and an alternative aesthetic.
- **Available Colours:** Matt Black, Frozen Silver



Mighty

- **Class A Power Amplifier:** Single-ended design delivers unmatched clarity, warmth, and natural sound for a truly immersive listening experience.
- **Tube Compatibility:** Compatible with EL34, 6550, and KT88 tubes, with EL34 included from the factory.
- **Exceptional Synergy:** Works seamlessly with solid-state and tube preamplifiers.
- **Fatigue-Free Listening:** Provides hours of musical enjoyment with zero listening fatigue.
- **Available Colours:** Matt Black



Pre1

- **Class A Tube Preamplifier:** Delivers rich, dynamic, and transparent sound, embodying the natural warmth and clarity of pure Class A tube design.
- **Exceptional Compatibility:** Works seamlessly with both solid-state and tube power amplifiers.
- **Dual-Mono Design:** True dual-mono architecture with SRSG® and Fine symmetry® implementation circuitry for superior channel separation.
- **Premium Tubes:** Equipped with matched 6922 dual triodes for organic and involving sound performance.
- **Refined Power Supply:** Four-stage regulated solid-state power supply delivers state-of-the-art filtering and power reserve.
- **Available Colours:** Matt Black, Frozen Silver

Rewards:

- **Stereophile:** Recommended Components 2025
- **HiFi Pig:** Highly Recommended



True

- **Pure Signal Path:** Ensures unaltered signal delivery with no added coloration, preserving the integrity of the original audio.
- **Ultra-Transparent Volume Control:** Equipped with a Blue Velvet ALPS Audio Grade potentiometer for smooth and precise adjustment.
- **High-Quality Input Selector:** Provides seamless switching between multiple audio sources with minimal signal loss.
- **Versatile Ground Settings:** Features a 3-position switch ground setting for optimized performance in various setups.
- **Available Colours:** Matt Black



Dac1 Reference

- **Non-Oversampling Design:** Ensures the purest digital-to-analog conversion, preserving the natural warmth and dynamics of the music.
- **Tube Output Stage:** Features 2x 6922 dual triode tubes for a rich, organic, and analog-like sound signature.
- **Exceptional Digital Performance:** Utilizes 8x Multibit Philips DAC chips in parallel configuration for precise and detailed sound reproduction.
- **Multiple Inputs and Outputs:** Offers flexible connectivity with SPDIF (Coaxial RCA), USB2, and Optical Toslink inputs, plus both RCA and XLR outputs (balanced version available).
- **Premium Power Supply:** Includes 6 separate regulated power supplies and a toroidal power transformer for noise-free operation and stable performance.
- **Retro Aesthetic:** Features analog Nissei VU meters, combining classic design with modern functionality.
- **Available Colours:** Matt Black, Frozen Silver

Rewards:

- **HiFi Pig:** "Outstanding Product" Award
- **Part-time Audiophile:** Reviewers Choice



Melto1

- *Tube MC/MM Phono Preamplifier: Works seamlessly with both Moving Magnet and Moving Coil cartridges.*
- *Full adjustable settings: Cartridge type, Impedance, Capacitance*
- *Premium Tube Design: Powered by 4x NOS dual triodes (2x 6N1P-EV, 2x 6n2p-EV) for rich and natural sound.*
- *Toroidal Power Supply: Provides clean, stable power for noise-free operation.*
- *Available Colours: Matt Black*

Rewards & Reviews

- *Mono & Stereo: "Best Buy" Award*



Melto2

- **Multi awarded Fully Remote Controlled. Adjustable Phono Preamplifier**
- **MM/MC Compatibility:** Works seamlessly with both Moving Magnet and Moving Coil cartridges.
- **Full Tube Design:** Powered by Selected E88CC and 6n2p-EV dual triodes for rich, analog sound.
- **Fully Adjustable Settings:** Fine-tune cartridge type, gain, impedance (25 ohm – 47K ohm), capacitance (0–300pF), EQ curve, and Mono/Stereo output. On the fly adjustments while listening to music from listening position.
- **Multiple EQ Curves:** Switch between RIAA, DECCA, and Columbia for optimal vinyl playback.
- **Remote Control with OLED Display:** Adjust settings effortlessly in real time from your listening chair.
- **Toroidal Power Transformer:** Provides clean, stable power for noise-free operation.
- **Connections:** Includes 3x RCA stereo inputs and both RCA and XLR stereo outputs.
- **Available Colours:** Matt Black, Frozen Silver

