

# VEO-DACS4

AUDIO MANAGEMENT DEVICES

*HDMI 2.0 Audio Embedder and Extractor*



## USER MANUAL



# INDEX

|                                               |          |
|-----------------------------------------------|----------|
| <b>1. IMPORTANT REMARK.....</b>               | <b>3</b> |
| <b>2. IMPORTANT SAFETY INSTRUCTIONS .....</b> | <b>3</b> |
| <b>3. IMPORTANT NOTE.....</b>                 | <b>5</b> |
| <b>4. INTRODUCTION.....</b>                   | <b>5</b> |
| <i>4.1. Main Features .....</i>               | <i>5</i> |
| <b>5. PACKAGE CONTENTS.....</b>               | <b>5</b> |
| <b>6. PANELS DESCRIPTION.....</b>             | <b>6</b> |
| <i>6.1. Front Panel.....</i>                  | <i>6</i> |
| <i>6.2. Rear Panel .....</i>                  | <i>6</i> |
| <b>7. CONNECTING DEVICES .....</b>            | <b>7</b> |
| <i>7.1. Connections and Operation .....</i>   | <i>7</i> |
| <b>8. MECHANICAL DIAGRAM .....</b>            | <b>8</b> |
| <b>9. TECHNICAL SPECIFICATIONS.....</b>       | <b>9</b> |



## 1. IMPORTANT REMARK



WARNING: SHOCK HAZARD - DO NOT OPEN

AVIS: RISQUE DE CHOC ÉLECTRIQUE - NE PAS OUVRIR



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**WARNING (If applicable):** The terminals marked with symbol of “” may be of sufficient magnitude to constitute a risk of electric shock. The external wiring connected to the terminals requires installation by an instructed person or the use of ready-made leads or cords.

**WARNING:** To prevent fire or shock hazard, do not expose this equipment to rain or moisture.

**WARNING:** An apparatus with Class I construction shall be connected to a mains socket-outlet with a protective earthing connection.

## 2. IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer’s instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.



9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and at the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Unplug the apparatus during lightening sorts or when unused for long periods of time.
13. Refer all servicing to qualified personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
14. Disconnecting from mains: When switching off the POWER switch, all the functions and light indicators of the unit will be stopped, but fully disconnecting the device from mains is done by unplugging the power cable from the mains input socket. For this reason, it always shall remain easily accessible.
15. Equipment is connected to a socket-outlet with earthing connection by means of a power cord.
16. The marking information is located at the bottom of apparatus.
17. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on apparatus.

**NOTE:** *This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.*



**WARNING:** This product must not be discarded, under any circumstance, as unsorted urban waste. Take to the nearest electrical and electronic waste treatment centre.

**NEEC AUDIO BARCELONA, S.L.** accepts no liability for any damage that may be caused to people, animal or objects due to failure to comply with the warnings above.



### 3. IMPORTANT NOTE

Thank you for choosing our Ecler **VEO-DACS4 HDMI 2.0 Audio Embedder and Extractor!**

It is **VERY IMPORTANT** to carefully read this manual and to fully understand its contents before any connection in order to maximize your use and get the best performance from this equipment.

To ensure optimal operation of this device, we strongly recommend that its maintenance be carried out by our authorised Technical Services.

Ecler **VEO-DACS4** comes with a **3-year warranty**.

### 4. INTRODUCTION

VEO-DACS4 allows converting digital audio signals from HDMI ARC and S/PDIF optical or coaxial inputs to a stereo analogue signal. In addition, it can be used to convert digital S/PDIF audio coming from the optical input to coaxial and vice versa. It provides two different stereo analogue outputs: a balanced Euroblock and an unbalanced RCA connector. Function mode is selectable through the onboard switch.

#### 4.1. Main Features

- HDMI ARC, S/PDIF optical and coaxial inputs.
- Includes stereo analogue balanced output on Euroblock connector, stereo analogue unbalanced output on RCA connector and digital S/PDIF output on optical and coaxial connectors.
- Frontal switch for input source selection.
- Supports DTS, Dolby Digital and PCM up 5.1 channels.

