TAIKO AUDIO

Olympus Server & I/O
Summarized Manual

Preface

Thank you for buying our Olympus Server and/or Olympus I/O.

Taiko Audio is an innovative Dutch high-end audio laboratory. Our mission is to provide the best possible user experience for audiophile music reproduction utilizing the finest components and custom engineering to provide unmatched sound quality, customer service and support.

This Summarized Manual will help you with installing and using the server as quickly as possible. For more details, please see the Complete Manual that can be downloaded from our website.

Enjoy your new Olympus Server and/or Olympus I/O and the improvement of audio quality that it brings!

Your Taiko Audio Team.

Content

1 Available Documentation

Quick Start leaflet

The Olympus Server is supplied with a printed Quick Start leaflet, which can also be downloaded as a PDF from our website. This document contains the bare minimum information to get you started as quickly as possible.

Complete Manual

On our website, we also have a Complete Manual that covers all the operational and technical aspects, complete with additional information, hints, cautions, and legal information.

Summarized Manual

The Summarized Manual you are reading covers the essential operations and provides only a subset of the available additional information.

2 About this Document

2.1 Language

This manual is originally written in English. All other languages are translations of the original manual.

2.2 Copyright

3 About this product

3.1 Intended use

This product is intended to be used as a high-end music server. Installation of additional software is prohibited.

3.2 Product Description

Olympus can be ordered as a standalone Music Server or as a two-piece system consisting of the Olympus Server + Olympus I/O.

Olympus Server

The Olympus Server is a music storage and streaming server with a dual Battery Power Supply with custom charger Power Supplies and integrated XDMI Output. The Olympus Server is designed to deliver the most realistic sounding reproduction from stored music files and from streaming services such as Qobuz and Tidal.

XDMI

XDMI (Extreme Direct Music Interface) is a Taiko-proprietary interconnect system that eliminates a large number of intermediate processing steps and conversions, in both hardware and software, for a more direct, more streamlined, more purist "music signal path". XDMI is a modular system that can be user-fitted with a choice of dedicated Output Modules, providing a variation of analog and digital outputs. One module can be fitted at any time. XDMI Output Modules are fitted either in the Olympus Server or in the Olympus I/O. Not in both products simultaneously.

Currently available XDMI modules include an analog output DAC module, an AES/EBU + SPDIF digital module, and custom implementations for MSB or Lampizator DACs. An Aries Cerat interface is being worked on.

In addition to XDMI, the Olympus Server also offers two fixed USB ports that can be used to connect a DAC. Only one DAC can be connected to either of the USB ports at any time. We recommend using XDMI for the best Sound Quality.

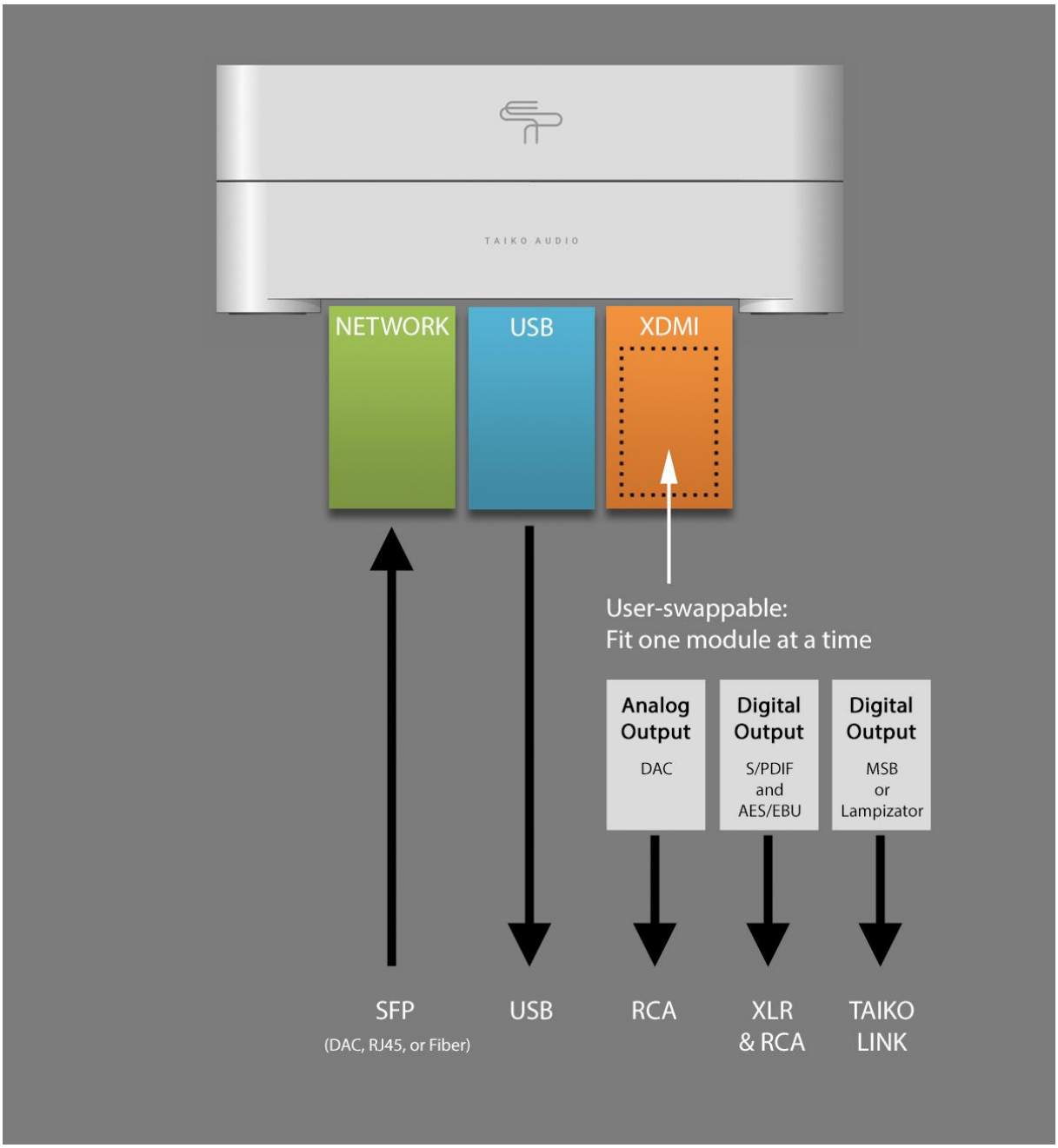
With the Olympus Server, XDMI is integrated into a single chassis. When adding the Olympus I/O, the XDMI and the network card are moved from the server to a second chassis with its own dual Battery Power Supply. The two chassis are then fitted with two 400Gbps QSFP interconnect systems and interconnected using two 800Gbps QSFP-DD Passive DAC (Direct Attach Copper) Cables.

