

DEMOGRAF AUDIO

Prometheus

Programmable-logic DAC with a window filter — native DSD1024 and PCM 32/768

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

Sound

Studio-quality and high-resolution recordings of any genre

Prometheus is the newest Demograf Audio converter, built on a programmable-logic chip running Demograf Audio software. PCM is converted to DSD on the chip and passed through a logic-based “window filter”, so there is no LC output filter and none of the phase shift it brings. The result is fast, detailed and natural, with a bandwidth of 1 Hz – 50 kHz. The recommended output stage is solid-state; a tube stage on AL4, EL8, EF14 or ML6 is available.

Materials & build

Hand-assembled in a black metal chassis with galvanically isolated transformers and Proprietary “RareCoreFusion” Alloy wiring.

- Inputs: S/PDIF coaxial, USB (Amanero), I2S (HDMI)
- PCM up to 32-bit / 768 kHz; DSD1024 via I2S, DSD512 via USB
- Output 2 V (4 V optional), RCA; XLR optional
- Ground lift switch

COMPONENT	MANUFACTURER	COUNTRY OF ORIGIN
Programmable-logic processor with Demograf Audio software	Demograf Audio	Own manufacture
USB interface	Amanero	Italy
Power transformers (galvanically isolated)	Demograf Audio (custom-wound)	or analog by Hashimoto / Tango / Tamura
Output tubes (option) AL4 / EL8 / EF14 / ML6	NOS, selected	US / EU / UK (NOS) / Other Vintage
Internal wiring: Proprietary “RareCoreFusion” Alloy	Demograf Audio	Own manufacture

Signal path

Input **USB · I2S · S/PDIF** → Processing **Programmable logic** → Filter **Window filter** → Output stage **Solid-state / tube** → Output **RCA · 2 V**

Specifications

Device type	Professional programmable-logic Digital-to-Analogue Converter
Core technology	Custom programmable-logic processor running proprietary software
Filter architecture	Proprietary Logic-Based “Window Filter” (PCM-to-DSD, no LC filters)
Digital inputs	S/PDIF Coaxial, USB (Amanero), I2S (HDMI Type)
Analogue outputs	RCA (Optional: Balanced XLR)
Output voltage	2 V (customisable)
Frequency range	1 Hz – 50 kHz
PCM support	Up to 32-bit / 768 kHz via HDMI / USB
DSD support	Up to DSD1024 via HDMI / DSD512 via USB Amanero
Rectifier tube (optional)	5Ts4M (5Y3) and equivalents
Output tubes (optional)	EF14 / EL8 / AL4 / ML6 or equivalents
Transformers	Galvanically isolated
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 7 kg (varies by metal choice)
Dimensions	From 330 × 250 × 120 mm (Customisable)
Origin	Made in Kazakhstan by Dmitriy Gubchenko

Options

Output stage

- Solid-State Output (recommended)
- AL4 Vacuum Tube Output
- EL8 Vacuum Tube Output

- EF14 Vacuum Tube Output
- ML6 Vacuum Tube Output
- Tube-Switching Module Upgrade

Rectifier tube

- Solid-State Rectifier (recommended)
- 5Ts4M
- 5Y3
- Other Type (on request)

Output voltage

- 2 V
- 4 V
- Other (on request)

Component upgrades

- Premium Capacitors
- Custom Transformers & Chokes
- AMRG Resistors & Cardas Wiring Kit
- Top Connectors Suite
- Multi-DAC Topology
- Upgraded External Power Supply (PSU)
- Vintage Tubes
- ALPS Volume Control
- Demograf Audio Swiss-Stepped Pre-Amp
- Integrated Class-A Amplifier
- Integrated Class-D Amplifier
- Integrated Tone Control Block Module / Filter
- One additional Digital S/PDIF Coaxial Input
- One additional Digital AES/EBU Input
- One additional Master Clock Input
- Raspberry Pi 5 Streamer inside
- One additional Digital BNC Input
- One additional Digital TOSLINK (Optical) Input
- One additional Digital I2S (HDMI Type) Input
- One additional Analogue RCA Output

- One additional Analogue XLR Balanced Output
- 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

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

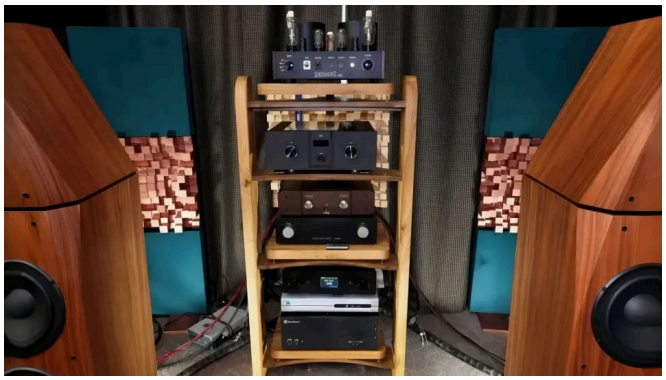












Questions & answers

Does the Prometheus use tubes?

Prometheus is solid-state by default. If you choose the tube output stage (AL4, EL8, EF14 or ML6) or a 5Ts4M rectifier, those tubes are selected before fitting. Tubes are consumables and are not covered by the warranty.

How is the Prometheus 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 Prometheus 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.