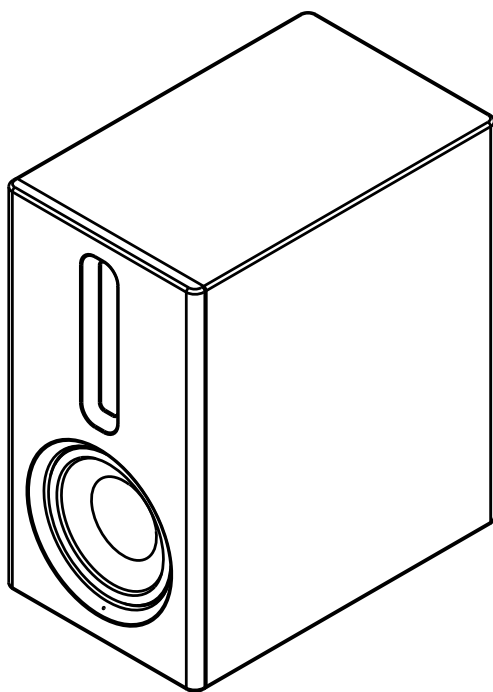


Première
[S]



Owners Manual

Rev. 1 - January 2022

English

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Safety information

Read this manual thoroughly before operating the device and store for future reference.

- **Electrical Safety**

This device is a Class 1 appliance which requires a protective earth connection for operation. The user must ensure that the device is properly grounded.

The power cord must be routed in such a way, that it is unlikely to be pinched, walked on, or stressed in any other way. To ensure user safety, any damaged power cord must be replaced immediately.

It is recommended to disconnect the device from the mains if unused for a prolonged period of time.

- **Moisture**

Do not use or store this device in wet or humid environments. Assure that no liquids can be spilled on the device. Do not place liquid-containing objects on the device.

If a liquid is spilled onto the device, immediately disconnect it from the mains.

The device may not be used again until AcouLab or a certified technician has assessed and repaired the damage.

- **Heat and Ventilation**

This device may dissipate significant amounts of heat in designated areas (see P.9 - Rear Overview).

The device may not be covered or placed in proximity to a heat source.

Direct exposure to sunlight must be avoided.

- **Sound Pressure Levels**

This device is capable of producing sound pressure levels that can result in temporary or permanent hearing loss.

- **Cleaning**

Disconnect the device from the mains before attempting to clean the device.

Use a dry or damp non-abrasive cloth to clean the product.

Chemical substances such as alcohol or acetone may damage the surface and should not be used for cleaning.

- **Service and Maintenance**

This device may only be serviced by trained personnel. Any attempt at servicing or disassembling the product may lead to exposure to deadly voltages.

Please contact AcouLab when service is required.

General information

Introduction

Thank you for your purchase !

AcouLab's Première S is a compact speaker employing most modern digital signal processing, state-of-the-art Class D amplification and proprietary Motional Feedback technology.

Première is designed to satisfy even the most demanding studio professionals and High-End audio connoisseurs alike.

This manual contains all required information to use the product, as well as essential safety instructions.

Quality Control

Every AcouLab product undergoes rigorous quality, performance, and safety checks before shipping.

Should the product shows any sign of damage upon arrival, please contact AcouLab immediately, to discuss the further course of action.

It is recommended to store all packaging material to allow for safe and easy shipping if the product ever needs to be returned to AcouLab for service.

Contents of the Box

Your box should contain the following items:

- 2x AcouLab Première S Loudspeaker
- 2x 3m IEC power cord (European Wall-plug)
- 1x User guide