Please refer to the Complete Manual for more detailed information about Olympus and XDMI technologies.

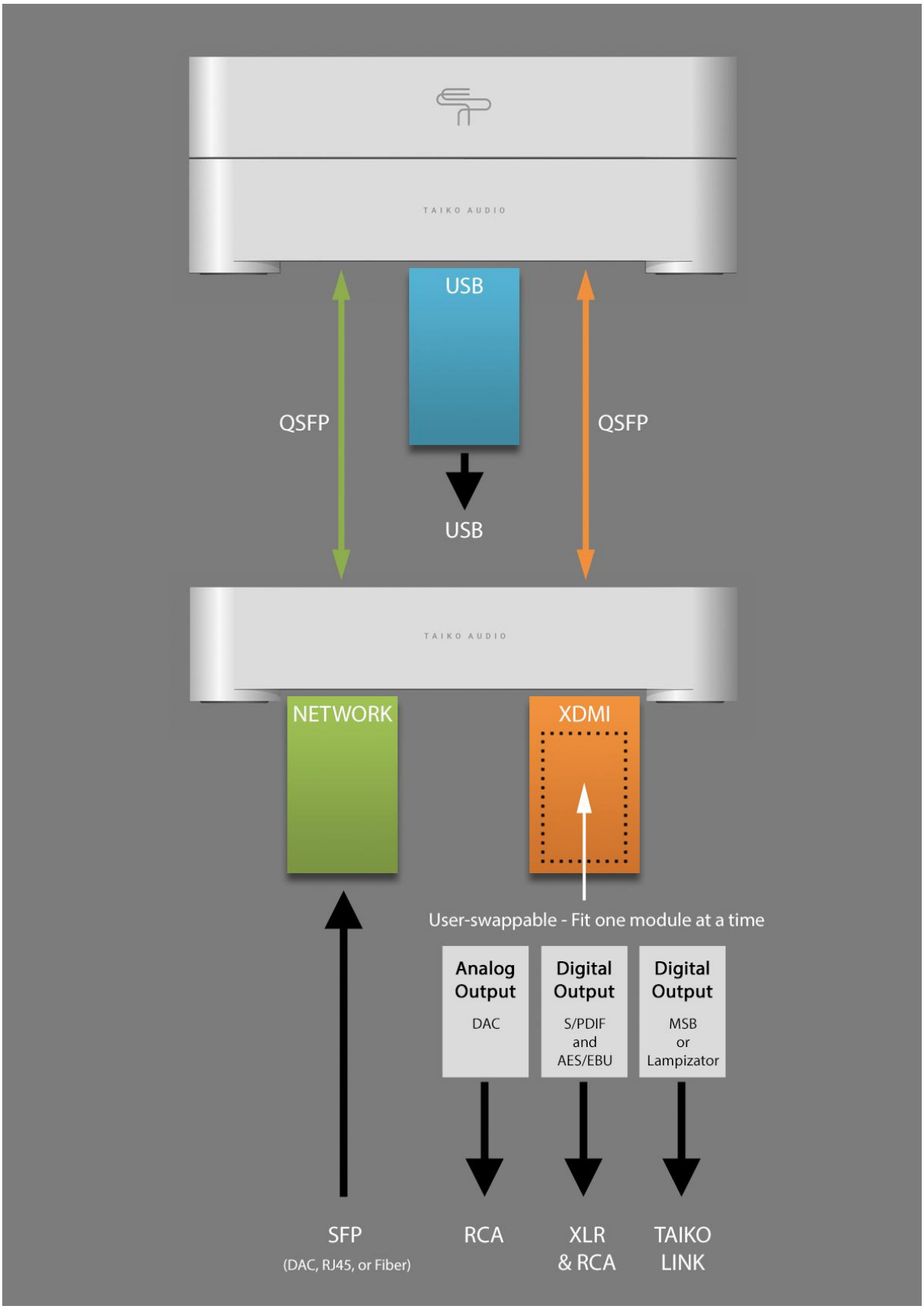
Olympus I/O

For the summum in performance, the Olympus I/O can be added to the Olympus Server. The I/O is an external interface unit that contains its own dual Battery Power Supply and charger. When using the I/O, the Network- and the XDMI Output cards are relocated from the Olympus Server to the dedicated I/O chassis, powered from its own internal BPS. The Olympus I/O can be ordered together with the Olympus Server, or added at a later time.

3.3 XDMI Connectivity Diagram – Olympus Server



3.4 XDMI Connectivity Diagram – Olympus Server + I/O



3.5 Battery Power Supply (BPS)

The Olympus Server and I/O each contain two independent battery power supplies powered by internal custom charger Power Supplies. The batteries adhere to the strictest safety levels, do not suffer from memory effects, and last for decades.

The Olympus Server and Olympus I/O are intended to always be connected to the mains power. When disconnected from the mains, the batteries will discharge.

The System and XDMI battery supplies are always operational but configured differently.

The status of the batteries can be checked using the BMS App, which also allows making certain settings. See the Battery Management System (BMS) App section further below for more information.

3.5.1 Olympus Server BPS

The Server contains two independent BPS sections. The first battery section powers the core system. It is configured such that the battery is constantly charged. The Server's second battery section powers the XDMI Output cards, and is configured to charge in cycles, like a traditional battery.

The XDMI battery holds a charge for up to 36 hours, to provide more than enough pure battery power to cover the longest listening sessions.

To maintain an optimal battery charge, always switch the server to standby before disconnecting it from the mains power and make sure to always reconnect the server to the mains power as soon as possible after relocating it. Please refer to the Complete Manual for more information.

3.5.2 Olympus I/O BPS

