

LYNGDORF AUDIO TDAI-3400

OWNER'S MANUAL

Table of Contents:

Compliance	3
Pre-installation.....	3
Unpacking the product.....	3
Home automation system integration	4
Front panel	5
Rear panel.....	6
Remote control	7
Initial setup procedure	8
Menu structure TDAI-3400	9
Home screen / IP interface	10
Input setup.....	11
Output setup.....	12
Introduction to RoomPerfect™	14
RoomPerfect™ setup	15
Voicing setup.....	19
Audio setup	20
HDMI setup	20
Streaming setup	21
Streaming playback interface	21
General setup.....	23
Network setup	24
How to pair remote control in bluetooth mode.....	24
Manage software.....	24
Troubleshooting.....	25
Wired network setup.....	26
Cleaning and maintenance.....	29
Specifications	30

Compliance

WEEE

The European Parliament and the Council of the European Union have issued the Waste Electrical and Electronic Equipment Directive. The purpose of the Directive is to prevent waste of electrical and electronic equipment and to promote reuse, recycling, and other forms of waste recovery. Lyngdorf products and the accessories packed with them are subject to the WEEE Directive. Please dispose of any waste materials in accordance with your local recycling regulations. Products and equipment which must be collected for reuse, recycling, and other forms of recovery are marked with the icon of the crossed-out waste receptacle.



FCC

Lyngdorf products and accessories comply with parts 15 and 68 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference; and (2) this device must accept any interference received, including any interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Equipment marketed to a consumer must can comply with the necessary regulations in the configuration in which the equipment is marketed.

Pre-installation

Please read all material carefully prior to installation. If you need additional assistance, contact your Lyngdorf Audio representative.

Unpacking the product

Carefully remove the unit and accessory kit from the carton and check for shipping damage. Contact the shipper and your Lyngdorf Audio representative immediately if the unit bears any sign of damage.

Warning:

Never rest the TDAI-3400 on the front, as the volume wheel cannot handle the weight!

Keep the shipping carton and all packing material for future use. If this unit is shipped without the original packing, damage could occur and void the warranty.

Inventory

Check the list below to ensure that all necessary product components have been delivered. Report all discrepancies to your Lyngdorf Audio representative immediately.

- Owner's manual
- Power cord
- Remote
- Microphone
- Microphone stand
- Microphone cable
- Microphone adaptor (XLR to mini-jack)

Operating voltage

Lyngdorf Audio products must be connected to the mains power. The TDAI-3400 will not automatically detect the voltage, so check and set the operating voltage on the switch next to the mains plug.

Ventilation requirements

The TDAI-3400 does not have a built-in fan, nor does it require special measures to ensure proper heat dissipation. It should be placed according to these guidelines:

It should always have at least one inch / 25mm of free space on all sides.

It should be placed in an environment free of excessive heat.

Home automation system integration

The TDAI-3400 is compatible with home automation systems via the RS232 and network connector on the rear socket panel. The TDAI-3400's trigger connections can also be programmed for use in a home automation system.

IP control

Connect the TDAI-3400 to your local network. Pressing the OK button on the remote and toggling through settings, the TDAI-3400 will display the IP address allocated to the TDAI-3400.

Open a TCP connection on port 84 and use the same protocol as on the serial interface. Use Telnet, Putty, or a similar program to open the TCP connection.

Preparing the TDAI-3400 for Mounting in a Rack

The TDAI-3400 processor is equipped from the factory with feet for free-standing placement, but rack-mounts are available as optional accessories.

To install the TDAI-3400 in a rack:

1. Turn the TDAI-3400 upside-down and place it on a stable, even surface.
2. The screws used to fasten the rack brackets to the bottom of the TDAI-3400 are in the holes designated for the brackets when the product leaves the factory.
3. Fasten the brackets for rack mounting to the TDAI-3400.
4. Mount the TDAI-3400 in a rack.

Front panel



On the front of the TDAI-3400, you will find the display, controls and a few connectors:

Left to Right:

- Display
- Dial for changing source. Long push for entering the menu system
- WiFi and Bluetooth antennas
- 1 x USB A media input
- 1 x Microphone input for RoomPerfect calibration
- 1 x Headphone output
- Dial for Volume Control
- Stand-By switch

Warning:

Do not use the USB ports for charging smartphones, hard-drives or media players.

Hot Tips:

When you toggle through Info, you can press 'Menu' for revealing a peak meter.

in case the signal through the output stage is clipped, the dot in the volume indication will blink, indicating that your speakers are at risk for overload due to distortion.

Rear panel



On the back of the TDAI-3400, you will find a range of inputs and output connectors:

Top Row / Left to Right:

- Optional Module with 3 x single ended and 1 x balanced analog audio inputs
- Optional Module with 3 x HDMI inputs and 1 x HDMI output, all 4K /HDR compatible
- Speaker Outputs







Low Row / Left to Right

- 2 x single ended analog audio inputs
- 1 x single ended analog audio output
- 1 x balanced analog audio output
- 1 x USB B streaming audio input
- 1 x AES/EBU digital audio input
- 2 x coaxial digital audio inputs
- 3 x optical digital audio inputs
- 1 x coaxial digital audio output
- 1 x USB A connector for music file playback, software updating, etc.
- 1 x SD card slot for storing backup data
- 1 x RJ45 LAN connector for connection to local network
- 1 x RS-232 connector for serial control of the unit
- 1 x trigger input and 1 x trigger output
- 1 x Main voltage connector with voltage switch and on/off switch

Note: Do not use the USB ports for charging smartphones, hard-drives or media players.

Remote control

The TDAI-3400 comes with a dedicated remote control, which can operate both with radio frequencies (Bluetooth LFE) and infrared control (IR)

Display	Changes the read-out on the front display
	Turn the TDAI-3400 on and into standby
Info	Reveals information on input signal
Trim	Adjusts Balance and Bass / Treble levels
Up/Down	Move up and down in menus. Browse available settings in a menu. Toggles between the available RoomPerfect™ filters.
Left/Right	Move left and right in menus. Toggle between neutral and the available voicings.
Select	Select a menu and store a selected setting.
Back/Exit	Return to the previous menu.
Menu	Access the user menu.
	Turn volume up and down.
	Mute and restore the sound send to the headphones
	Mute and restore the sound in the speakers
SRC +/-	Toggle between active sources.
	Play/pause the currently playing track in the media player.
	Skip in the current playlist in the media player.