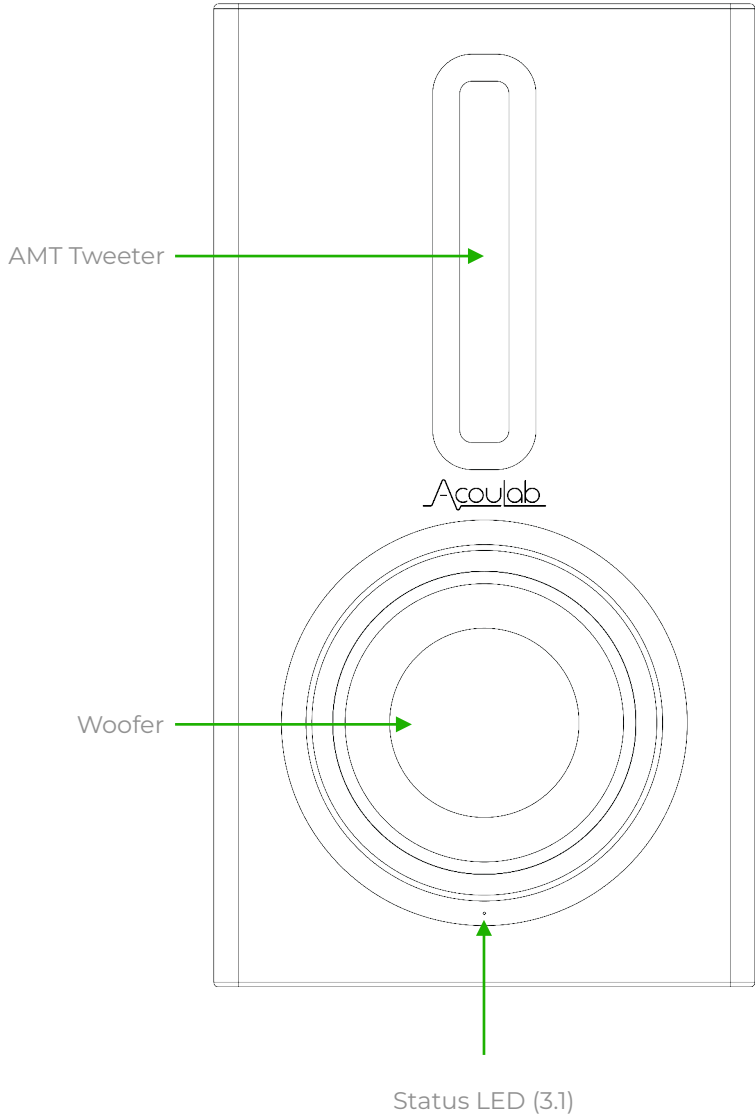
If any of the aforementioned items is missing, please contact AcouLab.

Getting started

1. Familiarize yourself with the safety instructions outlined in this document (Page 4-5).
2. Place the speakers in their desired position. Refer to page 15 for placement advice.
3. Connect your source device to one of the three inputs. Refer to page 10 for detailed information.
4. Connect the device to the mains. If no LED lights up on the back panel, assure that the mains switch is turned on.
5. Set the desired mode of operation by pressing the "Power Mode" actuator. Refer to page 12 for detailed information.
If you wish to use the trigger functionality, connect the trigger input to your source device.
6. If you are using the AES/EBU digital input, adjust each speaker's "Position" setting to reflect its location relative to your listening position.
7. You're all set ! Enjoy your new AcouLab speakers.

Should you run into trouble at any point of the setup, do not hesitate to contact AcouLab.

