



## Endpoint "Ambre "

User manual



## Introduction

At Metrum Acoustics we are fanatic about building the best Digital to Analogue converters because of our love for making digital music sound sublime!

Because of this dedication to perfection we can truly appreciate listening experiences like ROON®.

Roon® looks at your music and finds photos, bios, reviews, lyrics, and concert dates, and makes connections between artists, composers, performers, conductors, and producers.

What you get is a **searchable, surfable magazine** about your music.

And as we believe a DAC, Digital to Analogue converter is the heart of your music setup, what else can we do than to build a ROON end point which will allow you to direct your digital music through our device in order to get the most sublime sound available!



### **IMPORTANT SAFETY INSTRUCTIONS**

- 1.** Read 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 a dry cloth.
- 7.** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 8.** Unplug this apparatus during lightning storms or when unused for long periods of time.
- 9.** Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a 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.
- 10.** The Ambre must be placed on a firm, level surface where it is not exposed to dripping or splashing.
- 11.** Before making connections to the dac, ensure that the power is off and other components are in mute or stand-by mode. Make sure all cable terminations are of the highest quality, free from frayed ends, short circuits, or cold solder joints.
- 12.** THERE ARE NO USER SERVICEABLE PARTS INSIDE THE "Ambre".  
Please contact All Engineering if you have any questions not addressed in this guide.
- 13.** All Engineering cannot be held accountable and/or responsible for any form of damage or health issues inflicted to you, other people, pets, companies and non-living objects, that are caused by any form of usage of the product which is not described in this manual.
- 14.** By actually using this product and turning it on for the first time, you agree to these terms



### What is in the Box

- The Ambre Endpoint
- Power cord (only Euro or USA based power cords)
- 2x UTP cable 1.5 mtr , two different colors

## Connections

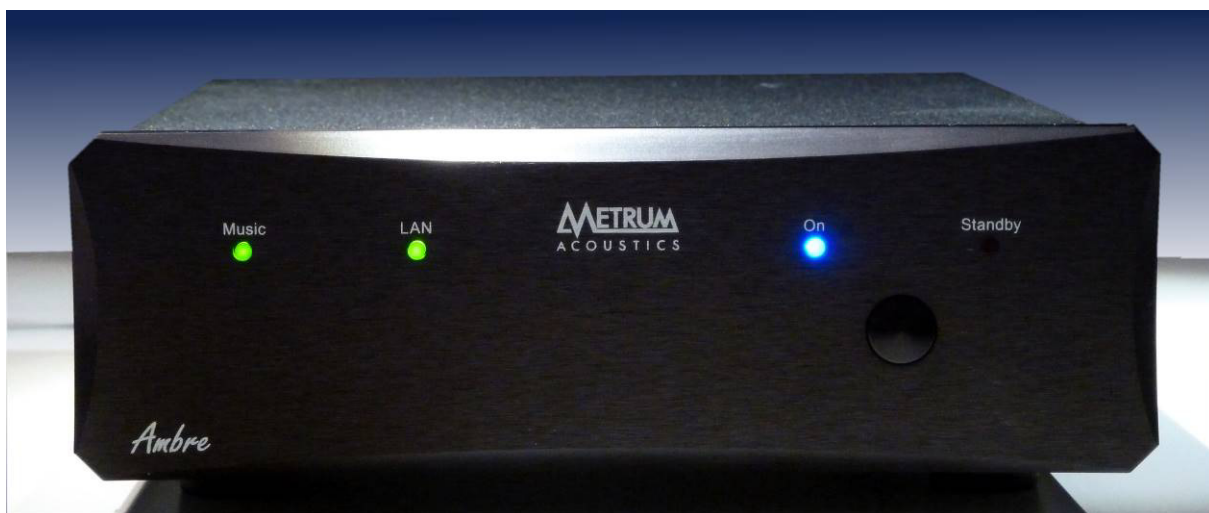


### **Caution!** Please connect your interconnects first before connecting the mains power cable!

- **Power requirements:** Check if the product is made conform the power requirements of your area. On the back side the product is marked for the specific mains voltage.
- **LAN (local area network) input:** Connect an UTP cable with your local network. The Ambre is made as a Roon end point and cannot work as a standalone device. The Ambre expects a working Roon music server on the same local network.
- **Coaxial Output:** A 75 Ohm coaxial cable should be used to connect the Ambre to other digital audio equipment like a dac for instance. The coaxial output has a galvanic isolation and can handle a maximum sample rate of 192 kHz.
- **AES/EBU digital output:** When using the AES /EBU digital output a special 110 Ohms XLR cable should be used to connect the Ambre to other digital audio equipment. The AES/EBU interface has a galvanic isolation and can handle a maximum sampling rate of 192 kHz.
- **Optical output:** A standard Toslink cable can be used to connect the Ambre to other digital audio equipment. The max sampling rate of the Toslink interface is limited to 96kHz.