Initial setup procedure

Set up the TDAI-3400 integrated amplifier by following these steps:

1. Connect the speakers to the Speaker Output connectors.
2. Connect all external equipment, audio and video, mains power, etc. to the TDAI-3400.
3. If possible connect the TDAI-3400 to your local network with an ethernet cable.
4. Switch on the TDAI-3400 and all connected equipment.
 - The TDAI-3400 will boot and go into Stand-By.
5. Switch on the TDAI-3400.
6. The TDAI-3400 will initially want to connect to your local network
 - If connected by network cable (LAN) the TDAI-3400 will automatically connect and display the IP network reference.

For using iPhone or iPad:

If no wired network is attached, the TDAI-3400 will want to connect via WiFi – referring to “Apple WiFi Accessory Configuration”.

- Open the Wi-Fi settings on your iPhone/iPad – and you will find the TDAI-3400 under ‘Setup New Airplay Speaker’.
- Change the device name of your TDAI-3400, press Next, and the TDAI-3400 will copy the Wi-Fi settings from your phone.

For using Android phone or tablet:

The TDAI-3400 will establish a soft access point. Type 192.168.110.42 in your browser to access the manual Wi-Fi setup.

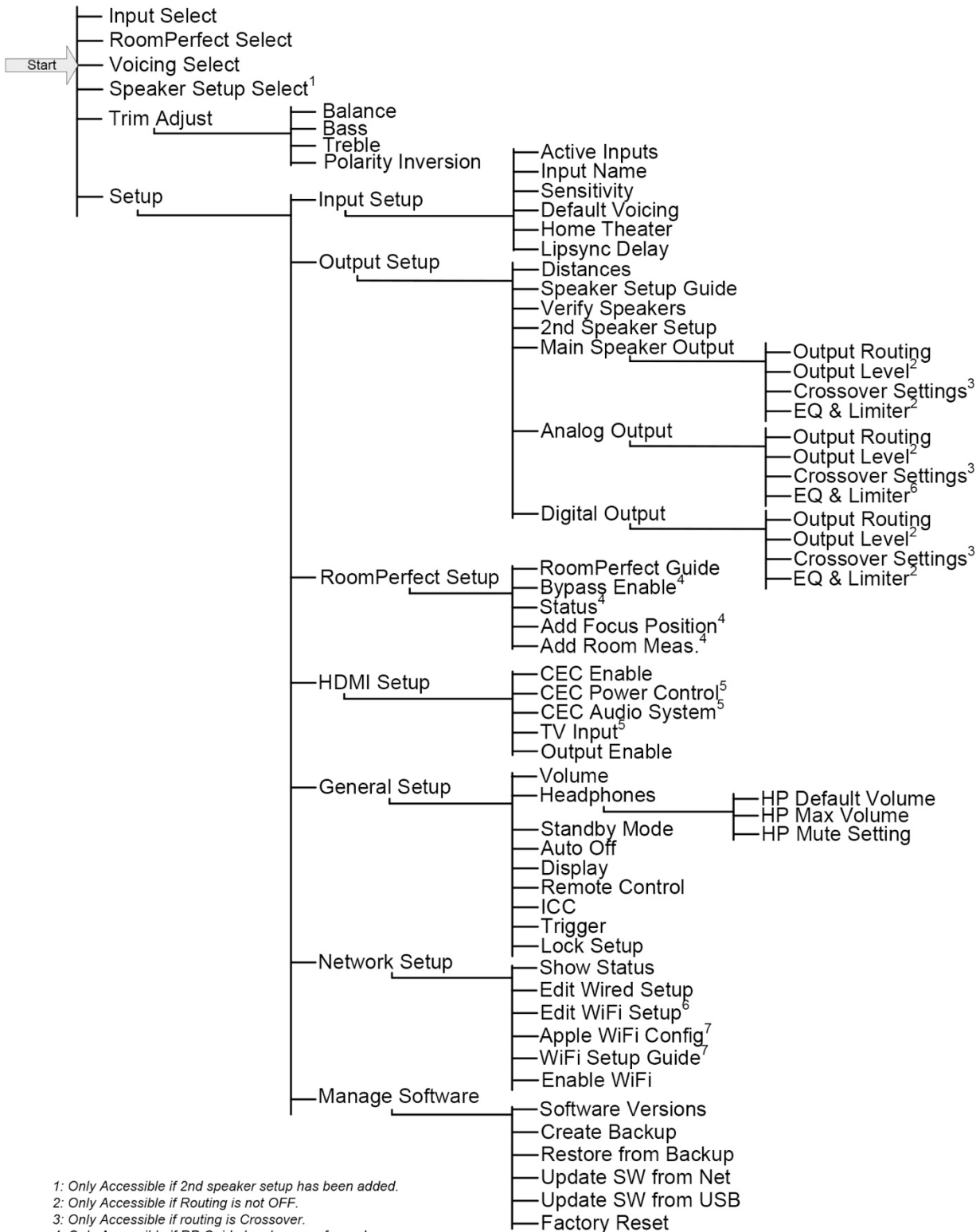
Without iPhone/iPad you can manually enter all data or use the WPS function to pair the TDAI-3400 with your Wi-Fi router. (Select WPS and go and press the WPS button on your router)

You can now choose to continue the setup via the display or via web interface (see next page)

- Access the speaker setup guide and verify your setup by selecting your speaker types
 - If you select ‘Custom’ speakers, you will have more EQ options. See later section.
- Access the RoomPerfect™ setup guide and calibrate your speaker setup. See later section.

If you at any point do not want to continue doing setup or calibration, then exit the menu by a long push on the menu button. The TDAI-3400 will now have a basic stereo setup, and you can play music.

Menu structure TDAI-3400



1: Only Accessible if 2nd speaker setup has been added.

2: Only Accessible if Routing is not OFF.

3: Only Accessible if routing is Crossover.

4: Only Accessible if RP Guide has been performed.

5: Only accessible if CEC enabled.

6: Only accessible if WiFi enabled and connected.

7: Only accessible if WiFi enabled.

Home screen / IP interface

Installation and operation via IP interface

With the TDAI-3400 connected to your local network, on the remote press INFO twice to reveal the IP address allocated by the router. Open a browser and write the IP address to access the TDAI-3400.

