



LYNGDORF



# Technology with a purpose

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The Lyngdorf Audio approach to developing products has always been to implement technologies which are tested, proven, and supported by hard facts. Our technologies are there for a reason, and they make a difference. For more than a decade, Lyngdorf Audio technologies have emerged as some of the greatest developments in sound science.

We created the world's first fully digital amplifier and the most sophisticated room correction technology in existence, and we continue to improve and innovate in everything we do. But don't just take our word for it; ask around. Lyngdorf Audio is the sound of perfection.

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# TDAI-2170 Stereo Amplifier

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Designed, developed, and manufactured in Denmark.

Welcome to music, the way it was meant to be heard. The TDAI-2170 is a stylish integrated stereo amplifier that has set a new standard in sound. In addition to being fully digital and having flexible upgrade modules and RoomPerfect™ room correction technology, the TDAI-2170 provides the formula for a sound experience that has left critics and listeners astounded.

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Digital 1 (Coax)  
Bypass Music 1 -64.0

LYNGDORF

SOURCE / MENU

STANDBY

TDAI 2170



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## The Absolute Sound

"The glories of the Lyngdorf are two-fold: the digital amplification and the RoomPerfect room-correction system...Bass smoothness is improved, channel matching is much better in the frequencies affected most by the room, and stereo imaging as well as the presentation of the original recorded acoustics are significantly better. This is all what should happen with a room-correction system, and happen it does. It is hard to imagine that people won't like this and like it a lot."

"I think the Lyngdorf TDAI-2170 represents the way of the future. And it not only is here now; it is even affordable. The TDAI-2170 is a sonic and practical triumph."



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## Lyd & Billede

"The Lyngdorf Audio TDAI-2170 is an amplifier you simply have to check out if you would like an extremely flexible and powerful amplifier...I am thrilled to have had the opportunity to test an amplifier that not only tries to move boundaries, but succeeds in doing so. Good sound plus a well-thought-out and unconventional concept—it delivers on its promises."

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## Music Emotion

"What a treat! Literally a devil-does-all to get the maximum enjoyment from music...Lyngdorf Audio succeeds with the TDAI-2170 in offering an accessible solution that enables the enthusiast to get the best out of his speakers/music collection."



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## AudioVideo2Day

"The end result leaves a spectacular sound stage, sublime focusing, an enormous level of micro detailing, and chilling dynamics. The sound is super neutral, but the atmosphere and warmth of the recording is transmitted very directly."



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## Hifi & Musik

"The amplifier packs such an elegant, clear, but imperious punch that you nearly fall over backwards...It makes other amplifiers seem dull and tired. This is an impressively open, powerful, and flexible amplifier for the price."

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# RoomPerfect™

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With most systems, more than 50% of the sound you hear comes not from your speakers, but from your room. The placement of your speakers and the shape and dynamics of the room—echoes, reflections, and absorption—have great influence on what you hear.

RoomPerfect™ is the most advanced and user-friendly room correction system in the world. It identifies the characteristics of your speakers and the influence of your room, and it takes the room out of the equation. With RoomPerfect™, your speakers sound exactly as the manufacturer intended them to, not the way your room makes them sound.

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# True Digital

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The TDAI-2170 is 100% digital, without sound-deteriorating digital-to-analog conversions. The digital signal drives the speakers directly, with no translation and no middleman.

This unique and technically demanding solution offers noiseless and crystal clear replay at all sound levels. It will deliver the most enjoyable and uncolored sound you have ever experienced.

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# HDMI®

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With the HDMI® module, you can connect up to four HDMI® devices, including Blu-ray players and other sources, to your TDAI-2170 and have just one HDMI® cable to the TV. Simply let the TDAI-2170 be the central hub for all your devices, with no more nests of cables going to and from the TV. Don't settle for the sound coming from your TV's built-in speakers; it's time for an upgrade.

## CEC

The HDMI® module is CEC compatible, meaning the TDAI-2170 can automatically turn on and off when your TV or connected HDMI® device does. This feature also enables you to use your TV remote to control the volume of the TDAI-2170.

