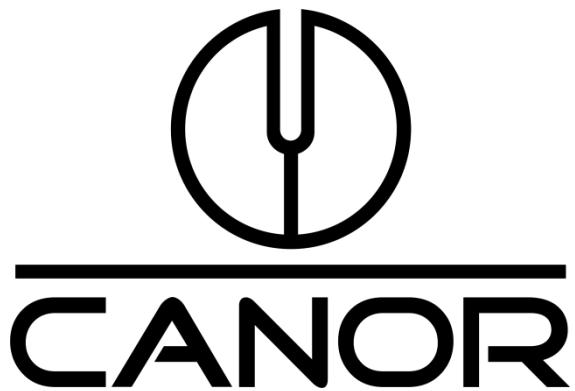


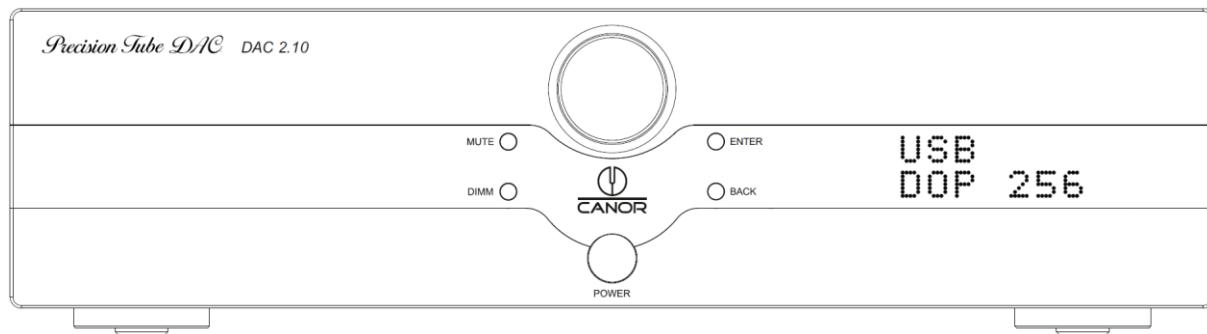
# Canor DAC 2.10 USER MANUAL





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### CANOR DAC 2.10 tube D/A converter user guide



Dear music lover,

Thank you for purchasing our CANOR DAC 2.10 tube D/A converter.

To preserve and maintain the best characteristics of your D/A converter, we recommend you carefully read the following lines.

**Canor DAC 2.10** includes MQA (Master Quality Authenticated) technology which enables you to playback MQA audio files and delivering the sound of the original master recording.  
Visit [mqa.co.uk](http://mqa.co.uk) for more information.

### **Operating instructions:**

Before placing your new appliance into operation please read these operating instructions carefully.

1. Read the instructions - all safety information and instructions should be read before using the appliance.
2. Please keep these operating instructions for future reference.
3. Follow the instructions - all the security and user instructions should be followed.
4. Water and moisture – the DAC 2.10 should not be placed near water, for example near baths, swimming pool, kitchen sink, etc.
5. Accessories - do not use accessories not recommended by the manufacturer.
6. Location - do not place equipment on unstable surface. The device may fall, which may cause serious injuries to children or adults, as well as damage to the appliance. Use only pads or stands recommended by the manufacturer or sold to dealers at the same time with this device. Any location of the device should be in accordance with the manufacturer's instructions and only accessories recommended by the manufacturer should be used.
7. Ventilation – appliance should be placed in a place which guarantees a proper airflow. This means that it must not lie on the sofa or upholstered furniture. When in operation it must not be covered. It would then prevent proper airflow around the vent holes of device.
8. Heat - ensure the appliance is away from any sources of heat(direct sunlight, electric stove, etc.). The distance from the rear wall of the device may not be less than 20 cm, and 20 cm above the area of the compact disc player may not be any obstacle. Alongside the equipment should be ensured min. distance of 20 cm from other objects.
9. Power source - the device must be connected only to a power supply, for which it is designed.
10. Power cord - it is necessary to pay particular attention to a power cord, it must be positioned so as to avoid stepping on it and to ensure it is protected against mechanical damage.
11. The longer the period during when you do not use the DAC 2.10 you should disconnect the power cord from the mains supply, or at least turn off the main power switch located on the back.
12. Subjects containing liquid -do not place these objects (vases, flower pots), so that they can fall on the device, possibly a fluid could leak out of them on the appliance.
13. Damage requiring service - equipment should be repaired only by qualified service once:
  - a) Power cord is damaged
  - b) The device fell into water or was poured
  - c) The device was exposed to rain
  - d) The device works incorrectly
  - e) The device fell to the ground or is otherwise mechanically damaged.
14. Repairs - all repairs must be entrusted to qualified service.
15. General warning - use the device only in accordance with the instructions.