If you are using an apple product you can also access the device by entering <http://tdai3400.local/> in your browser.

As default the TDAI-3400 will use a dynamic IP address. If you want to use a static IP address, you can set this at any time in the Network Setup menu.

If the TDAI-3400 is still in initial setup, you will be guided through the procedure just like on the display operation.

The HOME screen refers to the daily operation as performed with the remote control. The page displays selected input and formats and you can control the volume setting

The HEADPHONES section can be accessed, when a pair of headphones are connected to the TDAI-3400 through Bluetooth or cable. Here you can adjust volume settings and mute the output.

The SETUP section will be described in the following pages.

The interface for controlling the built-in media streamer is found in the bottom section of this page. For information as to the use of the interface see section for Streaming Setup.

Hot tip: On your mobile device the Home Screen page can be saved as an icon for swift access to operation of the TDAI-3400.

Input setup

In the Input setup menu, you can adjust the settings for the signal coming from each input.

Input name

You can change the name to refer to the equipment connected to the input

Enable input

Enables and disables individual inputs so you do not have to scroll through unused inputs.

Enable theater mode

Turns the amplifier into a dedicated power amplifier for the source to this input. This feature bypasses the volume control. This feature might be selected if you are using the TDAI-3400 in a home theater setup where it is used to power and calibrate the front speakers and/or subwoofer. Connect your home theater processor to the selected input. When selecting other inputs, the amplifier returns to the last current volume.

Warning: Do NOT test this setting with a CD player or similar unregulated signal!

Sensitivity

Enables you to match levels from different inputs. Can be adjusted up to +24dB.

Voicing

Select the default voicing. See later section for designing voicings.

Input delay (Lipsync offset)

Set delay time in milliseconds to ensure that the video and audio signals are played back simultaneously.

Preset vTuner station

When selecting vTuner Internet radio stations for presets, they will automatically appear as inputs. (The interface for controlling the built-in media streamer with vTuner is found in the bottom section of the HOME page)

To save changes, you must press "Save" after making changes to a single input. Do not go to the next input before saving changes.

Output setup

In the output setup menu, you can change the initial speaker setup.

Main speakers

Select the design of speakers connected to the speaker outputs of the TDAI-3400.

Selecting a Lyngdorf speaker will load an equalizing filter designed to optimize the performance of this speaker in relation to the selection of sub speaker selected. Selecting 'Custom' will open new settings allowing you to design your own equalizing filter.

Line out / Sub speakers

Select the design of speakers for handling the lower frequencies (Sub frequencies) connected to the analog or digital outputs of the TDAI-3400. Analog and digital outputs can have their individual setup and crossover.

Verify speaker setup

This function will send out a signal to each speaker for verifying the wiring.

Add 2nd speaker setup

Here you have the option to store a second speaker setup. This will allow you to test another setup or to have two calibrated setups - example with and without a subwoofer.

Enabling this will start the Guided Speaker Setup. When complete, the menu item Speaker Setup will be available in the main menu, allowing you to switch between the two setups.

Switch units to inches/centimeter

Changes the input to correct unit of length.

Enable limiter

Normally increasing the volume setting of any amplifier above the nominal specification will allow for higher levels – just with higher distortion levels. Enabling the limiter will ensure that no matter the overall volume setting, the output stage of the TDAI-3400 is not distorting.

Routing (for custom speakers)

The available settings are:

- Full-range allows the signal to pass unfiltered.
- Crossover will open for other menus for specifying the signal routing

Level

Reduce the signal level for this output with up to 24 dB to match the levels between the speakers.

Eq

Select any of the built-in equalizer filters or select 'custom' for designing your own filter to optimize the sound from your speakers.

Filter

Sets the type of filter to be applied to this output

- High pass - removes the frequencies below the crossover frequency.
- Low pass - removes the frequencies above the crossover frequency.

Filter type

Sets the type of crossover to be applied to this output

- LR: (Linkwitz Riley) 2nd, 4th or 8th order.
- BW: (Butterworth) 1st, 2nd or 4th order.

The references LR and BW refers to the inventors of modern crossover designs. The filter order refers to the way the high pass and low pass outputs interact.

In setups using conventional active subwoofers, we recommend using a 2nd order Butterworth filter.

In active speaker systems, we recommend starting with a 4th order Linkwitz Riley filter.

Frequency (Hz)

Sets the crossover point for the filter type selected.

Distance

To have sub and speakers interact correctly, they must be in phase, so that the part of the music coming from the sub arrives to the listening position at the same time as the sound from the front speakers. Measure the distances from the preferred listening position (the focus position) to the front of the speakers.

When measuring the distance to a sub, measure from the preferred listening position to the wall or corner behind the sub. As the sub is omnidirectional at frequencies below 80 Hz, the acoustic centre of the speaker must consider the reflection from the wall or corner.

*Always perform a new RoomPerfect™ calibration,
when you have changed settings in the Output setup.*

Introduction to RoomPerfect™

It is very difficult to design a perfect listening environment with a symmetrical setup and a perfect reverberation time without vibrating surfaces like windows. A traditional setup of speakers requires uneven distances to back and side walls to avoid having the reflections arrive to the listening position at the same time, as this would have a negative effect to the frequency response. Having strong reflections after each other is though causing smearing of the sound and reduces the overall dynamic performance.

RoomPerfect™ is designed to analyze and correct for the negative effects that the listening room has on the speaker sound. Correcting the frequency response only, the setup of speakers should focus on having the optimal dynamic performance by positioning all speakers as close to the back wall as possible – and the sub(s) preferably into the front corners of the room

Other correction systems will at their best offer a range of target curves for the calibration, whereas RoomPerfect™ will identify the sound properties of your speakers and use these for the calibration.

RoomPerfect™ is therefore not just an equalizer, but in fact the only true room correction system.

*If you want to change the target curve (the tonal balance of your speakers) for the calibration, you can enter your own pre-eq filter design under the Output Setup.
RoomPerfect™ will then clean up the new tonal balance.*

Global filter

The global filter improves sound quality across the whole room. When you are moving around a room, the global filter gives the best result.

Focus position

The focus filter improves the sound quality at a specific listening position. This makes the focus filter the best solution for optimal sound quality at a single listening position. A total of 8 focus positions can be stored after the initial calibration

See our website www.lyngdorf.com for more detailed information.