When the Olympus I/O is added, the Server's second battery section is reconfigured to power the two QSFP Interface cards that connect the Olympus Server to the I/O.

The Olympus I/O contains two battery power supplies and a custom power supply for charging the battery cells. The first battery section powers the Network Card, and the second section powers the XDMI Output. The batteries are configured to charge in cycles, like a traditional battery. They hold a charge for up to 36 hours, to provide more than enough pure battery power to cover the longest listening sessions.

3.5.3 Charge Cycle

To maintain ideal battery circumstances, there is a pre-programmed charging cycle between 00:00 and 07:00 for the Olympus Server's second battery section and both the Olympus I/O's sections. For these battery sections, the charging period may also be freely adjusted using the BMS App to precisely fit in with your personal schedule. Please note that charging only occurs when the battery charge is below a certain value.

Please refer to the 'Battery Management System (BMS) App Manual' for more info.

3.6 Battery Management System (BMS) App

The Battery Management System (BMS) App is available in the App Store for iPhone and Play Store for Android. It provides easy access to the Olympus Server and I/O charging circuits. The Bluetooth connection is always available, even when the server's Operating System is not running, i.e. when the server is set to standby.

The app offers a dashboard showing the essential parameters, such as battery status, at a glance. Additionally, the app allows the user to make changes, such as customizing the charging cycle.

To establish the initial Bluetooth connection, please use PIN code 000000 (6x 0) as the pairing code.

The BMS app is not required in day-to-day use, but it is needed at least once: after initially connecting the Olympus products or when the user has set the products to Shipping Mode. Once connected, the Olympus products require a few seconds with a connected BMS app for the battery logic information to sync to the app.

For more detailed instructions on using the BMS App, please refer to the separate "Taiko Audio Battery Management System (BMS) App Manual", available from the downloads page on the Taiko Audio website.

