

DEMOGRAF AUDIO

Helios MkII

Class A single-ended integrated amplifier on G-811 triodes, 15 W

Made by Dmitriy Gubchenko. Every unit ships with a Manufacturing Record stating its country of origin and a bill of materials.

Sound

Vocal · jazz · rock · demanding planar headphones

Helios MkII is a single-ended Class A integrated on G-811 triodes, 15 W per channel. It was designed with the Altec Lansing 1570B monoblocks as the reference point, and its headroom is aimed at hard-to-drive headphones such as the HiFiMan HE-6 or Audeze LCD-3 as well as sensitive loudspeakers. The presentation is detailed and holographic, with a punchy, easy bass. Note that the G-811 and the original RCA 811 are different tubes from modern budget derivatives such as the SV811-10.

Inspired by the legendary work of art — Altec Lansing 1570B

Materials & build

Two chassis: the amplifier and an external power supply with a kenotron rectifier, galvanic isolation, custom-wound transformers and chokes. Mundorf silver capacitors are part of the standard build.

- Output: 2 × G-811 (811 / 811A or EU/US equivalents optional)
- Driver: 6P3S; input: 6Zh4
- Rectifier: 2 × 6D22S or 1 × 5C3S

COMPONENT	MANUFACTURER	COUNTRY OF ORIGIN
Output tubes G-811	NOS, selected	US / EU / UK (NOS) / Other Vintage
Driver tubes 6P3S	NOS, selected	US / EU / UK (NOS) / Other Vintage
Input tubes 6Zh4	NOS, selected	US / EU / UK (NOS) / Other Vintage
Rectifier tubes 6D22S	NOS, selected	US / EU / UK (NOS) / Other Vintage
Signal capacitors	Mundorf (Silver)	Germany
Transformers and chokes	Demograf Audio (custom-wound)	or analog by Hashimoto / Tango / Tamura
Volume control	ALPS	Japan

Signal path

Input **RCA** → Volume **ALPS** → Input stage **6Zh4** → Driver **6P3S** → Output tube **G-811** → Output transformer **Custom-wound** → Output **Speakers · phones**

Specifications

Use	Universal: loudspeakers and headphones
Output power	15 W per channel at 8 Ω (Push-Pull version with double power available on request)
Amplifier class	Pure Class A
Channels	2 (Stereo)
Inputs	Analogue RCA (Optional: Balanced XLR)
Headphone outputs	1 × 6.3 mm TRS, 1 × XLR 4-pin (Optional: 2.5 mm, 3.5 mm, 4.4 mm Pentaconn, dual XLR 3-pin, or Electrostatic/EST connector)
Speaker outputs	Standard binding posts (Demograf Audio terminals optional)
Load impedance	8 Ω (Optional: 4 Ω / 16 Ω customisation)
Output tubes	2 × G-811 or other types optionally
Driver tubes	6P3S
Input tubes	2 × 6Zh4 or other types optionally e.g. EL8 / ML6 etc.
Rectifier tube	2 × 6D22S for a warmer/darker tone or 1 × 5C3S for a brighter signature (option)
Volume control	ALPS potentiometer (Demograf Audio stepped attenuator optional)
Internal wiring	Proprietary “RareCoreFusion” Alloy wire (other options available)
Special features	Ground Lift switch (selectable ground loop isolation)
Mains	100 / 120 / 230 V — set at order time, plug to match (NEMA, Schuko, BS 1363 / type G)
Weight (with power supply)	From 45 kg / 99 lb
Dimensions	From 450 × 450 × 250 mm
Origin	Made in Kazakhstan by Dmitriy Gubchenko

Options

Circuit

- MkII Single-Ended (classic detailed sound)
- MkII Push-Pull (double the output power, a fuller midrange and bass) · +50%

Input tubes

- 6Zh4 tubes
- EL8 Valvo — for more detailed sound
- AL4 — for heavier bass and midrange
- EF14 — for a more natural midrange, e.g. opera and symphonic music
- ML6 — for more neutral sound

Rectifier tube

- 6D22S — for darker sound
- 5C3S — for brighter sound
- Other Type (on request)

Output tubes

- G-811
- 811 tubes
- 811A tubes
- Other Similar Tube (EU / US)

Power-supply tubes

- Tubes
- Premium Vintage Tubes

Component upgrades

- Premium Capacitors Suite (Duelund)
- Tango, Tamura or Hashimoto transformers and chokes, fitted on request
- Silver AMRG Resistors & Premium Cardas Wiring Kit
- High-End Connectors Suite (e.g. Furutech Top-Tier plugs)
- Solid-core Copper Speaker Connectors
- Premium Solid-core Copper Connectors with Galvanic Gold/Silver Plating
- Integrated Tone Control Block Module / Filter

- Transformer taps for 4 or 16 Ω (additional winding)
- Bi-wiring integration supplement
- Tri-wiring integration supplement
- One additional Analogue RCA Input
- One additional Analogue XLR Balanced Input
- Demograf Audio High-End Swiss-Stepped Pre-Amp (similar to Stevens & Billington TX-103)
- Variable GAIN Control Module
- 4.4 mm Pentaconn Output Termination
- Dedicated STAX Electrostatic Output Interface
- Fully Balanced XLR Amplifier Architecture
- Additional Reserve Matched Pair of low-noise Tubes