RoomPerfect™ setup

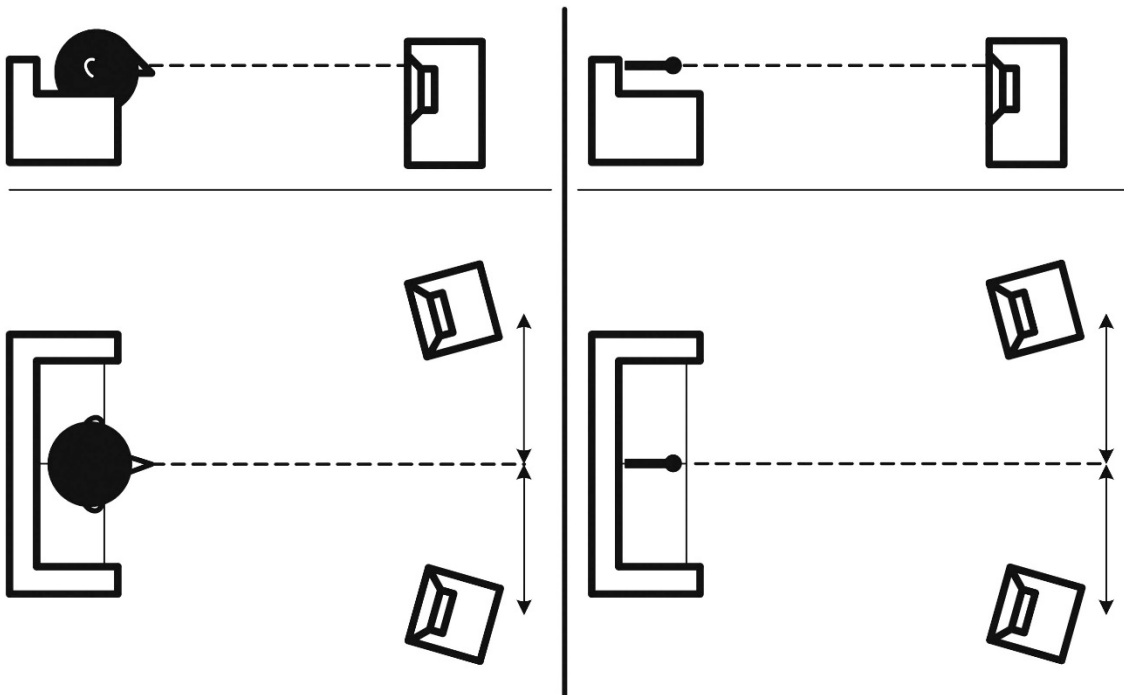
The RoomPerfect™ microphone is a very sensitive and finely calibrated device which must be treated with utmost care. If the microphone has been dropped on the floor, it may be damaged. If this is the case, obtain a new microphone from your Lyngdorf Audio representative before performing the system calibration.

RoomPerfect™ preparations

- Place the RoomPerfect™ calibration microphone on the stand. Be sure to fasten the screws properly so the microphone does not move during a measurement.
- Plug the supplied microphone cable into the microphone.
- Connect the microphone cable to the TDAI-3400 using the included mini-jack connector.

Placing the microphone in the focus position

When you are prompted to place the microphone in the focus position, connect the microphone to the microphone input on the front of the TDAI-3400 and place the microphone, using the microphone stand, in your primary listening position. The height and the orientation of the microphone should correspond to your head's height and direction.



Volume setting

Press Enter and a test signal will start from the left speaker. The system will give an estimated optimal volume for calibrating the system or will accept the current volume. Adjust the volume if required by the system and retry the measurement.

The calibration volume should not be so loud that it is inconvenient to you, or that it causes damage to your loudspeakers. If this is the case, set it to a lower and more appropriate level. A low volume can result in a longer calibration time or a measurement time-out. A low volume and long measurement will not affect the quality of the result.

Measuring the focus position

When the calibration volume has been set, RoomPerfect™ will send a range of pure tones to measure the focus position. If there is noise in the room, the measurement may take longer. This will not affect the quality of the result.

See RoomPerfect™ troubleshooting if the measurement stops prematurely, and then retry the measurement.

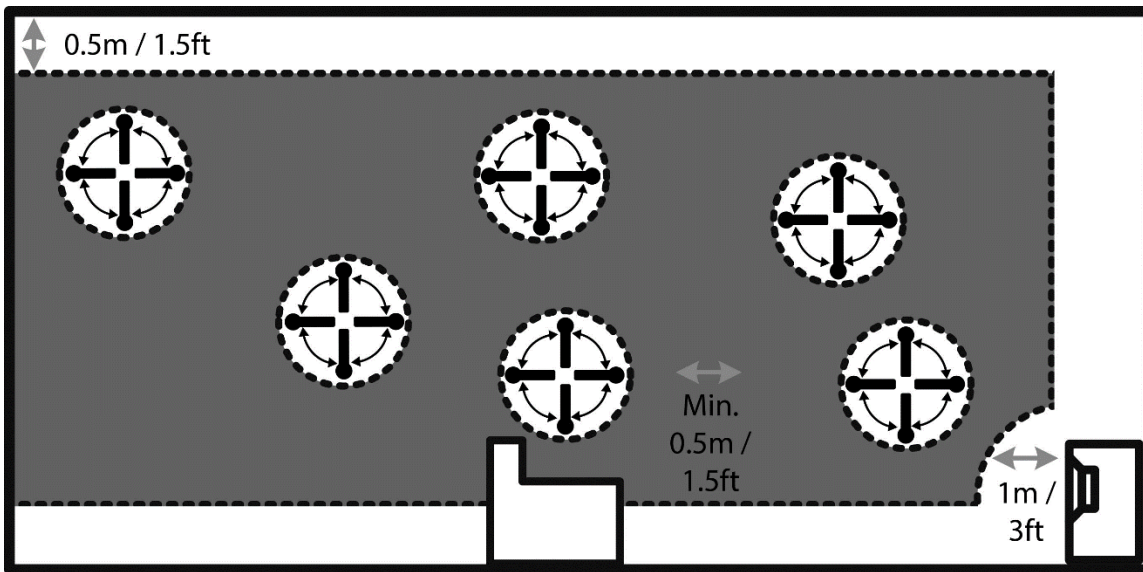
Measuring random room positions

When the focus position has been measured, the next step is to measure the acoustical properties of the room. It is important to perform well spaced measurements to get a comprehensive image of the acoustical properties of the room. See RoomPerfect™ troubleshooting if the measurement stops prematurely.