3.6.1 Battery Charge

The Lithium Titanate Oxide batteries that we use adhere to the strictest safety levels, do not suffer from memory effects, and last for decades. Nevertheless, the batteries will discharge when the server is disconnected from the AC power.

In standby mode with fully charged batteries but no AC power connection, the batteries can hold a charge for up to 6 hours. But when the server is switched on and playing music, fully charged batteries will only provide up to 30 minutes of charge.

For this reason, it is recommended to always switch the server to standby before disconnecting it from the mains power and to make sure to always reconnect it to the mains power as soon as possible after relocating it.

When the voltage is below 13.6V for the System Battery or below 12V for the XDMI battery, the batteries should be allowed to recharge more fully before using the unit.

Low voltages should only occur when the main power is disconnected for a longer period. If the units remain connected to the main power, they should always be ready for use.

Please note that external USB drives may draw more current than the charging circuit can provide, so do not connect them unless the batteries are sufficiently charged.

For the best sound quality, when using the XDMI output, do not connect any USB devices such as DACs or USB thumb drives, or USB hard drives, even when the batteries are properly charged.

Please refer to the Complete Manual for more detailed information about the Battery Charge.

3.7 Gigabit Network Only

Please note that the Olympus Server is only compatible with a 1Gb (or faster) Ethernet connection. The server's SFP port does not work with 100Mb/s networks. Some audiophile switches and accessories are known to throttle the speed, these should be avoided. Taiko Audio Switches and Routers are 1-Gigabit-compatible.

3.8 Packaging Contents

Check if all contents in the packaging are present and undamaged. The packaging should contain the following parts:

	Olympus Server
1x	Taiko Audio Olympus Server
1x	Selected XDMI Output Card pre-installed in the server
1x	RJ45 to SFP adapter
1x	One or more optional extra XDMI Output Cards that can alternately be installed in the server by the user

	Olympus I/O
1x	Taiko Audio Olympus I/O
1x	Selected XDMI Output Card pre-installed in the I/O
2x	XDMI QSFP Interface Cards pre-installed in the I/O
2x	XDMI QSFP Interface Cards to be mounted (by the user or dealer) in the Extreme or Olympus Server
2x	QSFP-DD Interface Interconnect cables

If parts are missing or damaged, contact your supplier.

3.9 Safety instructions

Warning!

Be careful with aftermarket footers!
Use aftermarket footers only in the intended recesses in the four corners. These have been machined such that they can safely support the weight. Placing footers directly under the bottom panel may cause internal structural damage, especially when used under the I/O with the server stacked on top. Aftermarket Footers can be used directly underneath the mounted acrylic footers, or the acrylic footers may be removed. The recesses are fitted with an M6 (6mm) thread which provides compatibility with M6-equipped aftermarket footers.

3.10 Important hints

Caution!

3.10.1 Retain the original Packaging

Always transport and store the server in the original packaging. Transporting the server in any other packaging may cause damage to the server and void the warranty. Please see the separate section in this manual for how to set the server in Shipping Mode.

3.10.2 Lift with two people

The server is very heavy (60 kg). Always lift with two people.

3.10.3 Power Off Procedure

Only use the main power switch at the back of the Server after you have switched the unit off using the front panel button.

3.10.4 Do not use USB sticks/Thumb drives/USB drives

The USB port is not intended for external thumb drives/USB sticks or USB drives. If you want to transfer music, please use samba network transfer via a computer on the same network. For detailed instructions, please refer to our separate “Migrate Storage Guide” that can be found in the Downloads section on the Taiko Audio website.

3.10.5 Software installation prohibited

We have prohibited the installation of other software on the server as that will degrade the audio quality and can increase the support load.

Please refer to the Complete Manual for additional important hints.

4 Installation

The following paragraphs will provide all information needed to install the server and/or I/O in a safe way.

4.1 Installation location

The installation location should comply with the following conditions:

- Flat and stable surface
- Dry environment
- At least 7,5 cm (about 2.95 inch) free and ventilated space at the top; at least 5 cm (about 1.97 inch) on the sides

4.2 Tips for optimum audio quality

To achieve the best audio quality possible with this server, we recommend following these tips:

- Analog and digital interconnect cables inherently have varying characteristics. We recommend experimenting with different digital or analog interconnect cables.
- The Olympus server and I/O are not very sensitive to the quality of the AC power, However, power cables still have an audible impact, due to a modulating of the current draw on a power distributor, through the common ground connection, and by affecting other components in the chain. We recommend using good quality power cables.
- Use a power outlet capable of delivering 2 kW of continuous power without parts of the connection getting warm.
- In countries with Schuko plugs, make sure the connector is in the orientation that sounds best.
- We do not recommend replacing fuses for experimental purposes.
- If a fuse needs to be replaced, the new fuse must be of the same rating.
- Avoid any devices that provide local area network connectivity over the mains wiring.
- Please see also the ‘Recommended Roon Settings’ document on the Taiko Audio website for detailed Roon configurarion recommendations.