## ARC

The HDMI® module supports ARC (Audio Return Channel), which sends the audio from the TV to the TDAI-2170 through the HDMI® cable. This is the perfect solution if you have a TV with a built-in tuner and you want audio to come from your audio system.

## Hot Tip:

You can use the "SW update" USB connector to power a Chromecast dongle (a media streaming device that plugs into the HDMI port on your TV) or other USB-powered accessories.

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# High-End USB Audio

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Want to run audio from your computer or other streaming device? This module is the prime solution for your digitally stored music.

The High-End USB Audio module will allow for a direct connection from your computer or other streaming device into the TDAI-2170. No external or internal conversion is necessary, thus keeping the stored bit-perfect data in its original form and avoiding degradation of the audio signal. The module accepts high-resolution files up to 384 kHz/32 bit as well as DXD and DSD64 & 128.

The module is compatible with computers running Windows, OS X, and Linux.

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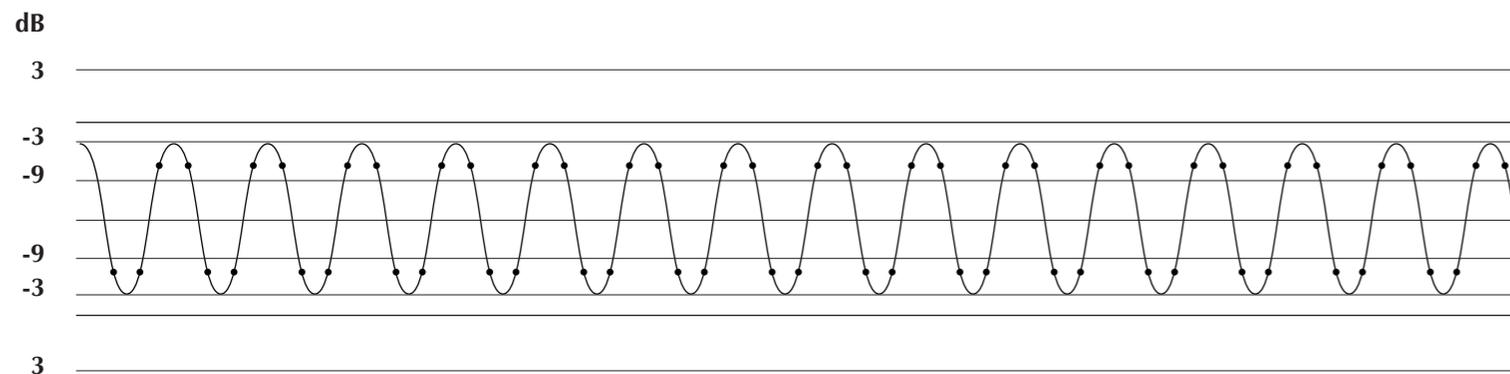
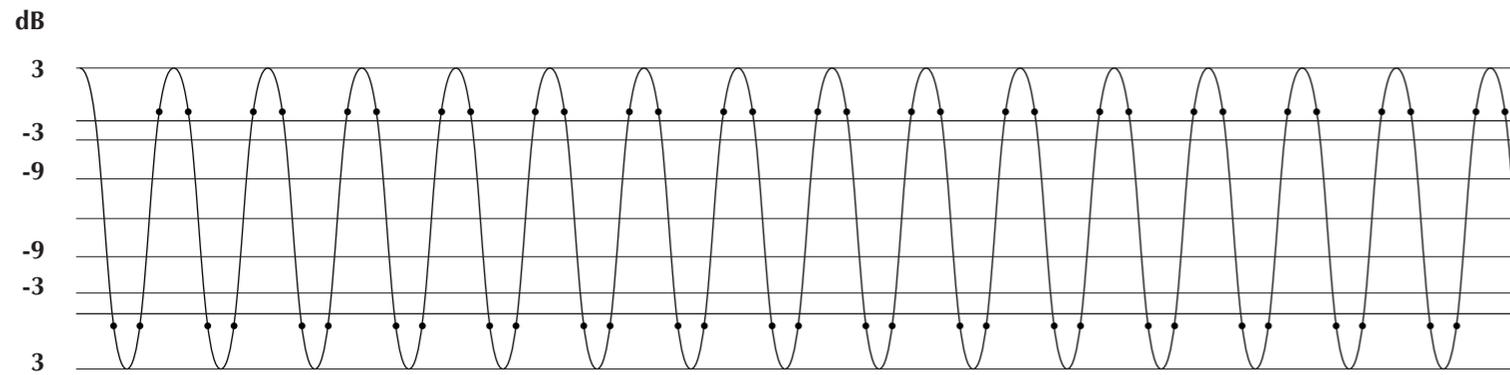
# High-End Analog Input