Keep taking measurements until RoomKnowledge reaches 90%.

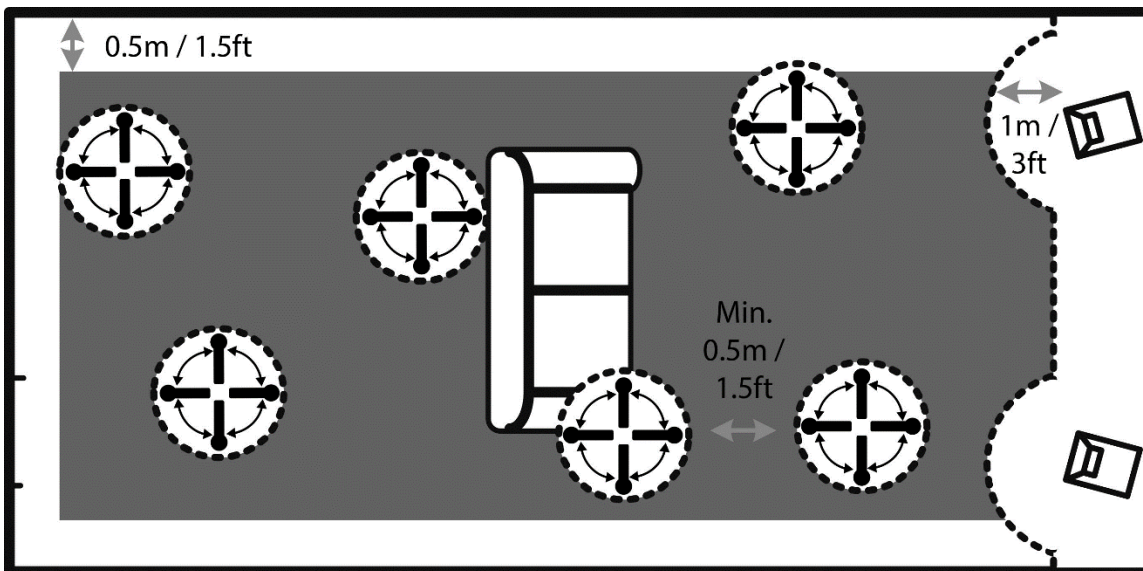
These are the rules of thumb when measuring the room:

- the microphone should be in random and varying positions, heights, and orientations. Point it up/down/sideways, the more random positions the better.
- the measurements should cover the primary listening area.
- do not take measurements behind plants, furniture, etc.



Side view of room

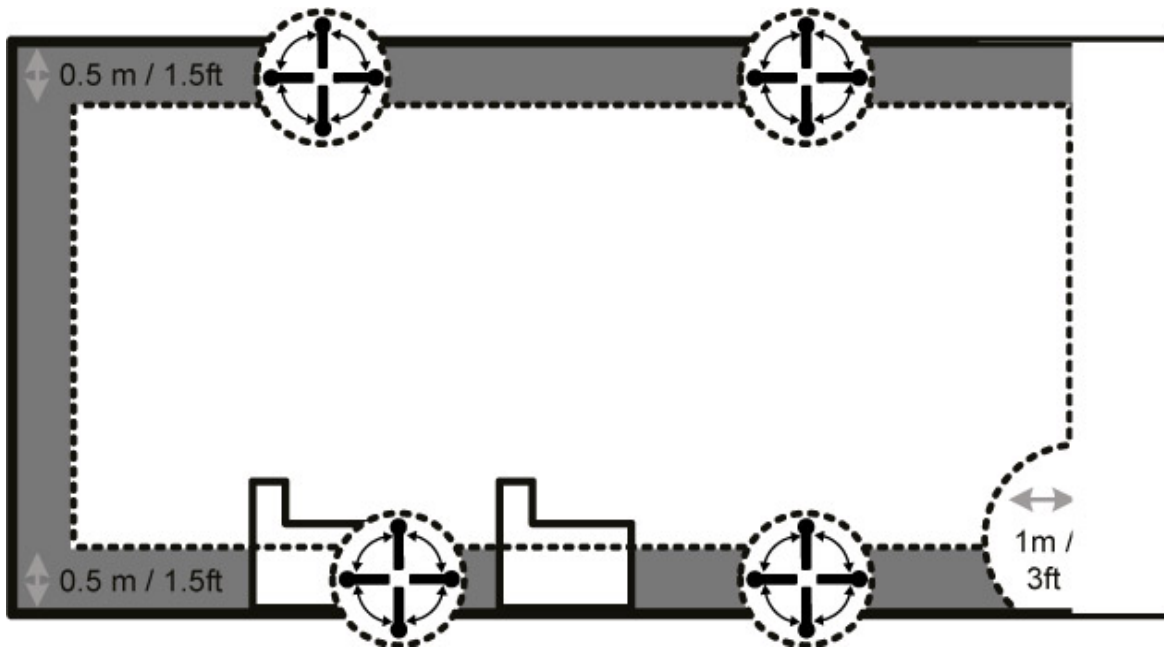
- the microphone should not be closer than 0.5m/1.5ft from the floor, ceiling, and walls.
- the microphone should be at least 1m/3ft from the front of the loudspeakers.
- there should be at least 50cm/1.5ft between each measurement.
- do not take symmetrical measurements in the room.



Top view of room

Room measurements above 90% RoomKnowledge

When RoomKnowledge has reached 90%, it has enough information to do a calibration. You should exit the calibration and test the results. You can always add room measurements to increase the RoomKnowledge, and if you have a bit too much bass, we recommend taking a couple of measurements within 50cm/1.5ft of the walls and ceiling when above 90% RoomKnowledge.



To fully optimize the systems understanding of the room's acoustical properties, we recommend you keep doing measurements until the RoomKnowledge is above 95%. The higher the RoomKnowledge, the more accurate the room correction filters will be.

Calculation of Focus and Global Filters

When room measurements are complete, the system will calculate the focus and global filters automatically.

NOTE: We recommend that you ALWAYS take a backup of TDAI-3400 settings after having performed a RoomPerfect™ calibration (see Manage Software in the Setup section)

Voicing setup

A voicing is an equalizer filter that can be activated to amplify or attenuate certain frequencies according to your personal preferences for use with specific sources or music genres. This equalization is an addition to speaker equalization and the RoomPerfect™ correction filters related to the specific media.