4.3 Connecting the Olympus Server

To connect the server, do the following:

1. Connect the power cable to the **power port**.
2. Connect the other end of the power cable to a suitable power source (100 – 250 VAC depending on the country).
3. Connect one end of your network cable to your home network.
4. Connect the other end of the network cable to the **SFP LAN Port**. You can use the supplied RJ45 to SFP adapter to connect a regular LAN cable with RJ45 connector.
5. When the XDMI Analog Board is installed, connect analog interlinks to your preamplifier or integrated amplifier. When the XDMI Digital Board is installed, connect digital interlinks to your D-A Converter.
6. The server also contains a USB port to connect an external D-A Converter. Only one USB DAC can be connected at any time. Please note that we recommend using the server with XDMI for the best sound quality.

The server is now connected to all necessary equipment.

4.3.1 Optional: Grounding Posts

Grounding is not required or recommended but to facilitate certain use cases, the Olympus Server and I/O are fitted with binding posts for grounding purposes.

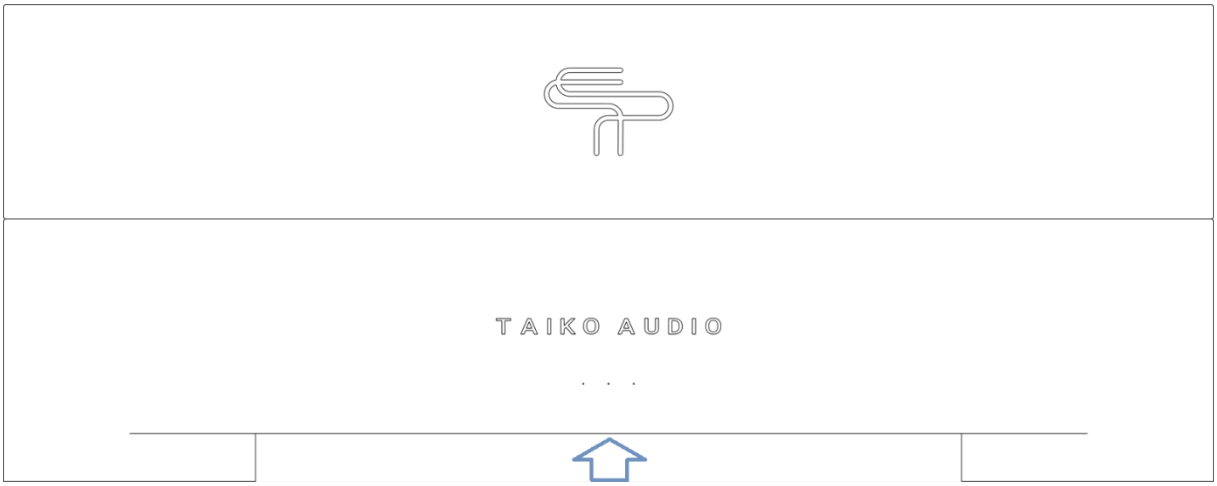
Please refer to the Complete Manual for more information about the Grounding Posts.

4.4 Power Switch and Standby Button Location

Both the Olympus server and I/O are equipped with a main power switch at the rear.

The Olympus server additionally has an On/Standby button on the underside of the front panel.

The location of the On/Standby button is indicated below by the blue arrow.

