



# PRIVILEGE SERIES D/A CONVERTER

**User manual**



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## Introduction

## Contact

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## Document overview

This document is the user manual for the Orpheus Media Privilege series D/A Converter.



## UNPACKING

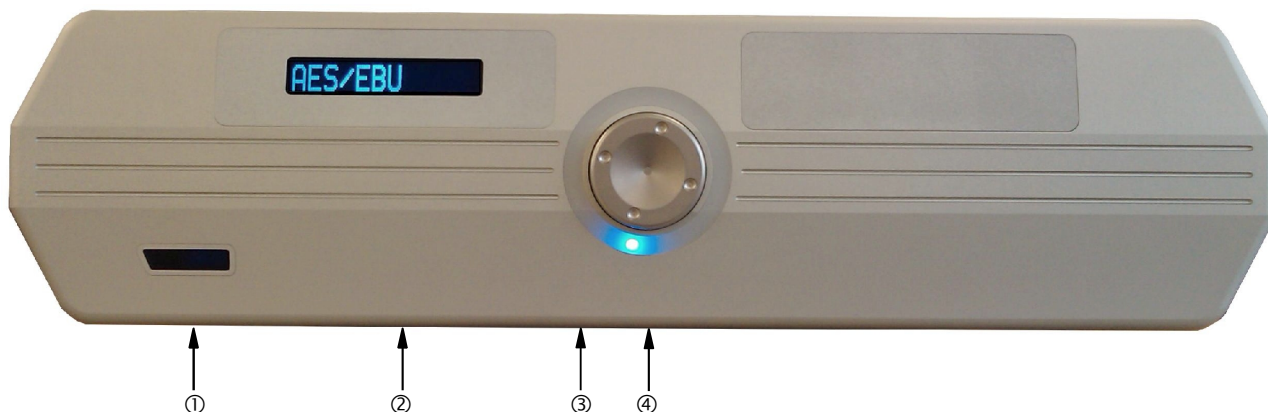
First check and identify the contents of your preamplifier package, as listed below:

- D/A Converter
- CD User manual

### **Read this before operating your unit**

- Please read this manual carefully, to assure proper operation and the possible performance.
- Switch off the unit before connecting or disconnecting any input or output cables.
- Do not touch the inner pins of rear panel connectors, electrostatic discharge may cause permanent damage to the unit.
- Choose the installation location for the unit carefully. Avoid placing it in direct sunlight or close to a source of heat. Avoid also locations subject to vibration and excessive dust, heat, cold or moisture.
- To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture.
- Do not use force when operating switches, knobs and other controls.
- Do not open the chassis or attempt to make repairs by yourself, as this may result in damage to the unit or electrical shock. If a foreign object should get into the unit, contact your local dealer.
- When planning not to use the unit for a long period of time, it is advisable to disconnect the power plug from the wall outlet.
- The power switch does not disconnect the complete unit from the main line.
- To prevent lightning damage, disconnect the power plug when there is an electrical storm.
- When moving the unit, be sure to first disconnect the power plug and all wires connected from the unit to other equipment.
- When disconnecting the power plug from the wall outlet, always pull directly on the plug, never pull the cord itself.
- Do not attempt to clean this unit with water or chemical solvents, as this may damage the unit or the finish. Use a clean, dry cloth.
- Keep this manual in a safe place for future reference.

## FRONT PANEL



### ① INFRARED REMOTE CONTROL SENSOR

Receives signals from the remote control transmitter.  
Compatible with all Orpheus remotes controls transmitter.

### ② DISPLAY

Displays the input selection, as well as the setup menus.

### ③ POWER

Lights red when the unit is in standby mode.

Lights red blink when the unit is switching on during 3 secondes and when it is in wake up.