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Supplementing the standard analog inputs, the High-End Analog Input module is the ideal solution for connecting analog sources of the highest quality. It comprises 3 RCA unbalanced and 1 AES (XLR) balanced inputs. Input selection is carried out via the double gold-plated relays, normally only seen in expensive high-precision measuring equipment. Since analog signal levels can vary considerably, the input sensitivity of each input can be increased by up to 24dB. The sensitivity is adjusted in the pre-amp section before it is fed to the converter, granting full dynamic range for the conversion.

The A/D conversion is performed by an AKM-AK5394A processor, which, with a dynamic range of 123dB, has proven its capacity to convert music to the digital domain in many Lyngdorf Audio designs.

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## ICC – Intersample Clipping Correction

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When music is being mastered, the level is often very high; upon analysis, you will often find several consecutive maximum samples, indicating something has been clipped away from the original signal. Audio that exceeds 0 dBFS (decibels relative to full scale) will sound very compressed because the headroom is nonexistent. This harsh sound is an unfortunate trend in the music industry and is typically referred to as “the loudness war.”

In order to compensate for this, we have created ICC (Inter-sample Clipping Correction). With ICC, the TDAI-2170 can automatically adjust up to 12dB headroom in the signal processing to avoid clipping of the signal. Through this you will enjoy the full dynamic range and a more natural sound.

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# Specifications

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|                        |   |
|------------------------|---|
| POWER RATING           | 2 x 170 W @ 4Ohm  |
| INPUTS                 | 2 x Analog Single Ended RCA<br>2 x Coaxial Digital ( $\leq 192\text{kHz} / 24 \text{ bit}$ )<br>4 x Optical Digital ( $\leq 96\text{kHz} / 24 \text{ bit}$ )  |
| OUTPUTS                | 1 x Coaxial Digital ( $96\text{kHz} / 24 \text{ bit}$ )<br>1 x Single Ended Analog  |
| OPTIONAL MODULES       | <ul style="list-style-type: none"><li>• HDMI Module with 4 inputs (<math>\leq 192\text{kHz} / 24 \text{ bit} + \text{DSD}64 / \text{DSD}128</math>), one output / CEC and ARC compatible</li><li>• Streaming USB Input Module (<math>\leq 384\text{kHz} / 32 \text{ bit} + \text{DXD} / \text{DSD}64 / \text{DSD}128</math>)</li><li>• High-End Analog Input Module (3 Single ended / 1 Balanced)</li></ul> |
| DIMENSIONS (H x W x D) | 10 x 45 x 36 cm<br>3.9 x 17.7 x 14.2 in   |
| FINISH                 | Anodized aluminum, matte black  |
| WEIGHT                 | 8 kg<br>17.6 lb   |

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# CD-2 CD Player

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Designed, developed, and manufactured in Denmark, the pure audio CD-2 provides the unsurpassed performance expected from a Lyngdorf Audio product. Developed with the experience gained from multiple-award-winning Lyngdorf Audio digital amplifiers and CD players, this player is one of the best sounding pure audio CD players on the market.

