

DEMOGRAF AUDIO

Bellerophon

Class AB amplifier on Toshiba bipolar transistors with a DAC of your choice, from 25 W

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

Sound

All genres — open, detailed and dynamic

Bellerophon puts a DAC and a Class AB amplifier in one classic chassis, so a complete source-and-amplifier system needs no separate boxes. The output stage uses Toshiba bipolar transistors, known for linearity and thermal stability; they drive hard-to-drive planar headphones and full-size loudspeakers with the same ease. The DAC is chosen at order time — from the stock Cirrus Logic CS4397 to Philips multibit, Burr-Brown, R-2R or programmable-logic modules. Power transformers are wound to our specification for a quiet background and wide dynamic headroom.

Materials & build

Stock build: black metal chassis, S/PDIF coaxial and USB (Amanero) inputs, RCA, 6.3 mm, XLR 4-pin and loudspeaker outputs, switchable ground lift.

- Output power 25 W per channel; 50 / 100 / 150 W optional
- DAC: CS4397 stock; TDA1540/1541/1547, PCM63, PCM1704, R-2R, programmable-logic optional
- ALPS volume control or Demograf Audio attenuator

COMPONENT	MANUFACTURER	COUNTRY OF ORIGIN
Output transistors (bipolar)	Toshiba	Japan
DAC chip CS4397 (stock)	Cirrus Logic	USA
USB interface	Amanero	Italy
Power transformers	Demograf Audio (custom-wound)	or analog by Hashimoto / Tango / Tamura
Volume control	ALPS	Japan

Signal path

Input **USB · S/PDIF** → Converter **CS4397** → Volume **ALPS** → Power stage **Class AB · Toshiba** → Output **Speakers · phones**

Specifications

Use	Universal: loudspeakers and headphones
Output power	From 25 W per channel (optionally 50 / 100 / 150 W)
Device type	Combined DAC & Solid-State Amplifier
Amplifier class	Class AB
Analogue inputs	Unbalanced RCA | Optional: Balanced XLR
Headphone outputs	6.3 mm TRS, 4-Pin XLR | Optional: 4.4 mm, 2.5 mm, Electrostatic
Loudspeaker outputs	Standard binding posts (Demograf Audio binding posts optional)
Load impedance	Stable into 4–16 Ω loads
Transistors	Premium Toshiba Bipolar Transistors
Digital inputs (DAC)	S/PDIF Coaxial, USB (Amanero) | Optional: BNC, I2S
Volume control	ALPS (optionally — Custom Attenuator by Demograf Audio)
Internal wiring	Proprietary “RareCoreFusion” Alloy wire (other options available)
Special features	Ground Lift Switch (Defeatable Grounding)
Mains	100 / 120 / 230 V — set at order time, plug to match (NEMA, Schuko, BS 1363 / type G)
Weight	From 15 kg / 33 lb
Dimensions (W × D × H)	From 450 × 400 × 200 mm
Origin	Made in Kazakhstan by Dmitriy Gubchenko

Options

Output power

- 25 W per channel
- 50 W per channel
- 100 W per channel
- 150 W per channel

DAC

- Cirrus Logic CS4397
- Premium R-2R Resistor Ladder DAC Module
- Demograf Audio programmable-logic module
- Philips TDA1540
- Philips TDA1541
- Philips TDA1547
- Burr-Brown PCM63
- Burr-Brown PCM1704

Component upgrades

- Premium Capacitors Suite (Duelund etc.)
- Custom transformers and chokes
- AMRG Resistors & Premium Cardas Wiring Kit
- Exotic Top-Tier Connectors Suite
- Solid-core Copper Speaker Connectors
- Multi-DAC Topology
- Premium Solid-core Copper Connectors with Galvanic Gold/Silver Plating
- Integrated Tone Control Block Module / Filter
- Bi-wiring integration supplement
- Tri-wiring integration supplement
- Demograf Audio Swiss-Stepped Pre-Amp Circuit
- Variable GAIN Control Module
- 4.4 mm Pentaconn Output Termination
- Dedicated STAX Electrostatic Output Interface
- Fully Balanced XLR Amplifier Architecture
- Upgraded External Power Supply (PSU)
- ALPS Volume Control
- One additional Digital S/PDIF Coaxial Input
- One additional Digital BNC Input
- One additional Digital AES/EBU Input
- One additional Master Clock Input
- Raspberry Pi 5 Streamer inside
- Phase Control
- Low-pass filter (LPF)
- One additional Digital TOSLINK (Optical) Input
- One additional Digital I2S (HDMI Type) Input

- One additional Analogue RCA Output
- One additional Analogue XLR Balanced Output
- One additional Analogue RCA Input
- One additional Analogue XLR Balanced Input

Mains inlet, outlets & contacts

- AC Input: 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)

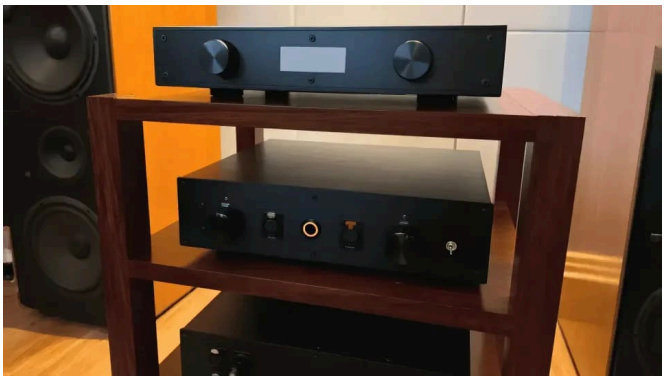
Finish & chassis

- 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

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

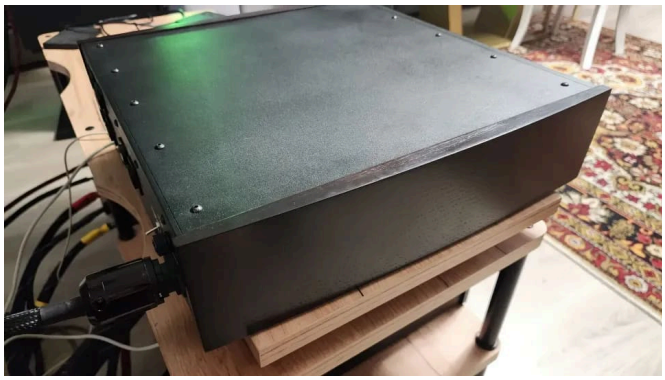












Questions & answers

Does the Bellerophon use tubes?

Bellerophon has no tubes — it is a solid-state Class AB design. A tube DAC can be paired with it if you want tube colour upstream.

How is the Bellerophon 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 Bellerophon 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.