### ④ CONTROL

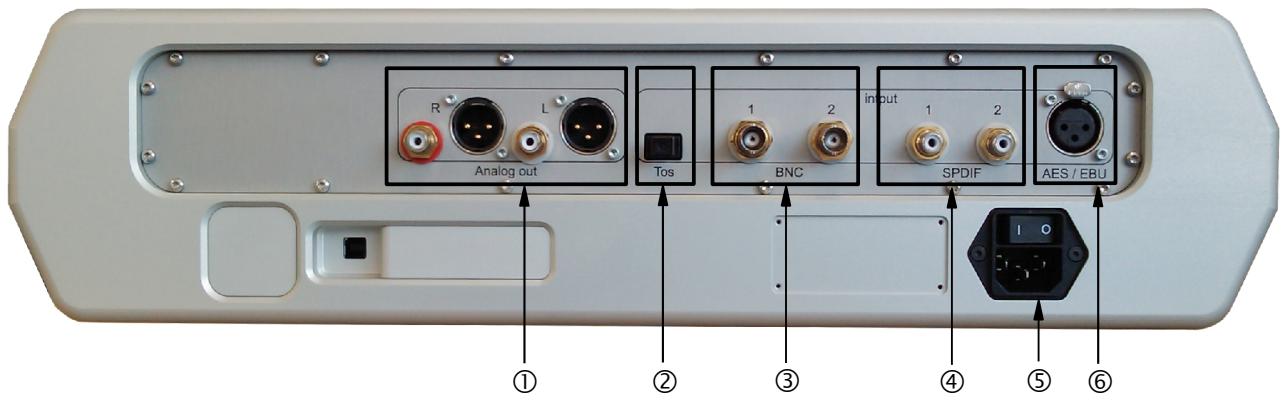
Used for choosing digital input format and menu navigation as well as unit setup.

Turn to right and Turn to Left

Used for increasing, decreasing or choosing values, for instance, while change adjusting volume levels, dimming the display renaming inputs.

Press on the button to enter in setup.

## REAR PANEL



### ① **OUTPUTS**

Analogue balanced right and left channel outputs on XLR connectors. Unbalanced right and left channel outputs on RCA connectors.

### ② **INPUT TOSLINK FORMAT**

Digital data stream input using an optical connector for TOSLINK format.

### ③ **INPUT BNC FORMAT**

Digital data stream inputs using two independent connectors (BNC 1 and 2) for BNC format.

### ④ **INPUT S/PDIF FORMAT**

Digital data stream inputs using two independent RCA connectors (S/PDIF 1 and 2) for S/PDIF format.

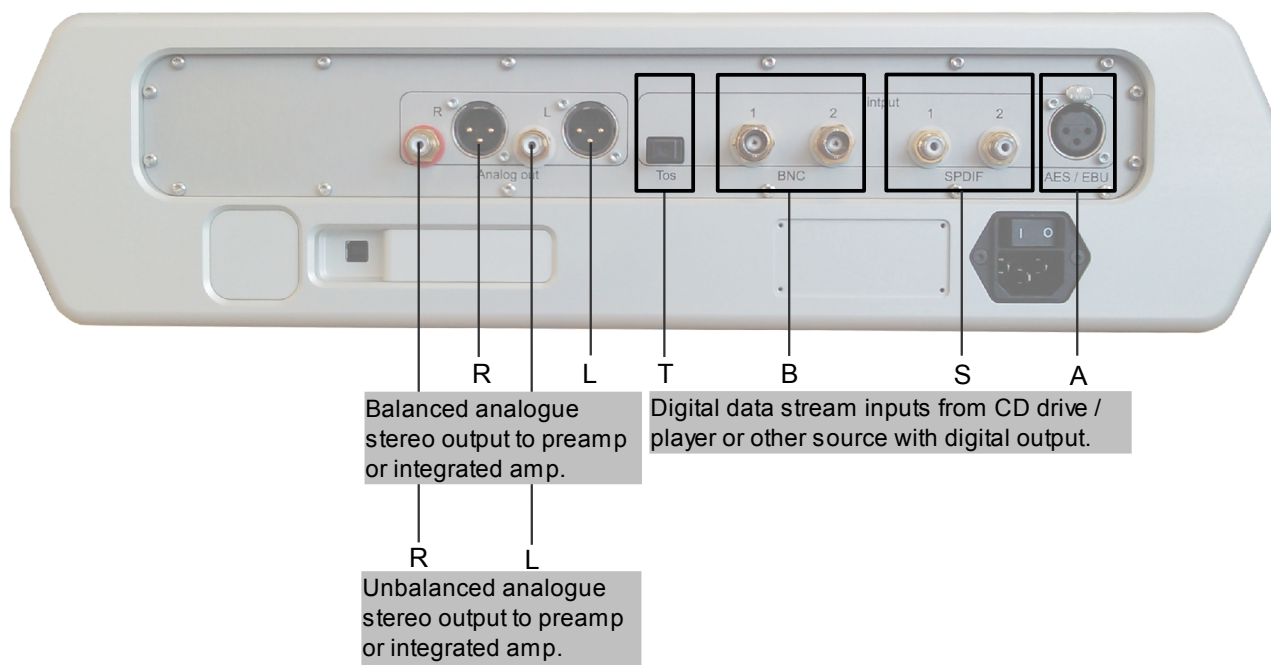
### ⑤ **POWER SUPPLY & POWER SWITCH**

Power cord connection and main power switch

### ⑥ **INPUT AES/EBU FORMAT**

Digital data stream inputs using two independent RCA connectors (S/PDIF 1 and 2) for S/PDIF format.