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3/8

1:26

PLAY / SELECT

EJECT

STANDBY

CD-2



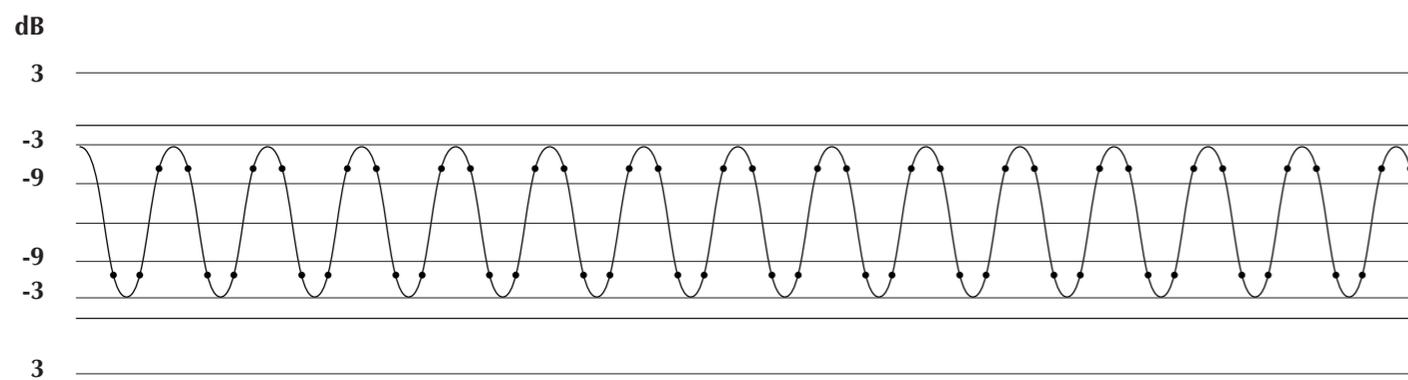
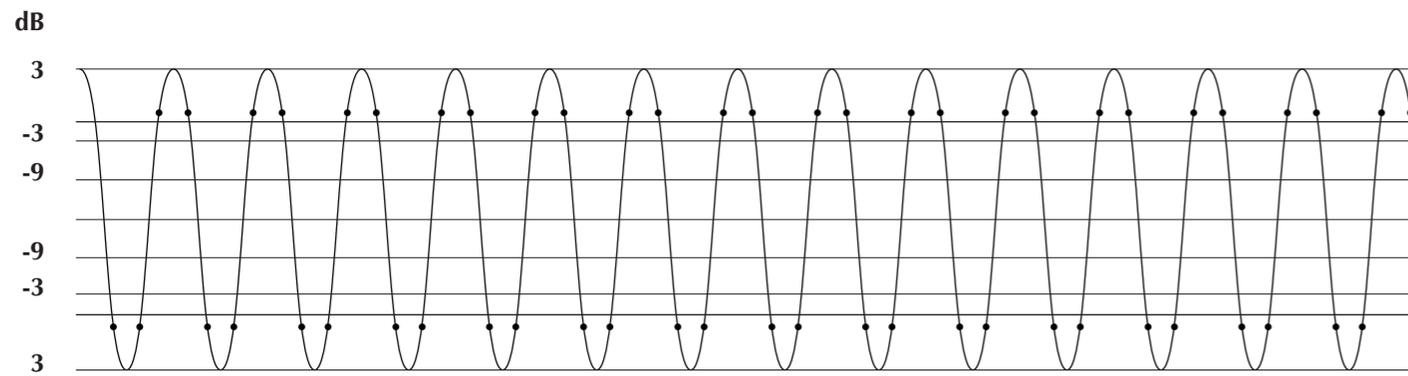
## Pure Audio CD

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The CD-2 is designed for audio only, and for this reason, using a pure audio drive is both simpler and better. All multi-format drives are based on video designs and clocks, and the audio output is then re-sampled (uncontrolled) to audio output clocks. Many choose to optimize the clock on the drive itself, but no matter what you do, ground potentials are difficult to control and the engine control board is noise-inducing.

The Lyngdorf Audio philosophy is to get the audio signal as clean as possible and to do the optimization based on the Lyngdorf Audio precision clock system. Based on previous work with CD players and fully digital amplifiers, we know the do's and don'ts of clock systems. For the CD-2, we have taken the clock from the Millennium Mk IV and implemented it into the CD-2. The key is low phase noise in the audio band.