Rewards

- **Hi-Fi Pig:** "Outstanding Product" Award
- **Hi-Fi Voice:** "Platinum Note" Award
- **Mono & Stereo:** "Best Buy" Award
- **Part-Time Audiophile:** "Editor's Choice" Award
- **Haute Fidelite:** Meilleur Achat

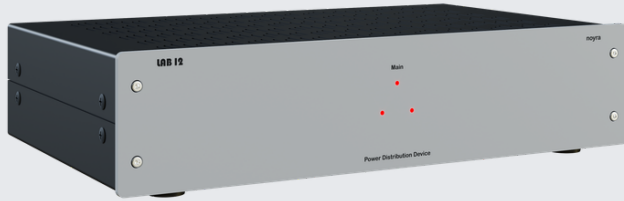


Gordian

- **Power Distribution:** Equipped with six outlets (high and low filtered) for versatile audio system connectivity.
- **Adaptive Filtering System:** Features adaptive EMI/RFI filtering, common and differential filters, and power factor correction for clean, stable power.
- **Advanced Power Analysis:** Includes FFT, DC voltage, THD, and power consumption analysis for precise monitoring and control.
- **User-Friendly Operation:** Offers both automated and manual operation modes, adjustable with a single button.
- **OLED Display:** Clear and detailed information display for real-time power line industrial grade analysis and adjustments.
- **Overvoltage Protection:** Safeguards your audio system from electrical surges.
- **Industrial-Grade Performance:** Ensures a clean and articulate sound with no negative impact on audio frequencies.
- **Available colours:** Matt Black, Frozen Silver.

Rewards

- **Stereo+:** Rated 9.1/10
- **Mono & Stereo:** Best Buy Award



Noyra

- **Advanced Power Technology:** Incorporates cutting-edge filtering and power distribution technology in a simplified design. Zero Negative effects.
- **Efficient Power Delivery:** Six outlets provide clean and reliable energy flow, with four high-filtered and two high-current outputs.
- **Advanced Filtering:** EMI/RFI filtering ensures noise-free power delivery for optimal performance.
- **Overvoltage Protection:** Protects all connected devices from power spikes and surges.
- **Star Design Layout:** Eliminates current loops for pure and consistent power delivery.
- **Available colours:** Matt Black, Frozen Silver.