- **I2S output:** The I2S connection is probably the best way to connect digital audio equipment over short distances without intervention of all kind of interfaces like AES/EBU , spdif or Toslink. However still I2S is no international standard in terms of ruggedising the format or the connectors used. The I2S standard is optimized as an interconnection between Metrum Acoustics products but will work in most cases in conjunction with other gear. If your Metrum Acoustics product has the I2S option installed you can use a simple UTP cable to connect both devices.
- **Mains inlet:** Use a power cable to a grounded power outlet.

## Operation



- **On/standby switch :** By default the Ambre will startup as soon the mains cable is connected. In cases that the Ambre is in a hide location there is no need to switch it to “On” Still it can be switched to “Standby” when needed. If the Ambre is switched to “Standby” the red led will lit.

**Remark: The Ambre is not visible in the local network or by the Roon server when switched to standby!**

- **Starting up procedure:** When the Ambre is switched to “On” it will show you a flashing blue light for max. one minute. During this period the Ambre is starting up all routines to connect to the Roon music server.

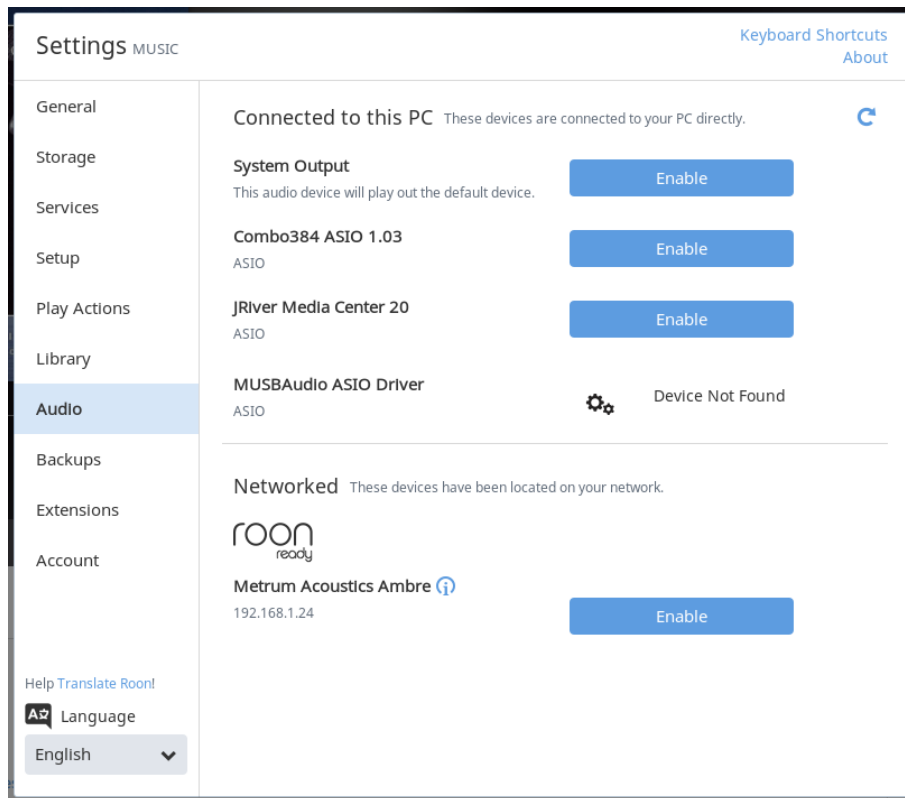


- **LAN indicator:** The LAN indicator tells you that the Ambre is connected to your local network. Instead of the usual flashing (as quite common for network interfaces) this indicator shows an almost steady state in case of network traffic.
- **Music indicator:** When you select and play music via your Roon UI (user interface) the Music indicator tells you that the Ambre will receive data.

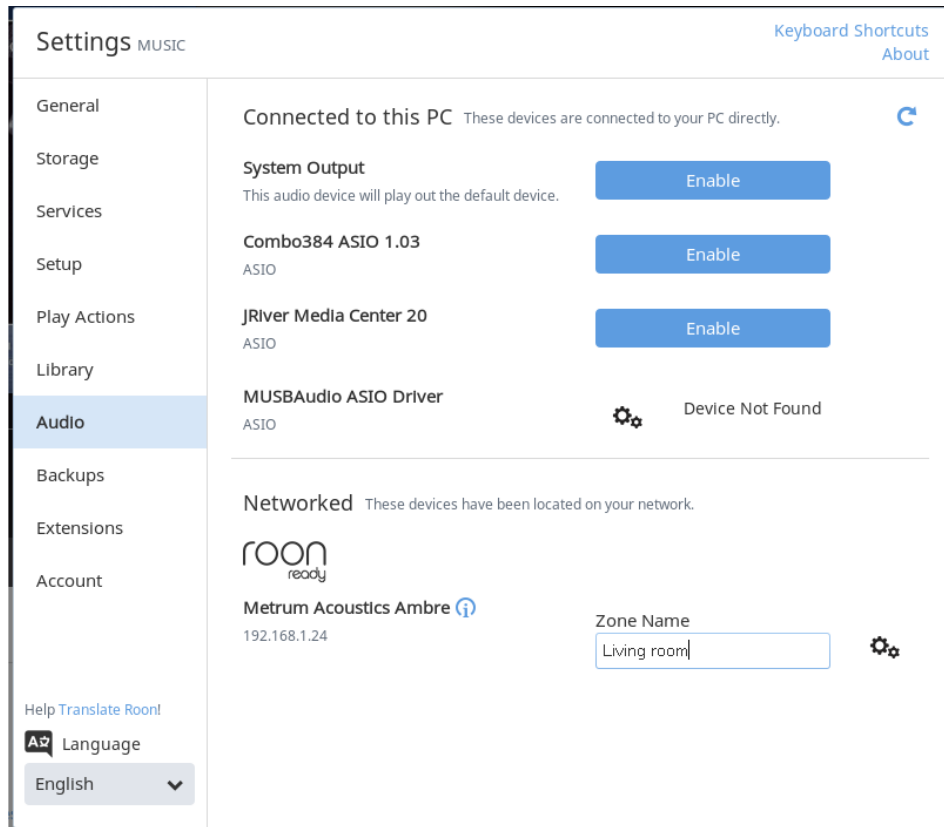
**Remark: The Ambre should be selected in Roon as the default output device.**