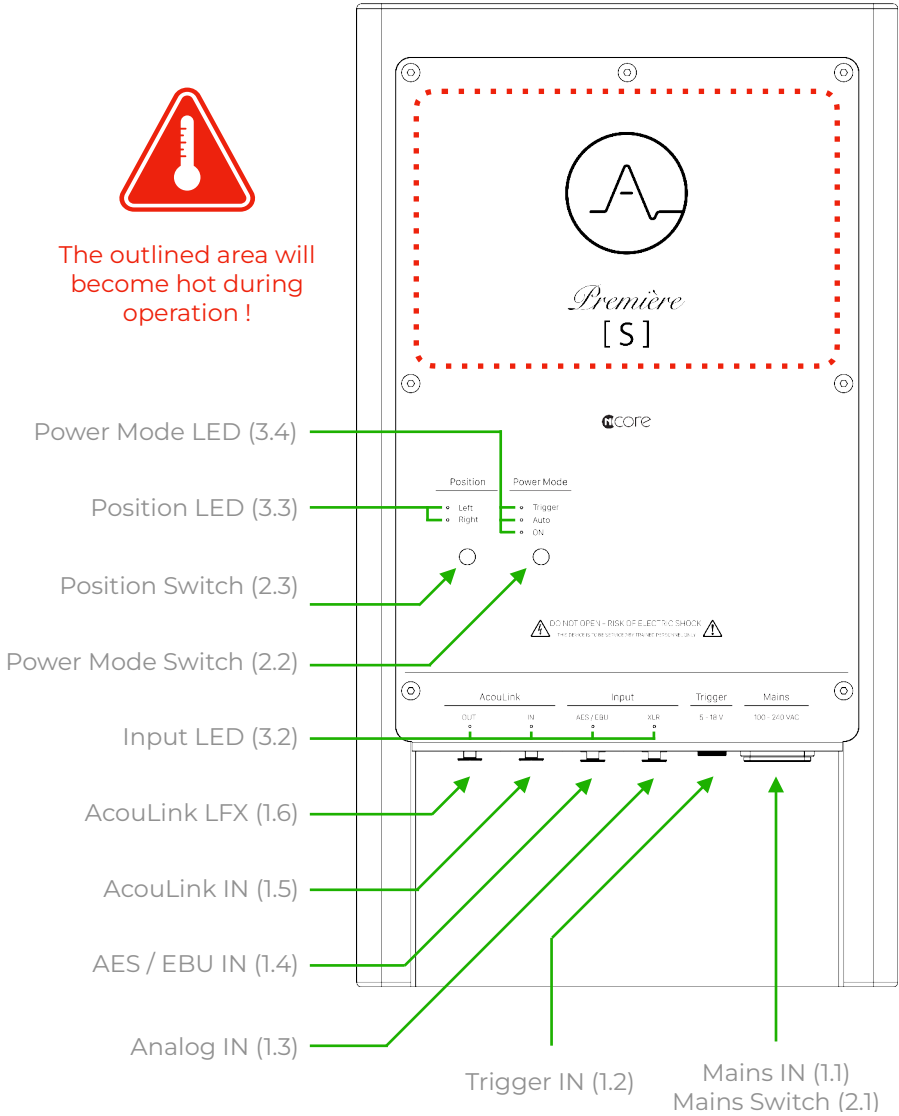
Front Overview



Rear Overview



The outlined area will become hot during operation !



Connections

(1.1) Mains

Première features a quasi-universal mains input, compatible with low line voltages ranging from 100VAC to 120VAC and high line voltages ranging from 200VAC to 220VAC.

Thus, Première can be used on all standard mains voltages worldwide.

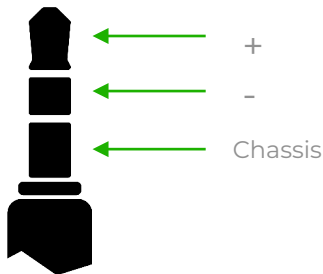
(1.2) Trigger

The 3.5mm trigger jack may be used to remotely control Première's power state. To enable this feature, "Power Mode" must be set to "Trigger".

Première will wake from standby if a voltage is applied to the trigger input, and return to a standby state when no voltage is applied.

The trigger input is galvanically isolated, supports voltages ranging from 5V DC to 18V DC, and may draw up to 10mA of current from the source device.

Assure that the 3.5mm jack is wired according to the following diagram:



(1.3) Analog (XLR)

Fully balanced analog audio input.

Although RCA to XLR adapters may be used for interfacing Première with single-ended audio sources, AcouLab recommends the use of balanced connections.

(1.4) Digital AES/EBU (XLR)

Fully balanced, galvanically isolated digital audio input compliant with AES/EBU standards.

Note: The source device must have the ability to attenuate its digital output volume. Failing to use a source device with such capabilities will result in full-level output.

(1.5) AcouLink IN

AcouLink is the preferred connection for interfacing Première with an AcouLab source device.

In addition to transmitting audio signals, AcouLink enables the source device to control the speakers power state, as well as enabling non-truncating volume control within the speaker's internal Digital to Analog converter.

(1.6) AcouLink LFX

AcouLink enables interfacing with the optional Première LFX module.

Note:

- AcouLink connections must not be mistaken for LAN connectors
- Do not connect more than one input simultaneously
- Première will automatically detect which input is being used

Switches

(2.1) Mains Switch

The mains switch is located on the mains receptacle. It allows isolating Première from the mains without physically removing the mains cable.