**The manufacturer declines any liability should these safety measures not be observed.**

**To help you avoid an electric shock, do not expose the DAC 2.10 to rain or moisture!**



### **Delivery content:**

1. Shipping packaging
2. CANOR DAC 2.10 D/A converter
3. Power cord
4. Remote control (containing CR2032 batteries)
5. User guide

### **Caution!**

The Waste Electrical and Electronic Equipment Directive - Regulation of the European Union 2002/96/EC governing the issue of separate waste collection.

This device may not be disposed of in unsorted municipal waste. Devolve the appliance upon a collection centre for recycling and disposal of electrical and electronic equipment waste. Correct disposal of waste does not cause negative impacts on the environment and human health. You will thus contribute to protection of the environment.

### **Remote Control**

CR2032 battery is installed inside your remote control and one more spare battery is supplied.

Do not expose the sensors of your remote control to direct sunlight or to other strong light sources.

Remote control operates at an angle of 60 ° to about 5 meters. Aim your remote control at sensor on the device. There may not be any obstacles in the way between sensor and remote control.

If the appliance is placed behind glass, it may result in shortening the operating distance of a remote control (according to the colour and strength of glass).

Keys on the remote control have the same function as the keys at the front panel of the device.

### **Remote Control Buttons:**

**ON/OFF** = DAC 2.10 turning on and off

**INPUT -** = decrement selected input

**INPUT +** = increment selected input

**FILTER -** = decrement digital filter or enable/disable analogue filter in DSD mode

**FILTER +** = increment digital filter or enable/disable analogue filter in DSD mode

**UPSAMPLE** = enable/disable up-sampling function

**RECLOCK** = enable/disable re-clocking function

**THEME** = switch display theme

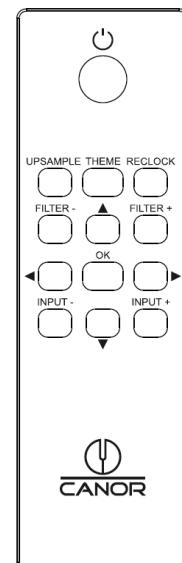
**OK** = enter to the menu/submenu or activate selected item

**ARROW UP** = enter to the menu or move up in the menu

**ARROW DOWN** = enter to the menu or move down in the menu

**ARROW LEFT** = enter to the menu/submenu or activate selected item

**ARROW RIGHT** = return from previous submenu or return to main view



### **Front Panel Buttons:**

**MUTE** = mute/unmute audio output

**DIMMER** = set desired brightness of display

**ENTER** = enter to the menu/submenu or activate selected item

**BACK** = return from previous submenu or return to main view

**ENCODER KNOB** = rotate to browse and select item or push encoder to enter to the menu/submenu or activate selected item



## **DAC 2.10 Menu:**

**INPUTS** = direct access to the inputs

### **AUDIO SETTINGS**

**Reclocking** = technology that synchronizes digital audio signals with master clock

**Upsampling** = all data from digital inputs are up-sampled to 352,8/384kHz sampling frequency

**Analog Filter** = enable/disable 25kHz low pass filter or automatically enable low pass filter for DSD64

**Digital Filters** =

Filter	Filter name	Remarks
1	Linear Phase Fast	Pre and post echo
2	Linear Phase Slow	Minimal echo, original sound
3	Minimum Phase Fast	No pre echo, more post echo than linear phase filters
4	Minimum Phase Slow	No pre echo, more post echo,
5	Apodizing Fast	Pre and post echo
6	Corrected Phase Fast	Low pre echo, more post echo than filters 1,2 and 5
7	Brick Wall	Pre and post echo, no phase shift
8	Oversampling Bypass	The oversampling FIR filter is bypassed and source data are up-sampled to 352,8/384kHz

*Note: When playing MQA files, user's filter setting is not active, MQA filter is always used. MQA filter is custom made for our DAC to ensure best possible MQA experience.*

### **SYSTEM SETTINGS**

**Theme** = switch Classic or Simple theme

**Brightness** = adjust display brightness or turn it off

**Factory reset** = set all to default settings

**About** = license and software versions information

### **DEVICE CONNECTORS**

#### **Analog outputs**

The unit offers following analogue output sockets:

- = 1 pair of XLR connectors for balanced output
- = 1 pair of RCA connectors for unbalanced output

#### **USB input**

Connect the USB-B input of the unit to a free USB-A socket on your computer.

#### **S/PDIF inputs** (four digital inputs available)

- = Optical 1 and Optical 2 toslink inputs
- = Coaxial unbalanced RCA input
- = AES/EBU balanced XLR input.