Through the web interface voicings can be edited, deleted or added in the TDAI-3400.

Editing and adding voicings

A voicing can combine up to eight filter sections. For each section, you can choose between parametric or high and low shelves as well as high and low-pass filters. Once the filter type is selected, you can insert a center frequency, Q (slope), and negative gain. Then the filter, including the final voicing, is shown as a graph so that you can immediately see the result.

Overall gain is the adjustment for having the various voicings sound as were they with the same level.



Audio setup

Enable ICC

Audio signals that exceed 0 dBFS (decibels relative to full scale) will be clipped when processed in the audio chain and will result in distortion. With ICC (Intersample Clipping Correction) the TDAI-3400 will dynamically allow for extra headroom to avoid clipping during processing the music.

ICC can be set to enabled or disabled. The TDAI-3400 will monitor and increase the ICC to avoid signal clipping. Changing inputs or going into standby mode will reset the ICC level.

Show RoomPerfect™ bypass

If you want to discover what effect the calibration has had on your sound, you can activate a bypass function, which now can be selected on your remote control.

Mute at power on if headphones are connected

This function allows you to control, if the headphone connector should control the mute function on your speakers.

Main volume control / Headphones volume control

These settings control the overall output through your main speaker system / headphone output

Maximum volume

The maximum volume setting is a safety precaution used for limiting the maximum volume which can be achieved by spinning the wheel or increasing volume via the remote. This can be set to protect your loudspeakers against overload.

Default volume

The default volume setting controls the default volume at start-up

HDMI setup

What is CEC?

Consumer Electronics Control (CEC) is an HDMI feature designed to allow you to command and control CEC-enabled devices that are connected through HDMI, by using only one of the remote controls (for example, controlling the volume level in the TDAI-3400 by using the remote control of the TV).

The level of CEC implementation depends on the manufacturer of each product, and even if brand new, not all electronic devices supports CEC. As the television is 'CEC master' in a HDMI setup, the CEC implementation of the television will determine, what is possible for the entire system.

Enable CEC

Enables and disables CEC (Consumer Electronics Control) over HDMI.

HDMI output

When enabled, this feature will send the current digital audio signal through the HDMI cable to the TV.

This feature requires that the digital output has been configured under the Output Setup menu. The digital output should be set to Full-range and Full-scale.

Note: As default, CEC is not activated on HDMI to comply with stand-by power regulations. CEC functionality only works with the TDAI-3400 set in Network Stand-by.

Streaming setup

The TDAI-3400 can access radio stations from the internet, music files on your local network or on a USB drive or you can stream music to the TDAI-3400 from your mobile devices.

In this menu you can configure the basic setup of the music streaming:

- Streaming players can control volume – set to Off or On
- Streaming players can change input source – set to Off or On
- Streaming players can power on the device from standby mode – set to Off or On

Streaming playback interface

The setup of the streaming player is done in the interface positioned in the HOME section of the web interface.

Roon

When the TDAI-3400 is connected to your local network, it will automatically be available from Roon enabled devices (requires a Roon account)

UPnP

This function allows you to select and play music files in UPnP enabled libraries on your local network. The button '..' brings you up in the menu structure of your library.

You might have problems in accessing files as UPnP a set of protocols and not a defined standard. The implementation of UPnP is therefore not always fully functional for media playback.

USB

This function allows you to select and play music files on attached USB devices.

The button ‘..’ brings you up in the menu structure of your library. It opens when an USB device is detected in any of the inputs.

vTuner

This function allows you to access internet radio stations and podcasts around the world. You can search stations and podcasts through references to genre or geographical relation.

When a station or podcast is playing, you can assign it to one of the 10 presets, and it will now automatically appear as a new input for direct selection.

Airplay

When the TDAI-3400 is connected to your local network, it will automatically be available for playback from your Airplay enabled devices.

Spotify Connect

When the TDAI-3400 is connected to your local network, it will automatically be available from your Spotify Connect enabled devices (requires a Spotify Premium account).

Listen out loud with Spotify Connect:

1. Connect your TDAI-3400 to your wifi network
2. Open up the Spotify app on your phone, tablet or laptop using the same wifi network
3. Play a song and select Devices Available.
4. Select your TDAI-3400 and start listening.

The Spotify Software is subject to third party licenses found here: www.spotify.com/connect/third-party-licenses.

STREAMING FROM PC OR MAC

Installing the USB streaming audio driver

To stream high quality audio from a Windows PC to the TDAI-3400, you need to install the Windows driver on your PC. The driver can be found on the product page of www.lyngdorf.com. Mac and Linux users do not need to install any drivers to stream audio to the TDAI-3400.

Using the USB streaming audio input

To stream music to the TDAI-3400, connect a USB cable between the computer and the ‘USB Audio In’ connector of the TDAI-3400. Select “USB” as input on the TDAI-3400 and start playing music on your computer.

General setup

POWER MANAGEMENT

Standby level

Network Standby will allow control systems to activate the TDAI-3400 through the network. Deep Sleep brings the power consumption at stand-by to an absolute minimum.

Auto off delay

If you don't press any buttons or audio isn't being played, this sets the idle time required for automatic shut-down of the amplifier.

Trigger input function

The trigger input can be used to activate the TDAI-3400 from a source.

The available settings are Amp. Power Mode or a specific input.

- Amp. Power Mode will start the TDAI-3400 on the input last used.
- Always select specific input

Note: If the DAI-3400 has been switched to another input, the trigger command from the source connected will NOT turn off the amplifier.

DISPLAY SETTINGS

Brightness level / Set the brightness of the display.

Enable timeout / If enabled, the main display will switch off after 10 seconds of inactivity

Password / Lock the menu system to avoid unintentional changes. Unlock the menu system by entering the code 7800. When the code has been entered, and you exit the setup menus, the menu lock will reactivate automatically after 5 minutes

Remote control / Activate or deactivate the remote control. This function is useful if you are using a home automation system and other remotes are using the same IR codes as the TDAI-3400 remote.