## CONNECTIONS



R : right channel

L : left channel

A : AES/EBU

S : S/PDIF

B : BNC

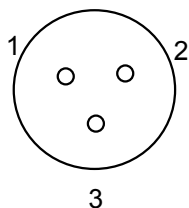
T : TOSLINK

### XLR OUTPUT CONNECTOR

Pin 1 : ground

Pin 2 : signal in phase

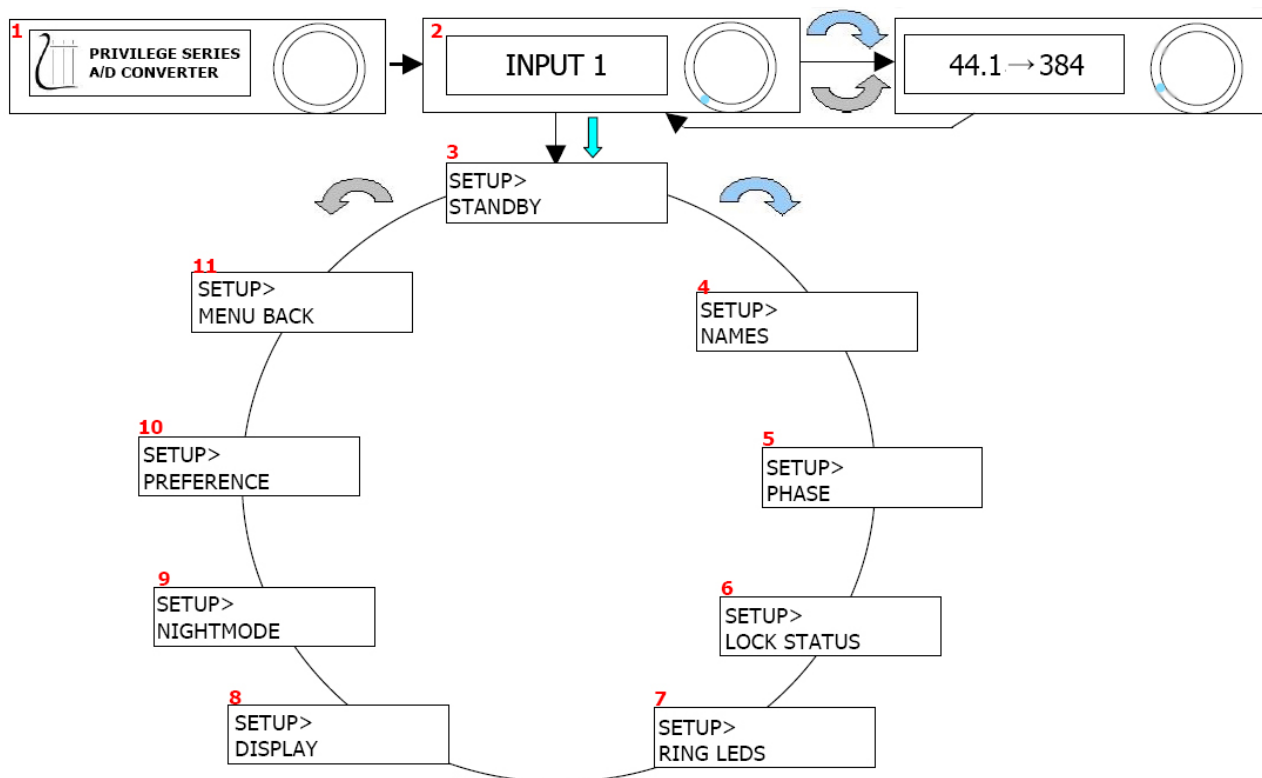
Pin 3 : signal out of phase



The balanced analogue output is not a floating output. Do not connect pin 3 of the connector to ground.

If you wish to wire the balanced output to an unbalanced input (with RCA connector), connect pin 1 to ground and pin 2 to signal, and make sure pin 3 is not used.

## DISPLAY AND MENU STRUCTURE



## SETUP AND OPERATIONS

### QUICK GUIDE

#### POWER ON

Flip the main power switch on the lefthand side of the rear panel from 0 to 1.

#### MAIN SCREEN

After switching on the unit, the display windows shows the start up screen shortly. It then switches to the default screen which shows input selection for listening.

#### CHOOSING AN INPUT

To choose between inputs, turn to right or left the button until the desired input channel is displayed.