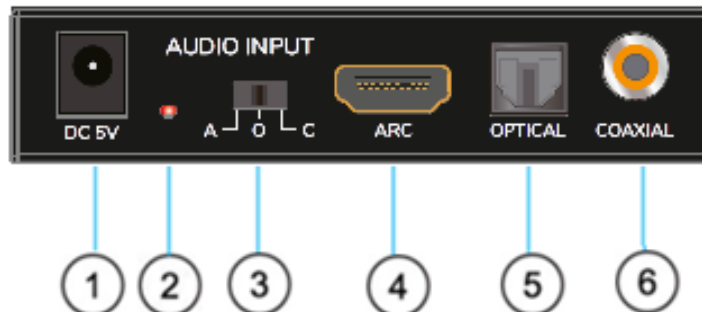
### 5. PACKAGE CONTENTS

- 1 x VEO-DACS4.
- 1 x Power Supply.
- 2 x 3 Pin Euroblock Connector.



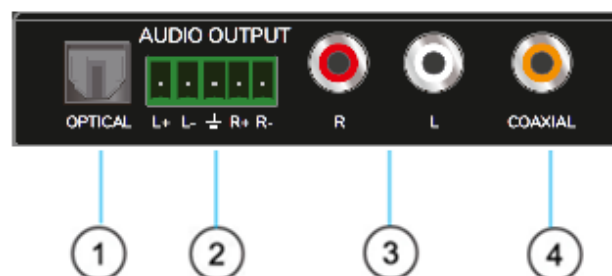
## 6. PANELS DESCRIPTION

### 6.1. Front Panel



- 1 **DC 5V:** Power Supply input.
- 2 **POWER LED:** This LED lights in red when the device is correctly powered.
- 3 **AUDIO INPUT SELECTOR:** This switch allows to select the audio source to convert. The three options available are ARC, Optical, Coaxial.
- 4 **ARC:** HDMI input port to connect an HDMI ARC port of a display device.
- 5 **OPTICAL:** Optical input to connect a digital audio source.
- 6 **COAXIAL:** Coaxial input to connect a digital audio source.