Network setup

Show status

Shows IP address and as well as MAC address of the TDAI-3400

Edit wired setup

Shows Status and allows for setting a static IP address instead of the default DHCP (Dynamic) (see later section as to setting up a static IP address)

Wi-Fi (wireless connection)

Edits the Wi-fi setup and allows for setting a static IP address instead of the default DHCP (Dynamic)

Wi-Fi setup guide

This guide will allow you to connect to your wireless network through scanning networks, manually entering the reference of the network or using WPS (Wireless Protection Setup – activate and the press WPS button on your wi-fi router!)

Apple Wi-Fi Accessory Configuration

With this function activated you can find the TDAI-3400 in the Wi-Fi settings of an iPhone or iPad connected to the same network. From the iPhone or iPad you can now share the Wi-Fi settings to the TDAI-3400.

Enable Wi-Fi

Enables and disables the wi-fi antenna in the amplifier.

How to pair remote control in bluetooth mode

The TDAI-3400 remote has both an Infrared (IR) and Bluetooth (BT) mode, and the TDAI-3400 will automatically connect to the remote control through Bluetooth. (the indicator on the remote lights up in green)

If Bluetooth operation is problematic for your setup, you can force the TDAI-3400 to use IR connection only by:

1. On the remote simultaneously push and hold 'Select' and '1'
2. Release the buttons when the red light starts blinking

Reactivate the Bluetooth connectivity by using 'Select' and '2'. The TDAI-3400 will now automatically connect to the remote in Bluetooth mode, and when the remote is operated the green light will appear.

Manage software

From this main menu, you can access TDAI-3400 software information, backup, restore, etc.

Backup

Make a complete system backup to the SD card or a USB pen drive connected to one of the USB A connectors. It will include all settings, the speaker setup and RoomPerfect™ calibration. When the backup is complete, the TDAI-3400 will go into standby mode.

Restore

Restore the system from a backup stored on the SD Card or on a connected USB pen drive.

Factory reset

Restore the system to the default factory settings.

Note: All user preference settings, system data, and RoomPerfect™ data are lost when the TDAI-3400 is restored to the default settings.

Download system log

To be used when reporting on bugs identified during use. A file with the system log will be stored on your device. If you identify a problem, please send this log together with a copy of the Backup file to service@lyngdorf.com for reference.

Update software

Shows reference information about the current software in the TDAI-3400 and shows eventual newer software available from the remote server.

Troubleshooting

RoomPerfect™

The calibration microphone is very sensitive and may pick up unwanted noise, including subsonic signals and background noise, which disturbs the measurements. If the signal is disturbed, it will take longer for the system to make a correct measurement.

A measurement that has been disturbed by noise but completed will always be correct; it is not necessary to redo it. If the measurement has stopped due to an error, one of the error messages below will be shown.

Error messages

No microphone connected

No microphone is connected, or the microphone cable is not working. Check that the microphone cable is connected to the microphone socket on the back panel. If the problem continues, test the microphone cable by connecting the microphone directly to the microphone socket and select Retry.

If the microphone is detected, replace the microphone cable and retry the measurement.

Fault – No signal

This error message can arise due to a signal classification of no sound. This happens if the sound volume has been muted or a cable is disconnected.

- Check the sound volume.
- Check all cable connections, including interconnects, speakers, amplifiers, etc.
- Check the measuring signal volume.

If none of these measures solve the error, request a replacement microphone from Lyngdorf Audio.

Fault – Signal clipping

Either the incoming signal has been classified as too loud, resulting in clipping or distortion, or a loud noise in the immediate environment has corrupted the measurement results. If a loud noise has in fact occurred, such as the sound of a closing door, reduce noise levels inside and in the immediate vicinity of the room and repeat the measurement. If no loud noise has occurred, reduce the volume of the signal and repeat the measurement.

Fault – Low signal

This error message is displayed when the measurement has lasted more than 5 minutes for the low-frequency signal or more than 2 minutes for the high-frequency signal. This happens most often when using a low-level measuring signal compared to the background noise in the listening environment, which results in prolonged measuring times. Raise the measuring signal volume or reduce the noise in the environment before continuing with the measurement.

Can't Turn On Via LAN or Control System

- The TDAI-3400 needs to be set to Network Standby to be able to turn on via a control system. It will not turn on when in Deep Sleep. This is controlled in the General Setup menu.

Retrieving and Sending an Error Log

To retrieve an error log, you need to access the TDAI-3400 via your browser. Here you can download a System Log and a backup file and email it to your Lyngdorf Audio representative.

3D/4K/HDR Compatibility Not Detected

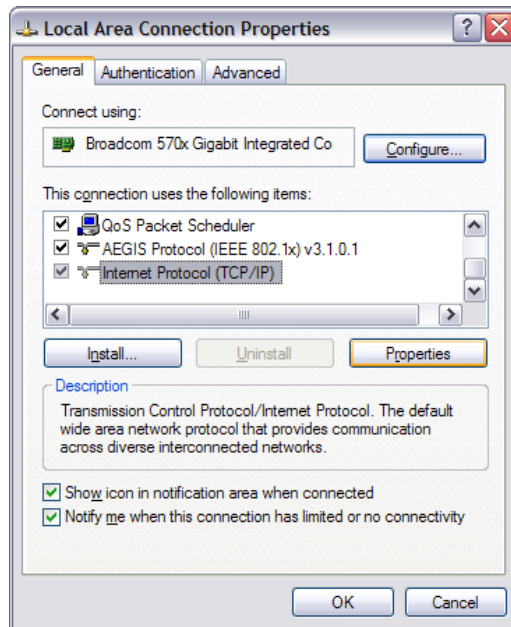
If the TDAI-3400 has not finished the start-up, a Blu-ray player will not be able to detect its compatibility. Restart the player to fix the problem.

Wired network setup

Connecting to TDAI-3400 with a network cable

It is possible to get access to the TDAI-3400's web interface via a direct cable connection between the TDAI-3400 and a computer, or a connection via a hub or switch.

If you have a direct cable connection to a laptop (with no switch or router between the two) the network cable must be a crossover type. Furthermore, the Mode option in the Network Setup menu must be set to Manual IP. Finally, you must manually set an IP address on the computer you intend to use for setting up the TDAI-3400.