(2.2) Power Mode Switch

The "Power Mode" switch allows users to choose between three different modes of operation.

- Trigger (Standby)

In trigger mode, Première will default to a standby state until a voltage is applied to the trigger input.

Trigger mode is recommended when using a third party source-device with a trigger output.

- Auto (Signal detect)

In auto mode, Première will default to a standby state until a music signal is detected. Auto mode can be used with analog or digital inputs.

Auto mode is recommended if a third party source is used which is not equipped with a trigger output.

When an analog source is used, a certain signal level is required to trigger the detection.

When a digital source is used, a signal is detected if non-zero samples are passed to the speaker.

- ON (continuous ON)

In ON mode, Première will default to an ON state regardless of the circumstances.

This mode is not recommended unless the specific user application demands it.

Note: If AcouLink IN is used, the "Power Mode" setting is obsolete. The AcouLab source device will automatically take control of Première's power state.

(2.3) Position Switch

A digital audio signal contains Left- and Right audio signals within one stream.

If the AES/EBU digital input is used, the user must adjust the position setting in accordance with each speaker's position relative to the listening position.

Note: The position setting is disabled if AcouLink or analog connections are used.

Indicator LEDs

(3.1) Status LED

The status LED located on the front of the speaker gives information about the power state of the device, as well as indicating errors.

- Constant Red
Indicates that the product is in standby mode
- Constant White
Indicates that the product is on and working properly.
- Slow Blinking White
Indicates that clipping is about to happen. The device will continue operating normally.
- Fast Blinking White
Indicates that clipping is happening. The device has attenuated low frequency to prevent damage to its drivers.
- Red / White blinking
Indicates that a severe clipping event has occurred. The product has shut down to prevent damage.
- Slow Blinking Red
Indicates an over-temperature condition.
- Fast Blinking Red
Indicates an unknown critical error. Contact AcouLab if the problem persists.

(3.2) Input LED

Indicates the currently used input.

(3.3) Position LED

Indicates the currently set position (if applicable).

(3.4) Power Mode LED

Indicates the currently used power mode setting.

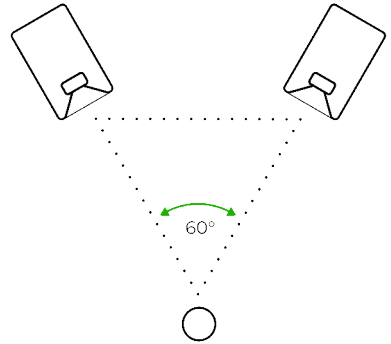
Speaker Placement

Speaker placement is crucial to achieving the desired listening experience. It is however highly dependent on the given circumstances.

This section aims to provide basic guidance on speaker placement. However, trial & error on part of the user may be required to achieve optimal results.

Listening Triangle

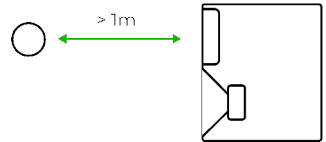
Generally, it is advised to place the speaker in such way, that an equilateral triangle is formed with the listening position. We recommend toeing in the speakers towards the listening position.



Listening distance

Since the amount of direct sound in relation to reverent sound decreases with increasing distance, it is usually advised to keep listening distances short. However, the listing distance should not be less than 1m.

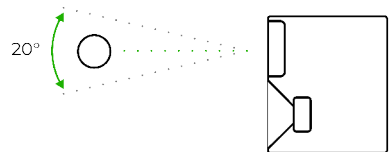
AcouLab recommends a listening distance of 3m.



Listening height

Première is designed to have high vertical directivity to reduce bothersome floor and ceiling reflections.

It is therefore important, that Première's tweeter is at ear-height.



Solid Stand

The device should be placed on a solid stand which does not wobble. This is essential for precise bass reproduction. The use of spikes is encouraged.

Manufacturer's Guarantee

AcouLab products are designed and manufactured with longevity in mind. However, if something does go wrong, AcouLab pledges to fix possible defects free of charge.

