

DEMOGRAF AUDIO

Atreus

Fully electrostatic open-baffle loudspeaker: curved and flat 2-micron panels, isobaric electrostatic bass, 20 Hz – 20 kHz

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

Sound

Vocal · acoustic · jazz · blues · symphonic · high-resolution recordings

Atreus is the result of thirteen years of acoustic research: an open-baffle loudspeaker that is electrostatic across the whole range. The treble and midrange come from electrostatic panels, curved and flat, with a 2-micron membrane; the curved panels focus the sound on the listening position. The bass is electrostatic too — six membranes between eight 3 mm steel stators in an isobaric pack, reaching down to 20 Hz with the speed of the panels above. It needs a room of at least 20–25 m² and an amplifier that is comfortable with a 2–4 Ω load.

Compared with: Menelaus (hybrid)

Materials & build

Each loudspeaker weighs about 60 kg, 50 kg of which is the steel stators of the bass section.

- HF/MF panels 180 × 60 × 15 cm, curved and flat
- MF/LF isobaric section 100 × 50 × 10 cm, 20 Hz – 1 kHz
- 5000 V bias from an integrated multiplier
- Optional external analogue crossover and four dedicated amplifier modules

COMPONENT	MANUFACTURER	COUNTRY OF ORIGIN
Electrostatic membranes (2 micron)	Demograf Audio	Own manufacture
Steel stators, 3 mm (8 per bass section)	Demograf Audio	Own manufacture
External analogue crossover (option)	Demograf Audio	Own manufacture
Amplifier modules Class D / AB (option)	Demograf Audio	Own manufacture

Signal path

Input **RCA** → Crossover **External analogue** → Amplification **Class D / AB ×4** → Bias **5000 V** → Panels **ESL + isobaric bass**

Specifications

Transducer type	Full-Range Electrostatic (Open Baffle)
Speaker type	Electrostatic. Passive version: panels only, driven by your amplifier; active version with built-in Class D amplification. The 5,000 V bias supply runs from the mains in both
Number of ways	2 (HF/MF Electrostatic Panels + MF/LF Isobaric Electrostatic Section)
Impedance	2–4 Ω (drops to about 1 Ω at 20 kHz)
Sensitivity	85–86 dB
Overall frequency response	20 Hz – 20 kHz
MF/LF section response	20 Hz – 1,000 Hz
HF/MF section response	600 Hz – 20 kHz
Bias voltage	5000 V (Integrated multiplier system)
Recommended room size	Minimum 20–25 m²
Mains	100 / 120 / 230 V — set at order time, plug to match (NEMA, Schuko, BS 1363 / type G)
Total weight	~60 kg (including 50 kg steel stators)
HF/MF dimensions	180 × 60 × 15 cm
MF/LF dimensions	100 × 50 × 10 cm (Vertically Curved)
Origin	Made in Kazakhstan by Dmitriy Gubchenko

Options

Configuration

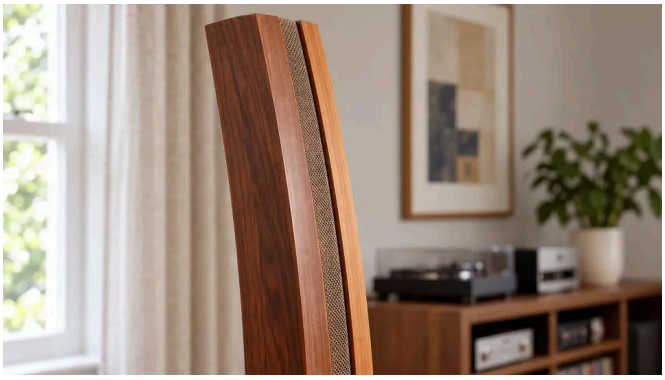
- Standard Edition Active — Active Loudspeaker System
- Premium Edition Active — High-End configuration with premium preamplifier, amplifier and crossover components
- Active Upgrade — Four dedicated Class-D amplifier modules engineered by Demograf Audio
- Premium Active Upgrade — Four dedicated Class-AB amplifier modules engineered specifically for Atreus

- Upgrade — External studio-grade analogue crossover from Demograf Audio
- Option 1 — Passive Transformer Volume Control Preamplifier (TVC)
- Option 2 — Relay-Switched TVC with Remote Control Suite
- Option 3 — Active Solid-State Preamplifier with Remote Control Suite
- Option 4 — Active Tube Preamplifier with Remote Control Suite
- Standard design
- Custom — Individual custom design
- Premium — Custom exotic solid wood finish
- Priority build (+50% of the price)

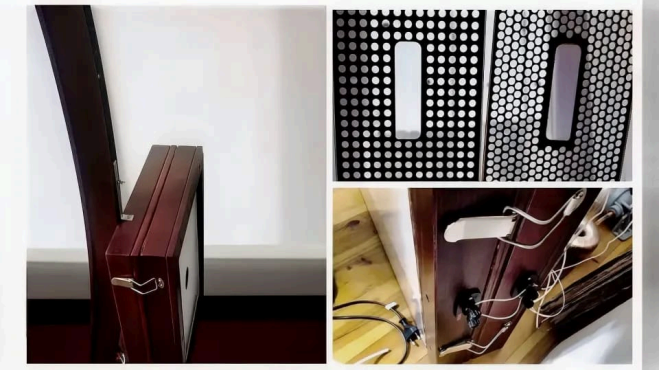
Regional version

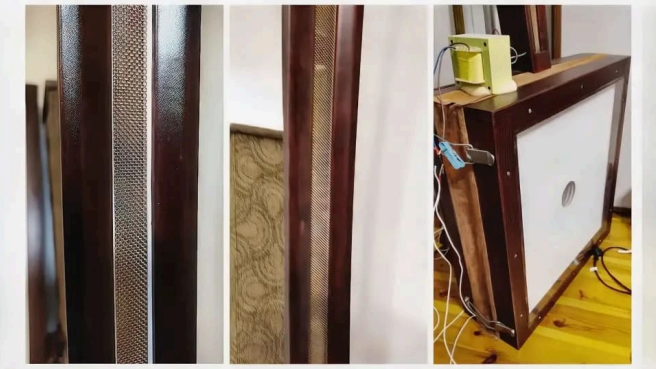
- 230 V — Schuko plug (Europe)
- 120 V — NEMA plug (North America)
- 100 V — NEMA plug (Japan)
- 230 V — BS 1363 / type G plug (UK · Middle East)

Photographs







Questions & answers

Does the Atreus use tubes?

The loudspeaker itself has no tubes; an active tube preamplifier is available as an option.

How is the Atreus serviced?

Loudspeakers need no routine service. Drivers, crossovers and terminals are repaired by the atelier 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 Atreus 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.