

DEMOGRAF AUDIO

Menelaus

Hybrid electrostatic loudspeaker: curved and flat 2-micron ESL panels above 600 Hz, 12–15″ Demograf Audio subwoofer below

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 · high-resolution recordings

Menelaus is the hybrid sibling of the Atreus. Electrostatic panels, curved and flat, with a 2-micron membrane play everything from 600 Hz up, with the speed and freedom from colouration of an almost massless diaphragm. Below 600 Hz a Demograf Audio subwoofer with electromagnet drive takes over, and its level and frequency can be adjusted to the room. An external analogue crossover joins the two sections without the usual 2–5 kHz crossover artefacts.

Compared with: Atreus (fully electrostatic)

Materials & build

The subwoofer cabinet is braced and damped with acoustic felt to keep standing waves and resonances out of the bass. Custom step-up transformers and an integrated 5000 V multiplier bias the electrostatic panels.

- Open-baffle electrostatic panel, 180 × 15 × 5 cm
- Subwoofer 450 × 450 × 450 mm, 12″ or 15″ driver
- Active version with four Class D or Class AB amplifier modules

COMPONENT	MANUFACTURER	COUNTRY OF ORIGIN
Electrostatic panel (2-micron membrane)	Demograf Audio	Own manufacture
Subwoofer driver 12–15″, electromagnet drive	Demograf Audio	Own manufacture
External analogue crossover and preamplifier	Demograf Audio	Own manufacture
Amplifier modules (active version)	Demograf Audio	Own manufacture

Signal path

Input **RCA / terminals** → Crossover **External analogue** → Amplification **Class D ×4**

→ Panel **ESL 600 Hz – 20 kHz** → Subwoofer **12–15″ · 10–600 Hz**

Specifications

Transducer type	Electrostatic + Dynamic Subwoofer
Type of speakers	Electrostatic. Passive version: no built-in amplification, 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 + Dedicated Subwoofer)
Subwoofer inputs	RCA / speaker binding posts (10 kΩ input impedance)
Impedance	2–4 Ω (drops to about 1 Ω at 20 kHz)
Sensitivity	85–86 dB
Overall frequency response	20 Hz – 20 kHz
Subwoofer response	10 Hz – 600 Hz
HF/MF section response	600 Hz – 20 kHz
Subwoofer driver	12–15 inch Demograf Audio Subwoofer
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	~50 kg
HF/MF dimensions	180 × 15 × 5 cm
Subwoofer dimensions	450 × 450 × 450 mm
Origin	Made in Kazakhstan by Dmitriy Gubchenko

Options

Configuration

- Standard Edition Active — Active Loudspeaker System
- Premium Edition Active — Premium subwoofer, preamplifier, amplifier and crossover components
- Upgrade to Atreus Fully Electrostatic Loudspeakers

- Four dedicated Class-D amplifier modules engineered specifically for Menelaus by Demograf Audio
- Four dedicated Class-AB amplifier modules engineered specifically for Menelaus
- External studio-grade analogue crossover from Demograf Audio
- Passive Transformer Volume Control Preamplifier (TVC)
- Relay-Switched TVC Preamplifier with Remote Control Suite
- Active Solid-State Preamplifier with Remote Control Suite
- Active Tube Preamplifier with Remote Control Suite
- Dual-Mode Relay-Switched TVC with Switchable Active Solid-State Stage
- Dual-Mode Relay-Switched TVC with Switchable Active Tube Stage
- Premium 12 inch Demograf Audio Subwoofer
- Premium 15 inch Demograf Audio Subwoofer
- Analogue Filter with Precision LF Tuning
- Individual Custom Design
- Custom Exotic Solid Wood
- 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

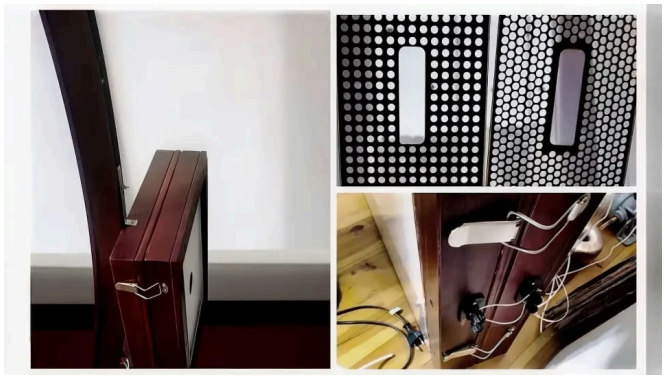












Questions & answers

Does the Menelaus use tubes?

The loudspeaker itself has no tubes. In the full system an active tube preamplifier can be chosen as the volume control.

How is the Menelaus 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 Menelaus 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.