Coverage

This product is covered by a limited warranty for one year after the purchase, which covers any defects or failures caused by faulty or inadequate design, materials or workmanship.

Fair Repair

In addition to the manufacturer's guarantee, AcouLab offers a guarantee for fair repairs.

"Fair repairs" can be understood as repairs being executed at no profit. AcouLab also offers replacement parts to the customer at-cost, with no profit or markup.

For further information on warranty and its applicable conditions, visit www.acoulab.eu/guarantee/



Technical Specification

Drivers:	HF: 7" Air Motion Transformer LF: 7" Woofer w. Motional Feedback
Audio Inputs:	- Analog (XLR) - Digital AES/EBU (XLR) - AcouLink (RJ45)
Crossover:	Analog Devices DSP 96kHz, 32bit (internal) 1kHz, 4th order LR, Linear Phase (FIR)
Latency:	≈ 30ms
Signal Conversion:	DAC: Dual ESS 9038Q2M ADC: AKM AK 5572
Frequency Response:	30Hz - 20kHz (+- 2db)
Amplification:	Hypex nCore, Class D, 2x 250W
Mains Supply:	100 - 240VAC 50/60Hz
Energy Consumption:	Standby: <0,5W In Use: MAX. 300W
Dimensions (H x W x D):	40 x 22 x 35cm (15.75 x 8.66 x 13.78 inch)
Weight:	13.5 kg (29.7 lbs) each
Warranty:	- 1 year Manufacturer's Guarantee - Lifetime Fair-Repair Warranty

EU Declaration of Conformity

Manufacturer:

Brand Name: AcouLab

Responsible: Noel Neu (Owner)

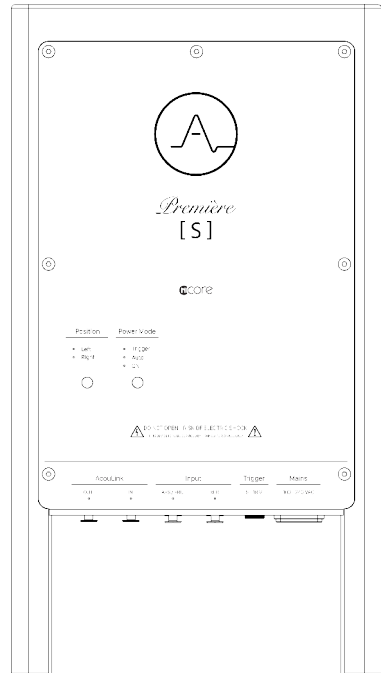
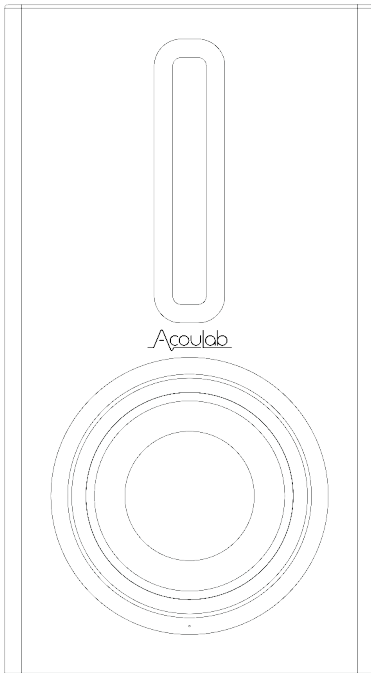
Address: Robert-Dörflinger Str. 4 - 86368 Gersthofen - Germany

Product:

Description: Active Loudspeaker with Motional Feedback & DSP

Type Name: Première S

Depiction:



It is hereby declared that the aforementioned product is in conformity with the relevant union harmonisation legislation:

LV Directive 2014/35/EU

EMC Directive 2014/30/EU

RoHS Directive 2011/65/EU & 2015/863/EU

ERP Directive 1275/2008/EC & 801/2013/EU

Relevant Standards:

IEC60065:2014 + A11:2017

IEC62368-1:2014 + A11:2017

UL62368-1:2014 Ed.2

CSA C22.2#62368-1:2014 Ed.2

Gersthofen, Germany
16. Dec. 2021

Noel Neu, Owner



Place and Date of Issue

Name, Role, Signature