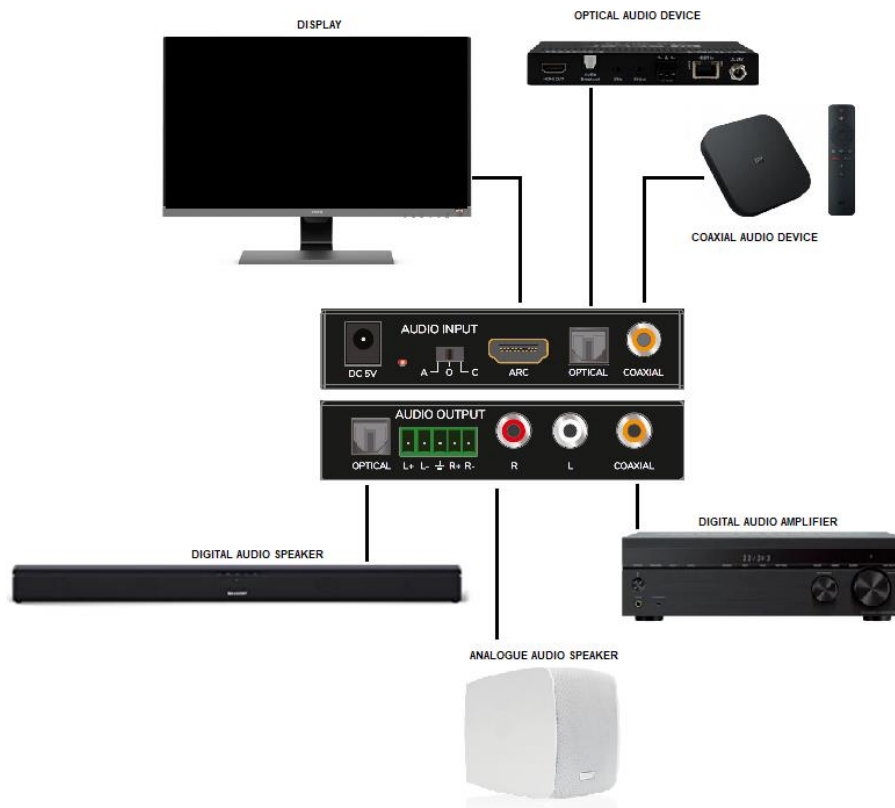
### 6.2. Rear Panel



- 1 **OPTICAL OUTPUT:** Output connector to connect a digital audio input
- 2 **BALANCED OUTPUT:** Euroblock stereo analogue balanced output connector to connect a stereo balanced analogue input
- 3 **UNBALANCED OUTPUT:** RCA stereo analogue unbalanced connector to connect a stereo unbalanced analogue input
- 4 **COAXIAL OUTPUT:** Coaxial digital output connector to connect a digital audio input