#### GOING INTO STANDBY

Press the button twice.

#### LOST? RELAX...

Let the system return to the main screen automatically.

After approximately 10 seconds of control button inactivity the display returns to the previous menus, and finally to the main screen.

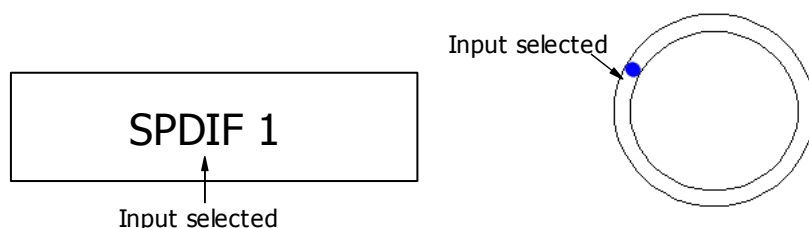


## 1. START UP DISPLAY



The start up display is shown approximatively 3 seconds when main power is switched on. It is then replaced by the main screen.

## 2. MAIN SCREEN



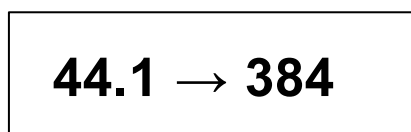
The main screen is the default display during normal operation. It shows the name of the digital input format selected.

To choose between input formats turn left or right until the desired input format is displayed.

Options :

- AES/EBU
- SPDIF 1 or 2
- BNC 1 or 2
- TOSLINK

Select between the various options according to your digital source and the connection established.



### UPSAMPLING

When selecting a new source, the display shows the upsampling details. The sampling rate conversion to the high definition signal which is then converted to the analogue domain is shown in kHz and is displayed for approx. 2 seconds upon successful lock on to the data stream of the stream of the chosen digital input format.

Hereafter the display returns to default main screen.

If the system has not been able to lock on to the data stream of the chosen input the display shows **NO LOCK**.

**NO PCM** indicated that a non linear PCM data stream is received from for example a DTS CD.



## SETUP MENU

From main screen press on the button to enter setup menu.

To choose between the setup menu options turn to right or left with the button until the desired option is displayed.

## 3. STANDBY MODE

SETUP>  
STANDBY

Pressing on the button the unit in to standby mode.

Pressing any navigation button resumes normal operations.

## 4. INPUT NAME SETTING

SETUP>  
NAME

To enter name setting press on the button.

SETUP>NAME>  
SPDIF 1

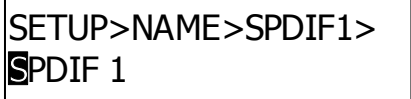
### INPUT SELECTION

Select the input that should be renamed by turning to right or left until the chosen input is displayed. Press on the button to confirm

## RENAMING

Each input can have any individually defined name. The name can be a word with a combination of up to 10 letters or numbers.

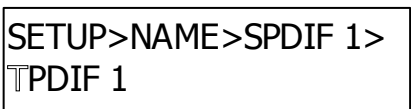
### MOVING CURSOR



SETUP>NAME>SPDIF1>  
SPDIF 1

Turn to right or left to switch from one position to the other.  
Press on the button to select the position to change the character.

### CHANGING CHARACTERS



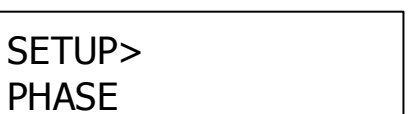
SETUP>NAME>SPDIF 1>  
TPDIF 1

Turn to left or right to change the value.  
Characters A to Z and 0 to 9, as well as space, are available.

Press the button to confirm the choice.

Wait 10 seconds to confirm the new input name.

## 5. PHASE SELECTION



SETUP>  
PHASE

To enter phase selection mode press the button.

This function gives to possibility to select phase. Normal mode gives the natural perspective of music. Inversion mode changes the absolute phase by 180°

Options:

- NORMAL
- INVERSION

To select an input turn to left or right until the chosen phase is displayed.  
Press on the button to confirm.

## 6. LOCK STATUS

SETUP>  
LOCK STATUS

To enter LOCK STATUS mode press on the button.

This function gives the possibility to enable or disable the Upsampling details (lock status) .  
When this function is enable, the upsampling detail is show at every changement of status.

To select an input turn to left or right until the chosen lock status is displayed.

## 7. RING LEDS

SETUP>  
RING LEDS

To enter RING LEDS mode press the button.

The leds brightness can be adjusted from 100% to 12.5% in 12.5% steps.

To increase or decrease the value turn to right or left.  
Press on the button to select.