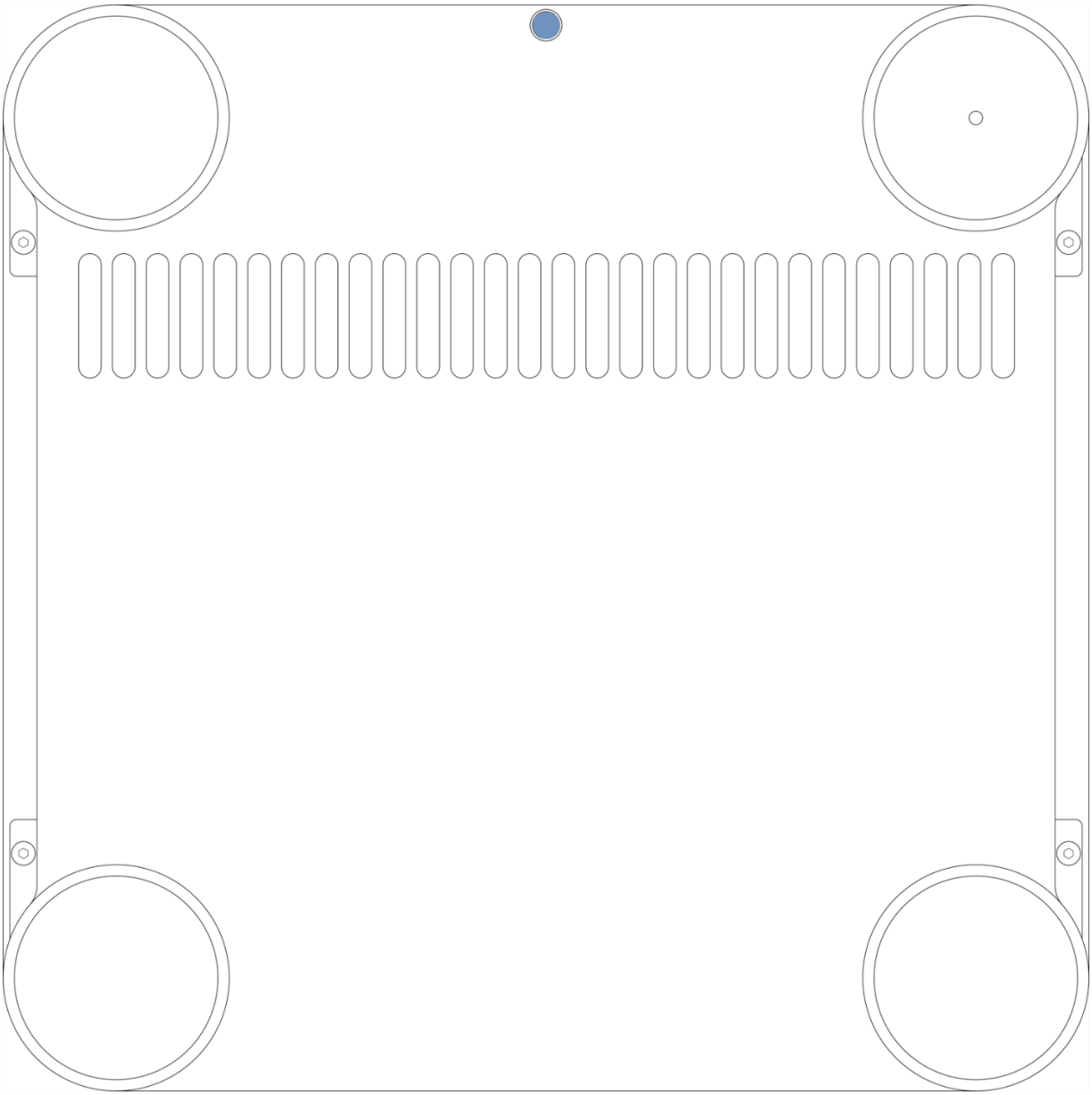


The On/Standby button alternately starts the Operating System or shuts it down and puts the server in a standby state.

In standby, the batteries are still charged. A short momentary push of the button alternately starts the Operating System or shuts it down and puts the server in a standby state. In standby, the batteries are still charged. A long-press of the button leads to a hard OS shut down, which should normally be avoided.

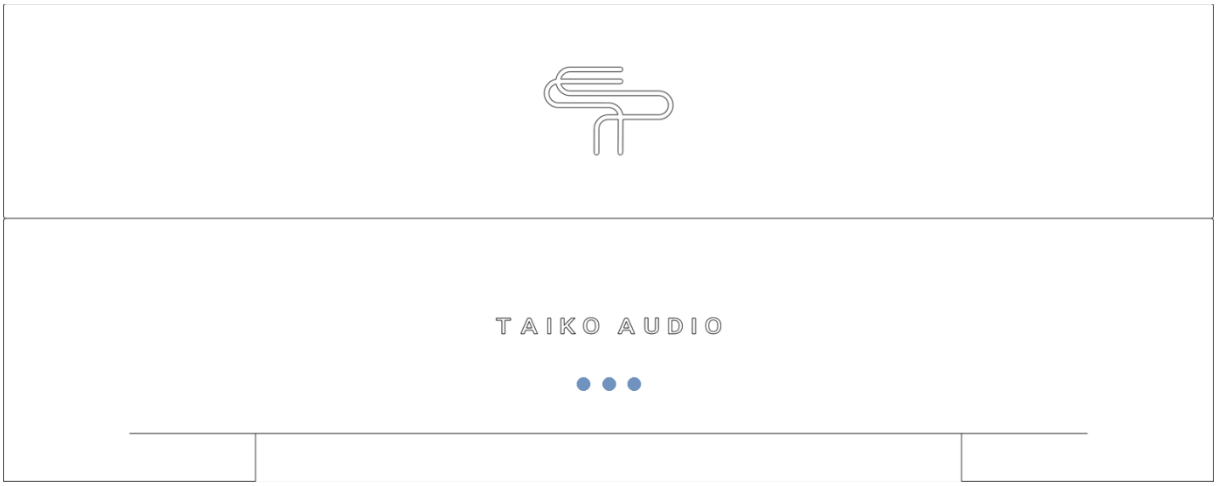
The Server and I/O are both intended to always be connected to the mains power. For normal day-to-day use, only the server's front panel standby button should be used.