#### **Important:**

We recommend connecting the digital inputs and outputs when the device is switched off.

**Technical specifications:**

Frequency Response at Fs=192kHz:	-/+0,03dB at 20Hz to 20kHz -0,2dB/+0,03 at 10Hz to 50kHz
THD 20Hz to 20kHz at 0dBFS:	< 0.01%
THD+N 20Hz to 20kHz at 0dBFS:	< 0,01%
THD+N 1kHz at 0dBFS:	> 0.008%
THD+N 1kHz at -3dBFS:	> 0.006%
THD+N 1kHz at -6dBFS:	> 0.004%
 XLR output:	
Output voltage at 0dBFS:	4V RMS
SNR 20Hz to 20kHz at 0dBFS:	< 108dB
SNR A-wt. 20Hz to 20kHz at 0dBFS:	< 111dB
Crosstalk 10kHz at 0dBFS:	> -117dB
 RCA output:	
Output Voltage at 0dBFS:	2V RMS
SNR 20Hz to 20kHz at 0dBFS:	< 95dB
SNR A-wt. 20Hz to 20kHz at 0dBFS:	< 98dB
Crosstalk 10kHz at 0dBFS:	> -104dB
 Analog outputs:	
Analog balanced output:	2 x XLR connector
Analog unbalanced output:	2 x RCA connector
Output buffer:	Balanced tube
Tubes:	4 x 6922
 Digital Inputs:	
Supported PCM bit depth:	16/24 bit
Supported PCM sampling rates:	44,1k/48k/88,2k/96k/176,4k/192k/352,8k/384k/705,6k/768kHz
DSD over PCM support:	DoP DSD 64/128/256
DSD Native support:	Native DSD 64/128/256/512
MQA support:	Full MQA decoding by hardware from all digital inputs
USB data transfer:	Asynchronous USB 2.0 Audio Class 2 standard
S/PDIF Optical input:	2 x (24bit / 192kHz)
S/PDIF Coaxial input:	1 x (24bit / 192kHz)
AES/EBU input:	1 x (24bit / 192kHz balanced)
Digital to Analogue converter:	2 x ESS9038Q2M (dual mono)
Filter settings:	8 x Digital Filter
 Display:	TFT module , IPS technology
Power consumption:	38W, <0,5W in standby
Power supply:	230 V, 50 Hz / 60 VA
Dimensions W x H x D:	435 x 120 x 420 mm
Weight:	11 kg

**DAC 2.10 maintenance**

For cleansing use a dry piece of a fine linen cloth. In case of large pollution, moisturize the cloth with a detergent solution. Do not use ragged materials (sand for washing dishes), alcohol, gasoline, dissolvent or other chemicals!



## **WARRANTY CONDITIONS:**

The warranty period for this appliance is 24 months, calculated from the date of purchase. The warranty applies to the first owner of the product only. Moreover, the warranty only applies if an original proof of purchase and acknowledged certificate of warranty can be furnished. The warranty covers defects in materials and labor, but does not cover misuse, unauthorized modifications, and external causes such as acts of nature.

The manufacturer accepts no responsibility for damage caused by not adhering to these instructions for use. Modification or changes to any part of the product by unauthorized persons release the manufacturer from any liability over and above the lawful rights of the customer.

**Caution! There are no user serviceable parts inside your CANOR DAC 2.10 tube D/A converter!**

### **Service**

Should you encounter a problem which you are not able to alleviate or identify, please contact your distributor for further advice.

### **Copyright, trademarks**

The information was correct at the time of going to press. The manufacturer reserves the right to make changes to the technical specification without prior notice as deemed necessary to uphold the ongoing process of technical development.

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Waste from Electrical and Electronic Equipment (WEEE): This directive mandates the collection and recycling of electronics and component materials in order to reduce the amount going to landfills. Outside North America, when the user decides to discard this product, it must be sent to a separate collection facility for recycling. Please contact your point of purchase for more details.

### **Declaration of Conformity**

We, declare under our responsibility that the product is in conformity with the provisions of Directives:

2014/35/EU including amendments

2014/30/EU including amendments

2014/53/EU including amendments

The following harmonised standards were applied:

Health: EN62479:2010

Safety: EN60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013, EN62368-1:2014/A11:2017, EN61558-1:2005/A1:2009, EN61558-2-16:2009/A1:2013

EMC: EN301489-1 V2.2.0: 2017-03, EN301489-17 V3.2.0:2017-03, EN55032:2015, EN55035:2017, EN61000-3-2:2014, EN61000-3-3:2013

Radio Spectrum: EN300328 V2.1.1 (2016-11)

This guide was produced by: Canor spol s r. o.

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### **European Community Directives**

This product is designed and manufactured in order to comply with existing laws of the European Community.