Amplifying							
	integre4 Mk2 Toroid Version	suara Mk2 Toroid Version	suono Mk2 Toroid Version	mighty	pre1	hpa	true
Output Per Channel (watt)	65	50	25	-	-	-	-
True Dual Mono Design	✓	✓	-	-	✓	-	✓
Toroid Power Transformer	✓ dual	✓ dual	✓	✓	✓	-	-
Power Tubes Compatibility	EL34, KT88, KT120, KT150	6550, KT88, KT120, KT150	6550, KT88, KT120, KT150	EL34, 6550, KT88	-	-	-
Biasing	Directly on OLED display	Back Side, Multimeter need	Top Side, Multimeter need	Automatic	-	-	-
Power Tubes Operation Class	A - A/B	Pure A	Pure A	Pure A	Pure A	Pure A	-
Power Tubes Mode	Ultra Linear	Triode, Ultra Linear	Triode, Ultra Linear	Triode, Ultra Linear	-	-	-
Selected NOS tubes	✓	✓	✓	✓	-	✓	-
Available Inputs	1xXLR, 5xRCA	1xXLR, 1xRCA	1xRCA	1xRCA	5xRCA	1xUSB, 2xRCA	3xRCA
SRSG® implementation	✓	✓	✓	✓	✓	-	-
Fine symmetry® implementation	-	✓	✓	✓	✓	-	✓
Remote Controlled	✓	-	-	-	✓	-	-
Headphones	✓	-	-	-	-	-	✓
OLED display	✓	-	-	-	-	-	-
Retro VU Meters	-	✓	✓	✓	-	✓	-
Warranty	5 years	5 years	5 years	5 years	5 years	5 years	5 years
Optional Tube Cage	✓ (TG3)	✓ (TG1)	✓ (TG1)	✓ (TG2)	-	-	-
Available Colours	Matt Black, Avus Silver	Matt Black, Frozen Silver	Matt Black, Frozen Silver	Matt Black, Frozen Silver	Matt Black, Frozen Silver	Matt Black, Frozen Silver	Matt Black
KEY POINTS	Maybe the best sounding tube integrated amplifier in the world Very easy tube rolling Very easy biasing Fully upgraded	Easy tube rolling Easy biasing Musical but powerful	Value For Money Easy tube rolling Easy biasing	Easy tube rolling Auto biasing 3Dimensional sound with sensitive speakers	Very Low Noise floor	Preamplifier Headphone Amplifier Basic USB DAC Full Tube Design	3 positions switch ground setting
Exceptional performance for the money. True Handcrafted.							
Retro - modern clean design							
Source				Power			
	dac1 reference	melto2	melto1		gordian	noyra	
Available Inputs	1xUSB, 1xOptical SPDIF, 2xRCA SPDIF	3xRCA	1xRCA	Available Outputs	4x High Filtering, 4x High Current	4x High Filtering, 4x High Current	
Moving Coil Stage	-	Lundahl Transformers	Low Noise OP Amps	Total Outputd Power	4500 W	3500 W	
Toroid Power Transformer	✓	✓	✓	Outlets Type Version	EU, US, UK, Swiss	EU, US, UK	
Selected NOS tubes	-	✓	✓	Adaptive Filtering	✓	-	
SRSG® implementation	✓	✓	✓	Scientific Power Analysis	✓	-	
Fine symmetry® implementation	✓	✓	✓	Power consumption analysis	✓	-	
Remote Controlled	-	✓	-	Overvoltage protection	✓	✓	
OLED display	-	✓	-	OLED display	✓	-	
Retro VU Meters	✓	-	-	Mains inlet	20A IEC C20	16A IEC C14	
Warranty	5 years	5 years	5 years	Warranty	5 years	5 years	
Available Colours	Matt Black, Frozen Silver	Matt Black, Frozen Silver	Matt Black	Available Colours	Matt Black, Frozen Silver	Matt Black, Frozen Silver	
KEY POINTS	The most analog sounding DAC	Fully remote control on the fly. Up to 3 turntables at the same time	High Value for Money	KEY POINTS	Fully automated operation. ZERO negative results on music performance.	High Value for Money	

*SRSG Separate Rails Separate Grounds

Audio devices designs mainly consist of power supplies stages and audio stages. Power supply stages are handling high currents that are necessary to drive and feed the amplification stages. What we are doing is to strongly minimize any common paths of sensitive audio signal and high current loops aiming to achieve the higher possible signal to noise level and the lower inner resistance.

*Fine Symmetry

One of the most important factors on 2 channel Audio is the same and ideally identical treatment of 2 (Left and Right) signals. From the source, that could be an analogue cartridge or a digital file to the pair of speakers, these two signals must pass through identical paths.

Fine Symmetry provides exactly this. All critical parts of two channels are strictly matched and placed on PCBs with the exact same topology.

PCBs copper paths keep the same size (width and length) in order to keep resistance, capacitance and induction to same levels on both channels. Fine Symmetry provides low crosstalk between channels and a wider sound stage.

*NOS tubes

We choose NOS (New Old Stock) tubes on some of our amplifiers. This choice, of course, brings us some advantages and disadvantages. It is hard to find totally new old stock tubes, especially in quantities a manufacturer may require.

It is harder to find the exact type and even date period you prefer, but if you spend a lot of time in contacts and gradually build a safe stock then you have the choice.

Yes, we strongly believe that in some cases a NOS Russian dual triode, manufactured around 80's is really hard to beaten and this is the main reason that we are keeping a strong percentage of world stock of those tubes.

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Our Commitment to Excellence

These accolades reflect Lab12's commitment to delivering high-quality, handcrafted audio equipment that resonates with critics and audiophiles worldwide. Our products are not just multi-awarded but are loved by users who appreciate true audiophile-grade sound. Visit our [blog](#) to explore detailed reviews and more insights into our award-winning products.