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## ICC – Intersample Clipping Correction

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When music is being mastered, the level is often very high; upon analysis you will often find several consecutive maximum samples, indicating something has been clipped away from the original signal. Audio that exceeds 0 dBFS (decibels relative to full scale) will sound very compressed because the headroom is nonexistent. Sadly, this harsh sound is often related to digitally stored music, as compared to the sound of vinyl. In the CD-2 we reduce the gain with 3 dB; thus, you will enjoy the full dynamic range and a more distortion-free sound.

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# Sample Rate Converter

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Resampling the output of the CD drive to a low-noise clock suppresses the level of jitter artifacts in the output signal to an absolute minimum. Our state-of-the-art sample rate converters, using special low-noise design techniques, enable the CD-2 to upsample the digital output of the audio drive to a selectable output rate. A major advantage of this is that you can adjust the output for the optimum operating point of a D/A converter. The digital output can deliver 24-bit resolution at a sample rate up to 192 kHz. The analog output section is upsampled in a parallel process to 96 kHz.

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# D/A Converter

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The D/A converter section (also used in the Millennium Mk IV) is used to drive a high-quality, single ended, and balanced output stage. The D/A converter is built around the Wolfson WM8740 chip. This, in combination with our balanced design and very fine audiophile op-amps, results in outstanding sonic qualities.

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# Specifications

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|------------------------|--|
| OUTPUTS                | 1 x Coaxial Digital (galvanic isolated)<br>1 x Optical Digital<br>1 x Analog Single Ended RCA<br>1 x Analog Balanced XLR |
| FREQUENCY RESPONSE     | 20 – 20k Hz, +/- 0.02dB  |
| THD + N                | 0.0018%  |
| SAMPLE RATES           | 44.1kHz, 16 bit<br>48/96/192kHz, 24 bit  |
| DIMENSIONS (H x W x D) | 5.8 x 45.0 x 37.5 cm*<br>2.3 x 17.7 x 14.8 in*<br>*incl front knob and connectors  |
| FINISH                 | Anodized aluminum, matte black   |
| WEIGHT                 | 6.1 kg<br>13.5 lb  |

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# SDA-2400 Power Amplifier

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The versatile SDA-2400 digital stereo power amplifier features both analog and digital inputs and optional rack mounts, as well as a range of novel features to deliver outstanding performance in a wide range of applications.

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SDA-2400



# Incredibly Versatile

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The SDA-2400 includes both traditional balanced and single-ended analog inputs in addition to digital inputs to cover any need. This power amplifier can function in a traditional stereo and multichannel setup—but also as a powerful addition to single standing media players and streaming devices with integrated volume control.

The inputs are based upon the Wolfson WM8804 PLL Transceiver for excellent dynamic performance and improved tolerance to clock jitter.

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# Smart Power

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The SDA-2400 has no on/off button. It will automatically go into stand-by mode when not in use. When a signal is detected, the amplifier will turn on automatically.

If your connected device has a 12V trigger output, you can set the amplifier to be always on; then, with the trigger, you can control the power state of the SDA-2400, and even daisy-chain several SDA-2400 amplifiers.

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## Digital Amplification

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Lyngdorf Audio has been a pioneer in digital amplifiers, and the SDA-2400 power amplifier is not your typical Class D digital power amplifier. It's better. It has very low and linear distortion and an impressive signal-to-noise ratio, making it the perfect choice for those seeking the purest sounding high-power amplifier on the market.

The output stage uses Pulse Width Modulation with a patented switch speed optimization technology. This ensures low and linear natural distortion and less feedback compared to typical Class D amplifiers. And because it is digital, you will not experience distortion related to analog processing. There will be no interference or noise from external sources.