## 8. DISPLAY

SETUP>  
DISPLAY

To enter display mode press the button.

The display lighting can be adjusted from 100% to 20% in 25% steps.

To increase or decrease the value turn to right or left.  
Press on the button to select.

## 9. NIGHT MODE

SETUP>  
 NIGHTMODE

To enter night mode press on the button.

When night mode is in position ON the display turns off automatically approx. 3 seconds after pressing any control button.

The unit is still operation and the display lighting is reactivated by pressing any control button.

To set night mode turn to right or left until the chosen mode is displayed.

Press on the button to confirm.

## 10. PREFERENCES

SETUP>  
 PREFERENCES

The various parameter settings allow personalized unit configuration. It is possible to restore previously stored settings as well as to call back the initial factory settings.

Menu SAVE saves the current setup, it is advisable to save any configuration through menu SAVE prior to switching off the unit. Menu RESET restores the previously stored setup and menu FACTORY SETTINGS restores the default factory settings.

To access this menu from main screen, press on the button, turn to left twice times and press.

Turn to right once, twice, three or four times to access menus SAVE, RESET, FACTORY SETTING or SOFTWARE REVISION respectively. Press on the button to enter your choice. In the case of RESET and FACTORY SETTINGS press on the button again to confirm.

FACTORY SETTING has following values.

Names :	SPDIF 1 and 2, AES/EBU, BNC 1 and 2, TOSLINK
Phase :	NORMAL
Lock Status :	ON
DISPLAY :	100%
LEDS :	100%
Night Mode :	OFF

## SPECIFICATIONS

D/A Converter is a 2 channel 24/384kHz upsampler and digital to analogue conversion unit.

D/A Converter features software based Q5™ sample rate conversion technology. Each incoming data stream is converted into a high definition 24bit/384kHz signal prior to being converted to the analogue domain.

The complexity of the analogue reconstruction filter is significantly reduced by using a 384kHz sampling rate. This result in near perfect phase linearity and soundstage quality.

### Technical data

Digital input : one S/PIDF, 75 Ohm, 0.5 V, on RCA connector and  
one AES/EBU, 100 Ohm, 5 V, on XLR connector

Analogue output : either balanced, 4.7 Vrms, on XLR connectors or  
unbalanced, 2.35 Vrms, on RCA connectors

Impedance : 75 Ohm

24 bit / 44.1kHz input signal :

Harmonic distortion (TH+N) : -110dBr @ 0dB FS

Dynamic (THD+N @ -60 dB FS) : 121 dBr

Signal to noise 20 Hz to 22kHz :

3.2  $\mu$ V @ 4.7 Vrms balanced

1.6  $\mu$ V @ 2.35 Vrms unbalanced



## **COMMENTS**

Constructive feedback is always welcome.

Please feel free to forward us your comments at the address listed on last page or to your local dealer or distributor.

## **TECHNOLOGY & DESIGN**

The unit has been entirely manufactured and assembled in Switzerland; conceived by ORPHEUS Media sàrl.

## **IMPORTANT NOTICE**

ORPHEUS Media sàrl reserve the right to make changes to their products or discontinue any product or service without notice. Adequate operating safeguards must be used to minimize hazards. Reproduction of user manual information is permissible only if it is without alteration and is accompanied by all relevant conditions, limitations and notices. Source must be clearly identified when reproducing user manual information.



## **LIMITED WARRANTY CERTIFICATE**

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ORPHEUS Media guarantees that the product described below is free of defective material and workmanship. The warranty extends for a period of one year from original purchase date, but at maximum two years from manufacturing date. ORPHEUS Media agrees to repair or replace defective parts or the complete unit at its option, provided that the equipment is returned exclusively to the original dealer.

This limited warranty is contingent upon proper and normal use and installation, and does not cover damage due to external causes, including but not limited to, accident, careless handling, improper installation or connection, problems with electrical power, electrical contact or electrical grounding, liquids, chemicals, oxidation, corrosion, exposure to the elements, service or repair not authorized by ORPHEUS Media, usage not in accordance with product instructions, failure to perform required preventive maintenance, and problems caused by use of parts and components not supplied or authorized by ORPHEUS Media. Removing, altering, tampering with serial number voids the limited warranty. The limited warranty does not extend to or include consequential damage, and does not apply in any case for damage occurring during shipping or installation.

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ORPHEUS Media Sàrl – August 2009 – rev.1

Strategy Manager  
Tallant Fabien

Technical Manager  
Schlaepfer Julien

**Model    PRIVILEGE SERIES - PREAMPLIFIER**

**Serial Number** \_\_\_\_\_