



MERASON DAC 1

Operating Manual

niedal audio lab, Switzerland

Thank you for purchasing the MERASON DAC 1 digital-to-analog converter! The aim of the multi-year development of the device was to meet the highest demands on sound quality in order to make an authentic listening experience possible. We believe, and others confirm, that with the DAC 1 we have achieved this.

So that you can enjoy the elegant appearance even after many years, clean the device carefully with a cotton cloth lightly moistened with soap and water. Be sure to unplug the appliance from the mains before cleaning. Avoid solvents such as alcohol, acetone, petrol and the like.

Worb, July 2020

Notes on safety and installation

For your own safety, observe the following points:



This symbol indicates that defective components may only be replaced by components of exactly the same type, and only by qualified personnel, and that the instructions supplied with this device contain important information on operation and maintenance.



This symbol indicates that high voltages are present inside the unit and that there is a risk of fatal electric shock when the unit is opened.

Keep this information in a safe place. If you pass on the device to a third party, add these notes.

The following minimum values must be observed to ensure adequate ventilation: Distance to the top 5 cm, to the back 10 cm, at each side 5 cm.

Keep the unit away from heat sources.

The unit is designed for operation in a moderate climate.

The upper side serves to dissipate heat and must not be covered with insulating materials such as magazines, textiles, etc.

The unit may only be operated indoors.

Do not expose the unit to moisture, dripping or splashing water.

Do not place vases, burning candles, etc. on the unit.

The device complies with protection class I and may only be connected to a mains socket with a protective conductor connection. Use the enclosed mains cable for connection.

The specified mains voltage is noted on the back of the device.

The unit is switched on and off completely by pressing the switch on the front left (label "Power").

Repairs and maintenance may only be carried out by qualified personnel.

Installation

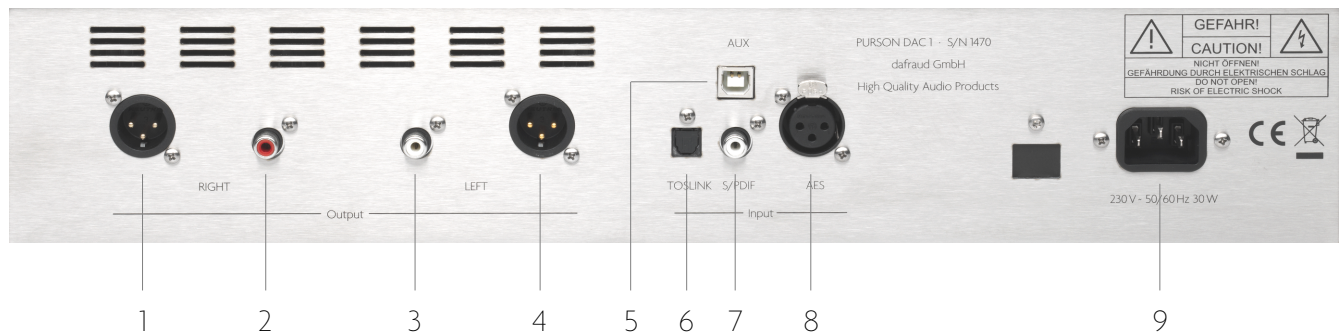
The DAC 1 develops a certain amount of waste heat during operation, so care must be taken to ensure adequate ventilation. The following minimum distances must be observed:

Distance upwards: 5 cm.

Distance to the rear: 10 cm.

Lateral distance: 5 cm.

Connectors



- 1 Balanced analog output right channel.
- 2 Unbalanced analog output right channel.
- 3 Unbalanced analog output left channel.
- 4 Balanced analog output left channel.
- 5 AUX digital input, standard USB Audio Class 2.0.
- 6 Optical digital input (TOSLINK).
- 7 Coax digital input (S/PDIF).
- 8 Balanced digital input (AES).
- 9 Mains input.

Operating and Display Elements



- 1 On/off switch.
- 2 Lit when the input signal can be processed correctly.
- 3 Lit when an existing USB signal is detected.
- 4 Lights up when coax input is selected.
- 5 Lights up when balanced input is selected.
- 6 Lights up when optical input is selected.
- 7 Lights up when USB input is selected.
- 8 Input selector switch.

Press the on/off switch to put the unit into operation or disconnect it from the mains.

The inputs are selected by pressing the input selector switch.

Specifications

Power Supply

230 V or 115 V (one of them) AC / 50 or 60 Hz, 30 W

Operation

Ambient temperature 10°C to 30°C, 50°F to 86°F

Humidity max. 80 %, non-condensing

During operation, the device heats up by approx. 20 K compared to the ambient temperature.

Input format

44.1 kHz@16 bit, 44.1 kHz@24 bit

48 kHz@16 bit, 48 kHz@24 bit

88.2 kHz@24 bit

96 kHz@24 bit

176.4 kHz@24 bit (USB)

192 kHz@24 bit

Dimensions

Width: 45 cm, 17.7 In,

Height: 10 cm, 3.9 In,

Depth: 29 cm, 11.4 In,

Weight: 8 kg, 17.6 lbs (11 kg, 24.3 lbs with stainless steel front).

Declaration of Conformity

We,

dafraud GmbH, Bangertenstrasse 865, CH-3076 Worb,

declare that the product

Digital Analog Converter (name)
MERASON DAC 1 (model)

to which this declaration relates is in conformity with the following relevant Union harmonisation legislation:

Directive 2014/30/EU relating to electromagnetic compatibility,

Directive 2014/35/EU relating to electrical equipment designed for use within certain voltage limits,

and that the equipment is in conformity with the following harmonised standards and/or other normative documents or technical specifications:

EN 60065,

EN 55022,

EN 61000-3-2,

EN 61000-3-3,

EN 61000-4-11,

EN 60204-1/EN 60038,

EN 61000-4-4,

EN 61000-4-5,

EN 61000-4-2^{*)},

EN 61000-4-6.

^{*)} Electrostatic Discharge: For quality reasons high-end audio gear are normally not equipped with filters in the signal path. This is why the backpanel as well as the shielding of the connectors are more sensitive to interferences. The product fulfills the C criterion with interferences of 4 kV and 8 kV and has to be switched off and on in case of incidence.

Worb, 12 April 2019

Place and date of issue



Daniel Frauchiger, CEO