

DEMOGRAF AUDIO

Orpheus

Three-way floor-standing loudspeaker with AER drivers and a crossover, 103 dB

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

Sound

Vocal and acoustic music · jazz · blues · symphonic

Orpheus is a three-section loudspeaker: separate low-, mid- and high-frequency sections per channel with AER drivers, joined by a crossover. With 103 dB sensitivity it comes fully alive on a few watts, which is why it is usually paired with single-ended triode amplifiers. Voices and acoustic instruments come through with natural timbre and an open midrange, while the treble stays smooth. The enclosure type — aperiodic, open baffle, sealed, labyrinth or bass reflex — is chosen for the listening room before the build starts.

Materials & build

Each cabinet is built by hand and finished in walnut veneer with maple inlays as standard; any other finish is made to order. Internal wiring runs from the terminals through the crossover to the drivers, and the enclosure is damped with natural acoustic felt.

- AER drivers in three sections: low, mid and high frequencies (BD-1 / BD-2 / BD-3 and field-coil versions on request)
- Optional Demograf Audio electromagnets for the drivers
- Bi-amping supported in multi-way versions

COMPONENT	MANUFACTURER	COUNTRY OF ORIGIN
AER BD-series drivers, three sections (LF / MF / HF)	AER	United Kingdom
Optional supertweeter T500A Mk III	Fostex	Japan
Internal wiring: Proprietary “RareCoreFusion” Alloy	Demograf Audio	Own manufacture
Speaker terminals	Demograf Audio	Own manufacture
Damping	Natural acoustic felt	—

Signal path

Input **Terminals** → Wiring **Proprietary “RareCoreFusion” Alloy** → Crossover **Three sections (LF / MF / HF)** → Driver **AER BD series** → Enclosure **Aperiodic**

Specifications

Placement	Floor-standing
Number of ways	3-way (LF / MF / HF)
Impedance	8 Ω
Sensitivity	103 dB (1 W / 1 m)
Drivers	AER BD series, three sections (LF / MF / HF); other AER series available optionally
Crossover	Three sections: LF / MF / HF
Speaker terminals	Demograf Audio
Internal wiring	Proprietary “RareCoreFusion” Alloy wire
Internal damping	Natural acoustic felt
Acoustic design	Aperiodic Enclosure / Open Baffle / Sealed Box / Labyrinth / Bass Reflex
Standard configuration	Plywood/MDF cabinet; AER drivers in three sections (LF / MF / HF); crossover; terminals; internal wiring; internal acoustic felt
Top configuration	LF driver with iron core inductor; MF driver with large capacitor; HF driver with small capacitor
Colour / finish	Any (Available upon request)
Weight	From 50 kg per speaker
Dimensions (W × D × H)	900 × 700 × 1500 mm
Origin	Made in Kazakhstan by Dmitriy Gubchenko

Options

Driver

- AER BD-1
- AER BD-1 with custom Electromagnets
- AER BD-2
- AER BD-2 with custom Electromagnets

- AER BD-3
- AER BD-3 with custom Electromagnets

Number of ways

- 2-Way Loudspeaker with Full-Range & HF Supertweeter
- 3-Way Loudspeaker (Dedicated Low, Mid, High)
- Multi-Way Loudspeaker (4-Way and beyond)

Amplifier type

- Passive Loudspeaker System
- Active Loudspeaker System with Class-A Amplification
- Active Loudspeaker System with Class-AB Amplification
- Active Loudspeaker System with Class-D Amplification

Bi-wiring / Bi-amping

- Bi-wiring
- Tri-wiring
- Bi-amped Active System: Class-D for Mid-High and Low
- Tri-amped Active System: Class-D discrete for HF, MF, LF
- Multi-amped Active System: Class-D for 4+ discrete bands

Component upgrades

- Fostex Supertweeters T500A Mk III
- Horn-Loaded Drivers
- Pure Silver Internal Wiring
- Custom Speaker Grilles
- Custom Speaker Podiums / Stands
- AMRG Resistors & Cardas Solder / Wiring Kit
- Premium Capacitors
- Solid-core Copper Speaker Terminals
- Analogue Filter with Precision HF / MF / LF Tuning

Finish & chassis

- Individual Custom Design
- Walnut Veneer with Maple Inlays
- Custom Exotic Solid Wood Cabinet
- Priority build (+50% of the price)

Photographs








Questions & answers

Does the Orpheus use tubes?

Orpheus has no tubes. It is designed for low-power amplifiers: single-ended triode amplifiers of 3–10 W drive it fully.

How is the Orpheus 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?

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

Which mains voltage and plug?

The standard Orpheus is passive and does not connect to the mains. With the AER BD-1 field-coil option, the electromagnets are energised from the mains through a separate supply, built for your mains voltage.

How long does the Orpheus 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.