## 7. CONNECTING DEVICES



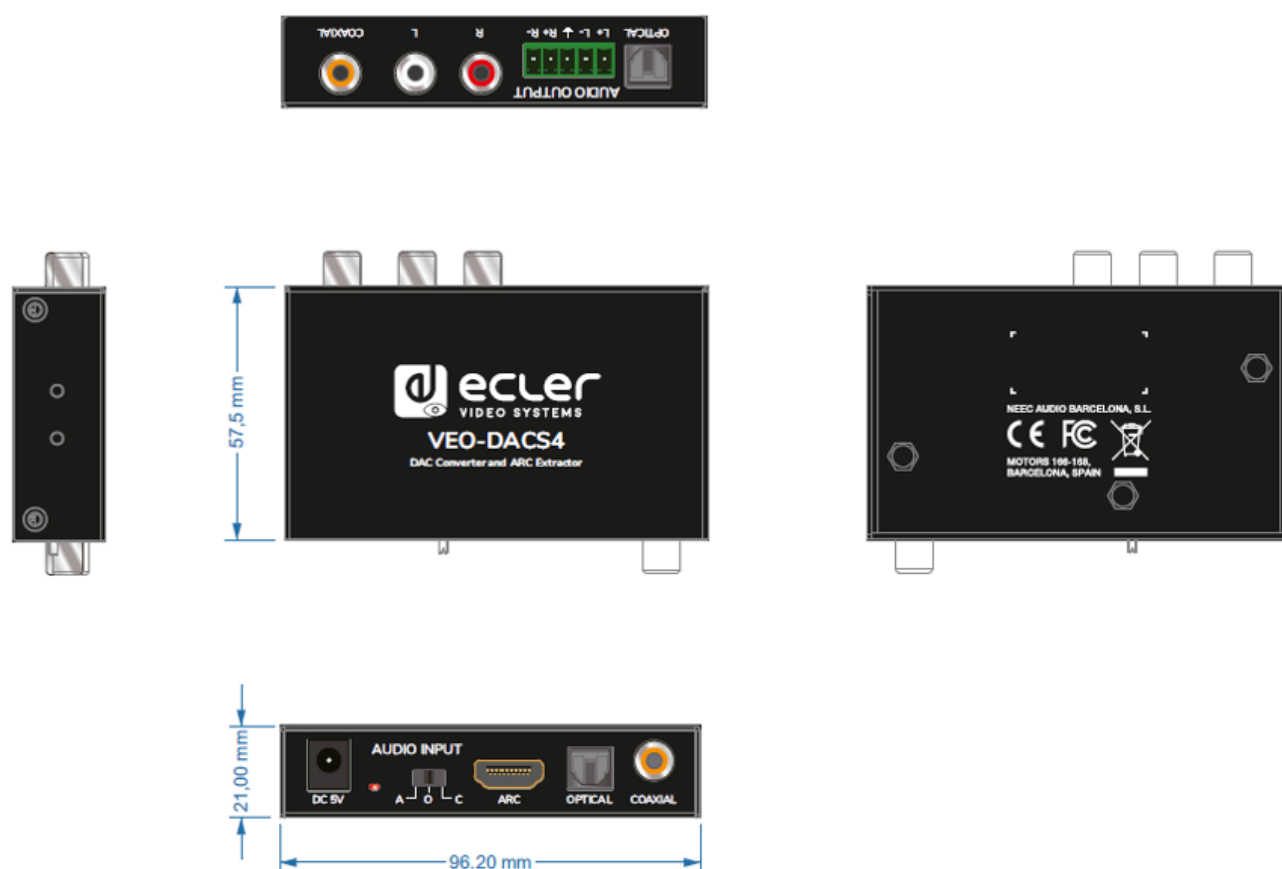
### 7.1. Connections and Operation

1. Connect the desired audio input to an audio source and select the correct input on VEO-DACS4 using the related source selector.
2. Connect the desired digital or analogue audio output to an audio input.
3. Connect DC 5V power to the VEO-DACS4.

**Attention:** Audio analogue output decodes only PCM 2.0 sources. Both balanced and unbalanced outputs extract at the same time.



## 8. MECHANICAL DIAGRAM



## 9. TECHNICAL SPECIFICATIONS

### VEO-DACS4

|                         |                                                                                                     |  |
|-------------------------|-----------------------------------------------------------------------------------------------------|--|
| Audio Performances      |                                                                                                     |  |
| Audio Formats           | Dolby Digital, DTS 5.1, PCM;                                                                        |  |
| Sample Rate             | 32 KHz, 44.1 KHz, 48 KHz, 88.2 KHz, 96 KHz, 176.4 KHz, 192 KHz                                      |  |
| Bit Depth               | 16 to 24-bit                                                                                        |  |
| Frequency Response      | 20Hz–20KHz, ±3dB                                                                                    |  |
| Audio Input Connectors  | 1 x HDMI (ARC)<br>1 x S/PDIF Toslink<br>1 x S/PDIF Coaxial                                          |  |
| Audio Output Connectors | 1 x 5pins Euroblock for Stereo Balanced Output (PCM 2.)<br>1 x S/PDIF Toslink<br>1 x S/PDIF Coaxial |  |
| Control                 |                                                                                                     |  |
| Source Selector         | 3-positions switch for input source selection                                                       |  |
| LED Indication          | Power ON      1 x red LED for power supply                                                          |  |
| General                 |                                                                                                     |  |
| HDMI Distance           | up to 10 meters / 33 ft with Ecler VEO cables                                                       |  |
| Environmental           |                                                                                                     |  |
| Operation Temperature   | -0 to +40°C (+32 to +104 °F)                                                                        |  |
| Humidity                | 5 - 90% RH (no condensation)                                                                        |  |
| Power Supply            |                                                                                                     |  |
| Power Supply            | AC 100V ~ 240V 50/60Hz<br>Output: DC 5V---1A                                                        |  |
| Power Consumption       | Max 3W                                                                                              |  |
| Mechanical              |                                                                                                     |  |
| Dimensions              | 96.2mm x 57.5mm x 21mm (3.79" x 2.26" x 0.83")                                                      |  |
| Weight                  | 140g / 0.309 lbs                                                                                    |  |





All product characteristics are subject to variation due to production tolerances. **NEEC AUDIO BARCELONA S.L.** reserves the right to make changes or improvements in the design or manufacturing that may affect these product specifications.

For technical queries contact your supplier, distributor or complete the contact form on our website, in [Support / Technical requests](#).

Motors, 166-168 08038 Barcelona - Spain - (+34) 932238403 | [information@ecler.com](mailto:information@ecler.com) | [www.ecler.com](http://www.ecler.com)