The location of the On/Standby button, as seen from the Olympus Server's bottom side, indicated by the blue circle.



Olympus Server front panel - Location of the three Status LEDs

The server has 3 LEDs on the front panel, each indicating the status of a particular section.



LED1 (left) = XDMI Battery
LED2 (middle) = OS State
LED3 (right) = System Battery

In general, a solid-on LED indicates status OK, whereas a blinking LED indicates an attention state, usually booting or charging. By their blinking behavior, the LEDs can indicate more than the above, to help pinpoint the device's state or indicate potential issues. See the Complete Manual for the full LED Status list.

4.5 Switching Olympus Server On and Off

4.5.1 Switching On the Olympus Server

To switch on the server for the first time, do the following:

1. Switch the **main power switch** on the rear to the *ON* position.
2. Press the **front panel button**. The Operating System will start up. After approximately 20 seconds, the middle LED comes on, indicating that the Operating System is booted. The server will need approximately 10 more seconds to become fully operational. Once the server has completed its routine, a relay click can be heard if you have the Analog XDMI board installed. There will be no click when using the Digital, Lampizator, or MSB XDMI boards. Shortly after finishing the startup routine, your Roon Control Point app will automatically connect. Now, your server is ready for use.

Caution!

The unit should be completely silent during operation. If there is any audible noise, switch off the unit, and try to find the cause.

4.5.2 Switching Off the Olympus Server

To switch off the server, do the following:

1. Momentarily press the **front panel button**. Within a few seconds, the middle LED will extinguish, indicating that the OS is shut down, and the server has correctly entered standby mode. The batteries will still be charged.
    a. The exact amount of time varies a bit with the Roon database size and the time it takes for the system to close the various Roon elements and any running tasks. With a small Roon database and no ongoing system tasks, shutdown will take less than 5 seconds.
    b. Once the power button has been pressed, the Roon remote should lose connection pretty quickly, indicating the system is shutting down.
    c. Note that a long-press of the button (more than 5 seconds) leads to a hard OS shut down, which should normally be avoided. This should only be used if the OS has crashed and is unresponsive—a rare situation most users will never encounter.

4.6 Switching Olympus I/O On and Off

4.6.1 Switching On the Olympus I/O

To switch on the I/O, do the following:

1. Switch the **main power switch** on the rear to the *ON* position. There is no booting time; the unit powers on immediately. The front panel LEDs will turn on and indicate the status of each of the two battery sections.

Caution!

The unit should be completely silent during operation. If there is any audible noise, switch off the unit, and try to find the cause.

Olympus I/O front panel - Location of the two Status LEDs

The I/O has 2 LEDs on the front panel, each indicating the status of a particular section of the unit.

LED1 (left) = XDMI Battery
LED3 (right) = Network Card Battery

In general, a solid-on LED indicates status OK, whereas a blinking LED indicates an attention state, usually booting or charging. The front panel LEDS can indicate various other system states by their blinking behavior. Please refer to the LED Status chapter further below or in the BMS App Manual for the full list.

4.6.2 Switching off the Olympus I/O

The I/O should normally be left powered on so that the BPS system can maintain the charging cycle.

1. To temporarily power off the I/O, switch the **main power switch** to the *OFF* position. Please note that the batteries will still deplete when the unit is left without mains power for more than a few hours.

4.7 Shipping Mode

If the server or I/O is expected to be disconnected from the main power for over 2 hours, they can be set to Shipping Mode. This is how we ship them. Selecting Shipping Mode will discharge the capacitors and then shut down the motherboard and XDMI cards. After this, the unit(s) can safely be left disconnected indefinitely.

1. Shut down the server's Operating System by pressing the button underneath the front panel. Confirm the middle LED has gone off. This does not apply to the I/O.
2. Power off the unit(s) with the rear switch.
3. Remove the AC Power Cable.
4. Wait for approximately 2 minutes for the Battery sections to shut down. You can check this by looking through the Server's perforated top, into the front right section, where the green light will go off.
5. Use the BMS app and select shipping mode for each of the respective unit's independent Battery Sections.

Upon reconnection of mains power, the server will automatically switch out of shipping mode and prepare itself for normal use.

4.8 Connecting Olympus I/O to Olympus Server

When purchased as a bundle, the Server and I/O will be supplied with the QSFP Interface Expander cards and XDMI Output Card of your choice pre-mounted. All that needs doing is to connect the cables.