## How to make the Ambre visible in Roon

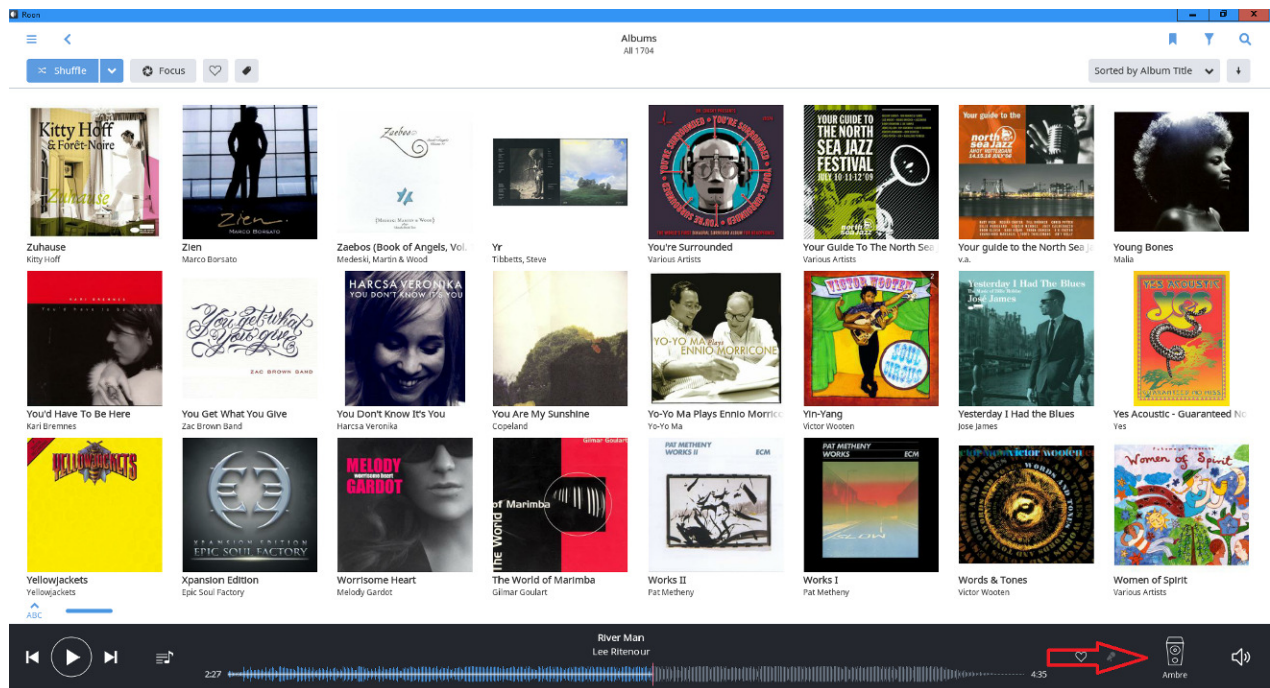
- When the Ambre is connected and full operational (no blinking blue light) your Roon user interface will detect the presence of the Ambre.
- Go to settings > audio. The next screen is visible:



- Now Ambre is visible but should be enabled before it can be used.
- Enable the Ambre for your network and give it a name for the area in use (for instance living room , kitchen or bedroom) Now the Ambre is ready for use.



- The last step is to select the right output device for the specific room. Go to the right bottom in your Roon user interface and select the right source by clicking on the Icon.







**Technical specs :**

Working principle:	Linux based Roon end point using femto precision clocks
Power supply:	30 VA
Power consumption:	Standby < 1 Watt Full operation 6 Watts
Power requirement:	110/115V AC or 220/230 V AC 60/50Hz
Inputs:	Lan (local area network) max. 100 Mbps
Outputs:	1x optical Toslink, 1x RCA coax, 1x AES/EBU and I2S.
Sampling frequency:	Optical : 44.1 - 96 kHz sampling. Coaxial: 44.1 - 192 kHz sampling. I2S: 44.1- 192 kHz sampling.
Dimensions hwxwd:	19 x 6 x 25 cm
Weight:	2500 gram.

Subject to change without notice.

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