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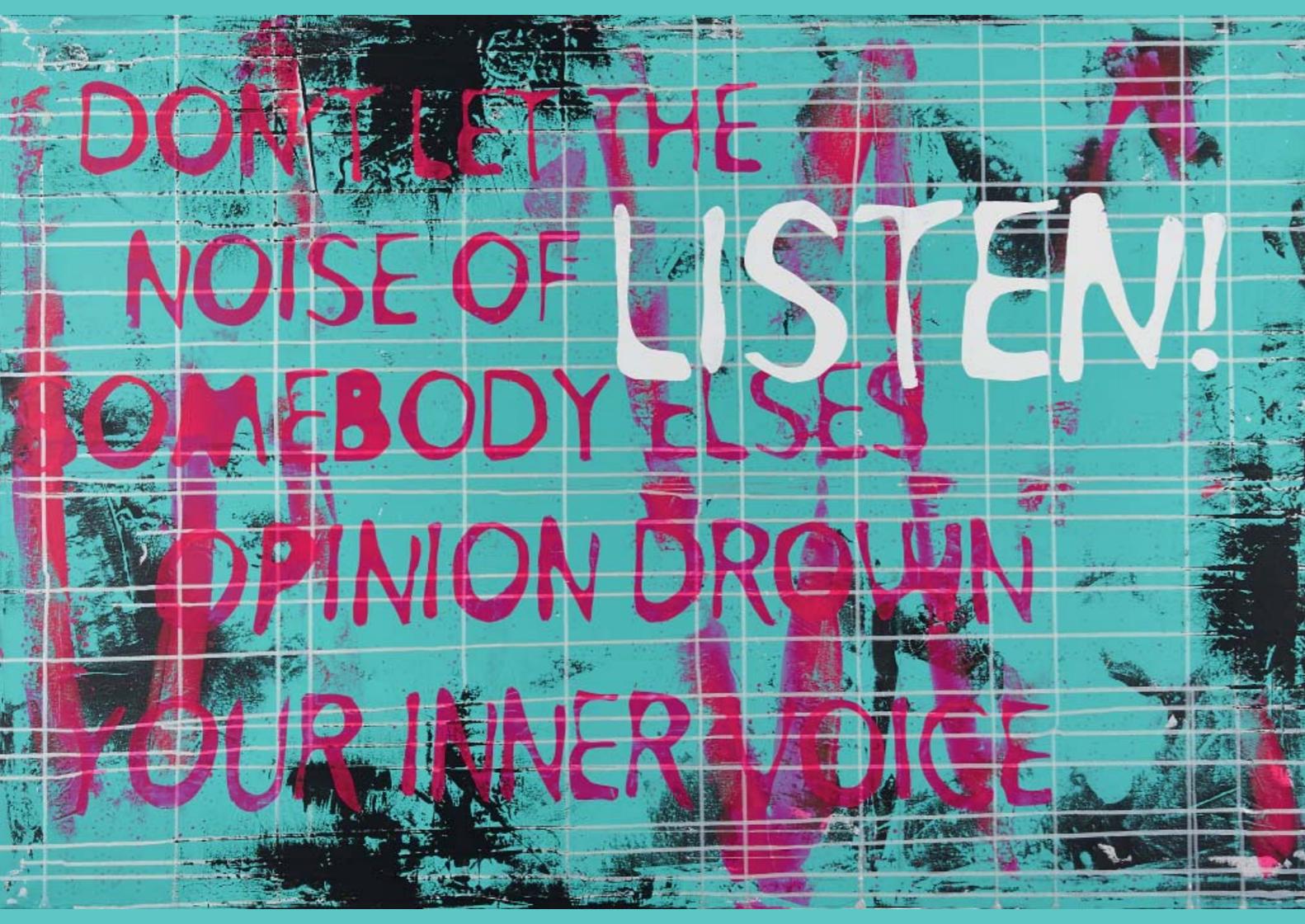


# Specifications

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|                        |   |
|------------------------|---|
| POWER RATING           | 2 x 400 W @ 4Ωm   |
| INPUTS                 | 1 x Analog Single Ended RCA<br>1 x Analog Balanced XLR<br>1 x Coaxial Digital<br>1 x Optical Digital<br>* All inputs has signal detection |
| POWER MODES            | Input detection<br>Always on  |
| TRIGGER (12V)          | 1 x Input<br>1 x Output   |
| DIMENSIONS (H x W x D) | 45 x 4.5 x 36 cm<br>17.7 x 1.7 x 14.2 in  |
| FINISH                 | Anodized aluminum, matte black  |
| WEIGHT                 | 6.5 kg<br>14.3 lb   |

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DON'T LET THE  
NOISE OF LISTEN!

SOMEBODY ELSE'S

OPINION DROWN

YOUR INNER VOICE



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