Mains inlet, outlets & contacts

- AC Input: Standard Spec — IEC C14 Chassis Input
- AC Input: Heavy-Duty Spec — IEC C20 High-Current Inlet
- AC Output: European Standard — Schuko (Type F)
- AC Output: US / Japan Standard — NEMA 5-15R (Type B)
- AC Output: British Standard — BS 1363 (Type G)
- AC Output: Universal Interface — Direct IEC C13 Outlets
- Contacts: Pure Copper Unplated (Organic & Balanced Tone)
- Contacts: Gold Plated e.g. Furutech FI-09(G) (Warmth & Rich Midrange Texture)
- Contacts: Rhodium Plated e.g. Furutech FI-09(R) (Fast Transients & Fine Detail)

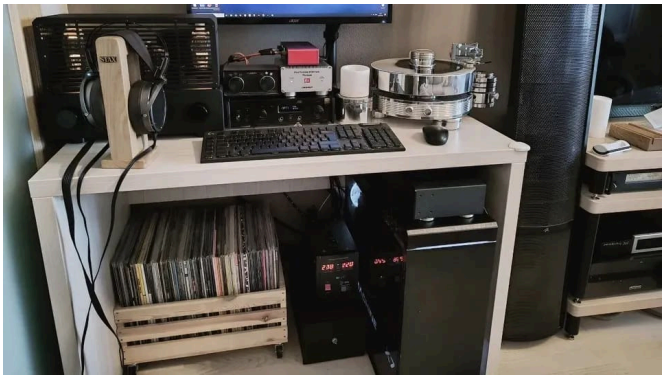
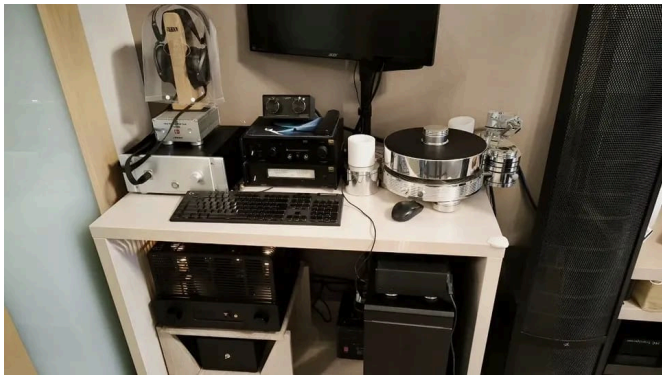
Finish & chassis

- Standard configuration
- Priority build (+50% of the price)
- Precision-Milled Metal Chassis (CNC milling)
- Contoured Bent-Metal Enclosure
- Exotic Hardwood Chassis
- Glass-Integrated Aesthetic
- Premium Wood Inlays & Accents
- Solid-Billet Metal Enclosure
- Advanced Galvanic Finishing
- Custom Dimensions & Form Factor
- Parameter Status Display
- Multifunction Remote Control Suite
- Protective tube cage (child & pet safety)

Regional version

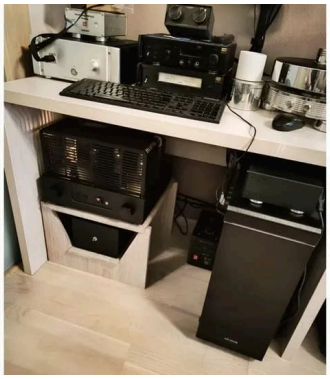
- 230 V — Schuko plug (Europe)
- 120 V — NEMA plug (North America)
- 100 V — NEMA plug (Japan)
- 230 V — BS 1363 / type G plug (UK · Middle East)

Photographs







Questions & answers

Which tubes does the Helios MkII use?

Stock tubes are G-811 output triodes, a 6P3S driver, 6Zh4 input tubes and two 6D22S rectifiers. 811 and 811A tubes can be fitted instead; a reserve matched pair is available.

How is the Helios MkII serviced?

Each unit ships with its own measurement report. The circuit is kept simple and serviceable, and Demograf Audio gear is serviced for as long as parts exist.

How is it delivered?

Shipping and insurance are paid by the buyer and shown as a separate line in your quotation. Every unit is packed for long-distance transport in heavy-duty flight cases and a wooden crate.

Which mains voltage and plug?

Each piece of gear is built for 100 V, 120 V or 230 V mains with the matching plug (NEMA, Schuko or BS 1363 / type G). The voltage is fixed at order time, so tell us where the unit will be used.

How long does the Helios MkII take to build?

Build time is six months or more from the queue deposit, depending on the configuration and the queue; delivery takes from one month after completion. The atelier builds seven instruments a year. A priority build is available for an extra 50% of the price: your unit is moved ahead in the build queue.

Ordering

- Built individually, to order. A 50% deposit places the unit in the build queue.
- Build time is six months or more, depending on the configuration and the queue.
- One-year warranty; after it, paid repair. Every unit ships with its own measurement report.
- Configuration, prices in your currency and the seller for your country: demografaudio.com
- E-mail: shop@demografaudio.com.