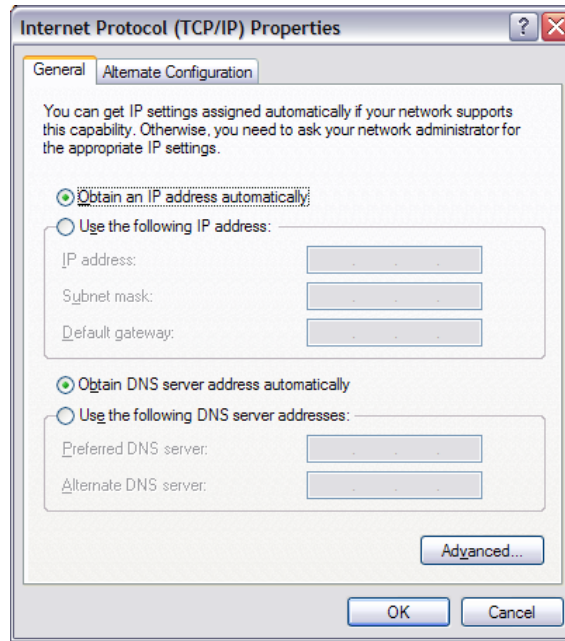


Set Up a Fixed IP Address in Windows 7

- Click Start / Control Panel / Network Connections to find the network connection that represents your connection to the Internet. Most often, this is labeled simply Local Area Connection.
- Right-click the connection and select Properties.
- Click Internet Protocol (TCP/IP) in the list (you may have to scroll down the list to find it)
- Click Properties.
- Most default configurations will have both Obtain an IP address and Obtain DNS server address automatically selected by default.
- Click Use the following IP address and enter the following:

IP address: 192.168.1.2
Subnet mask: 255.255.255.0
Default gateway: 192.168.1.1

Click OK to close the configuration windows, and you should now be able to access the TDAI-3400 via your Internet browser.



Set up a fixed IP address in Windows Vista or Windows 10

- In Windows Vista, click Start / Control Panel / Select Network and Internet / Network and Sharing Center.
- In Windows 10, right-click Start, then select Control Panel. Select Network and Internet / Network and Sharing Center.
- Click Manage Network Connections in the list of tasks.
- Right-click your local area connection and click Properties.
- Select Internet Protocol (TCP/IP) from the list
- Click the Properties button.

Click Use the Following IP address and enter the following:

IP address: 192.168.1.2
Subnet mask: 255.255.255.0
Default gateway: 192.168.1.1

Click OK to close the configuration windows, and you should now be able to access the TDAI-3400 via your Internet browser.

Cleaning and maintenance

The TDAI-3400 does not require any regular maintenance except to keep its exterior clean. Simply wipe it with a clean, soft cloth. A small amount of non-abrasive cleaner may be used on the cloth to remove any dirt or fingerprints. Do not use abrasive cleaners or cleaners containing liquid solvents.

Serial control manual

To get a copy of the Serial Control Manual, which describes how the serial control interface of the device works, download it from www.lyngdorf.com

Technical assistance

For the latest version of this manual, please check the Lyngdorf Audio website: www.lyngdorf.com.

If you have any problems with or questions regarding your Lyngdorf Audio product, please contact your nearest Lyngdorf Audio representative or:

SL Audio A/S

Ulvevej 28, 7800 Skive, Denmark

E-mail: contact@lyngdorf.com

Web: www.lyngdorf.com

Specifications

MODEL	TDAI-3400
POWER RATING	2 x 400 W RMS @ 4Ohm / 2 x 200 W RMS @ 8Ohm Max output current: 40A Max output voltage: 60V RMS (no load)
STANDARD DIGITAL INPUTS (Asynchronous)	1 x AES-EBU ($\leq 192\text{kHz}/24\text{bit}$) 2 x Coaxial ($\leq 192\text{kHz}/24\text{bit}$) 3 x Optical ($\leq 96\text{ kHz}/24\text{bit}$) 1 x USB B ($\leq 384\text{kHz}/32\text{bit}$, $\leq \text{DSD128}$, DXD)
STANDARD ANALOG INPUTS	2 x Analog Single Ended RCA (Max level: 4.0V = 0dBFS)
HDMI IN-/OUTPUTS (OPTIONAL MODULE)	1 HDMI Output / 3 HDMI Inputs (PCM $\leq 192\text{kHz}/24\text{bit}$) ARC (PCM $\leq 192\text{ kHz}/24\text{bit}$) CEC integration HDMI 2.0a support / HDCP 2.2 Resolution up to YCbCr 4:2:2, 12bit, 600MHz
HIGH-END A/D CONVERTER (OPTIONAL MODULE)	3 x Single Ended RCA 1 x Balanced XLR Based on the AKM AK5394A converter with a signal to noise ratio of 123dB with gold relays for sensitivity adjustment up to 24dB.
STANDARD OUTPUTS	1 x Stereo Analog RCA 1 x Stereo Analog XLR 1 x Stereo Digital Coax 1 x Headphone 3,5mm
AUDIO SPECIFICATIONS	Frequency Response: $\pm 0,5\text{dB}$ from 20 to 20K Hz Total Harmonic Distortion: 0.05% max from 20 to 20K Hz THD-N 1w/8ohm 0,04% / THD-N 1w/4ohm 0,04%
MEDIAPLAYER	Roon Ready Spotify Connect DLNA Support (uPnP) AirPlay

	<p>Local file playback (USB)</p> <p>Internet Radio (vTuner)</p>
WIRELESS CONNECTIONS	<p>Bluetooth (4.2 BLE)</p> <p>Wi-Fi (802.11 n/ac)</p>
TRIGGER (12V)	<p>1 x Input (can select specific input)</p> <p>1 x Output</p> <p>3,5mm jack / Thresholds approx.: On: 2.4V Off: 1.6V</p>
CONTROL INTERFACES	<p>Web-interface</p> <p>IP Control</p> <p>1 x DB9 connector for RS232 control</p> <p>1 x RJ45 Ethernet LAN connector</p> <p>2 x USB connectors (Type A)</p> <p>1 x SD card slot (Backup & Restore)</p>
ACCESSORIES INCLUDED	<p>RoomPerfect™ Microphone</p> <p>Microphone stand, cable & mini-jack connector</p> <p>Remote control (IR / BLE)</p>
PLACEMENT OPTIONS	<p>Optional Rack Mount or Freestanding</p>
DIMENSIONS (H x W x D)	<p>10,5 x 45 x 36 centimeter (including connectors)</p> <p>4.1 x 17.7 x 14.1 inches (including connectors)</p>
WEIGHT	<p>8 kg / 17.6 lb</p>
FINISH	<p>Matte Black</p>