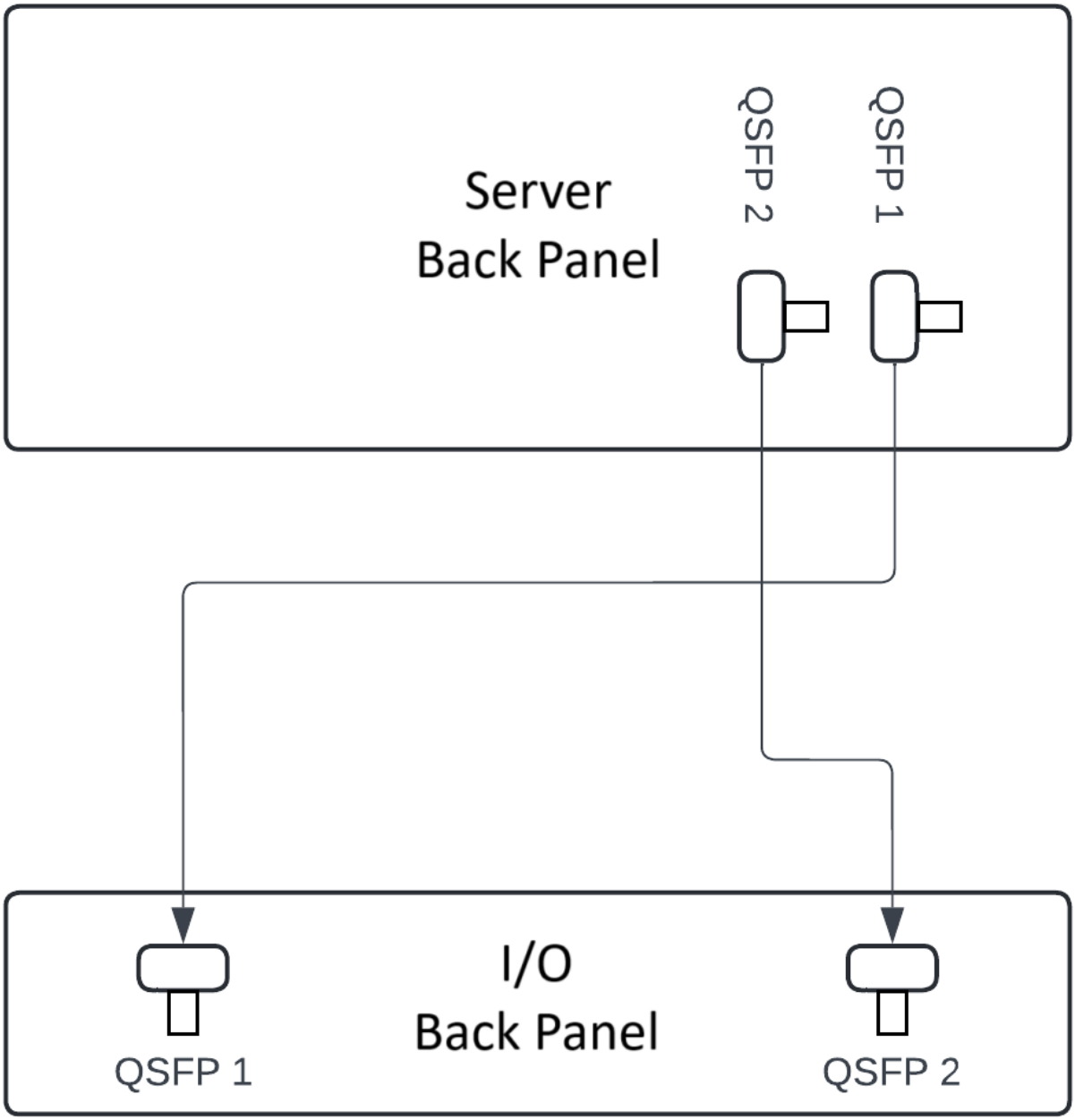
Additional steps are required when the I/O has been added later. Please refer to the Complete Manual for instructions on adding the I/O at a later time.

4.8.1 Connect the QSFP Cards

After installation, connect the two QSFP Interface cards in the Olympus Server with those in the Olympus I/O using the supplied 2 QSFP DD cables.

Observe the QSFP Connector Orientation!

The QSFP connectors must be inserted in the correct orientation to work. Note the orientatien of the Release Tabs in the diagram below. When inserted correctly, they snap in place. When inserted incorrectly, they do not go in all the way, and they do not lock. In that case, they need to be rotated 180 degrees.



Connect QSFP1 (XDMI audio signal) on the Olympus Server to QSFP1 on the I/O, and connect QSFP2 (network signal) on the server to QSFP2 on the Olympus I/O.

4.8.2 Connect your Preamp, Integrated Amplifier, or DAC

- If the XDMS Analog Output Card is mounted, connect its analog outputs to your preamplifier or integrated amplifier. If your preamplifier only has Balanced XLR inputs, an RCA to XLR Adapter Plug can be used.
- If the XDMS Digital Output Card is mounted, connect the digital connection of your choice to your D-A Converter.

5 Roon setup

5.1 Connecting with the app

To use the server, you need the Roon app:

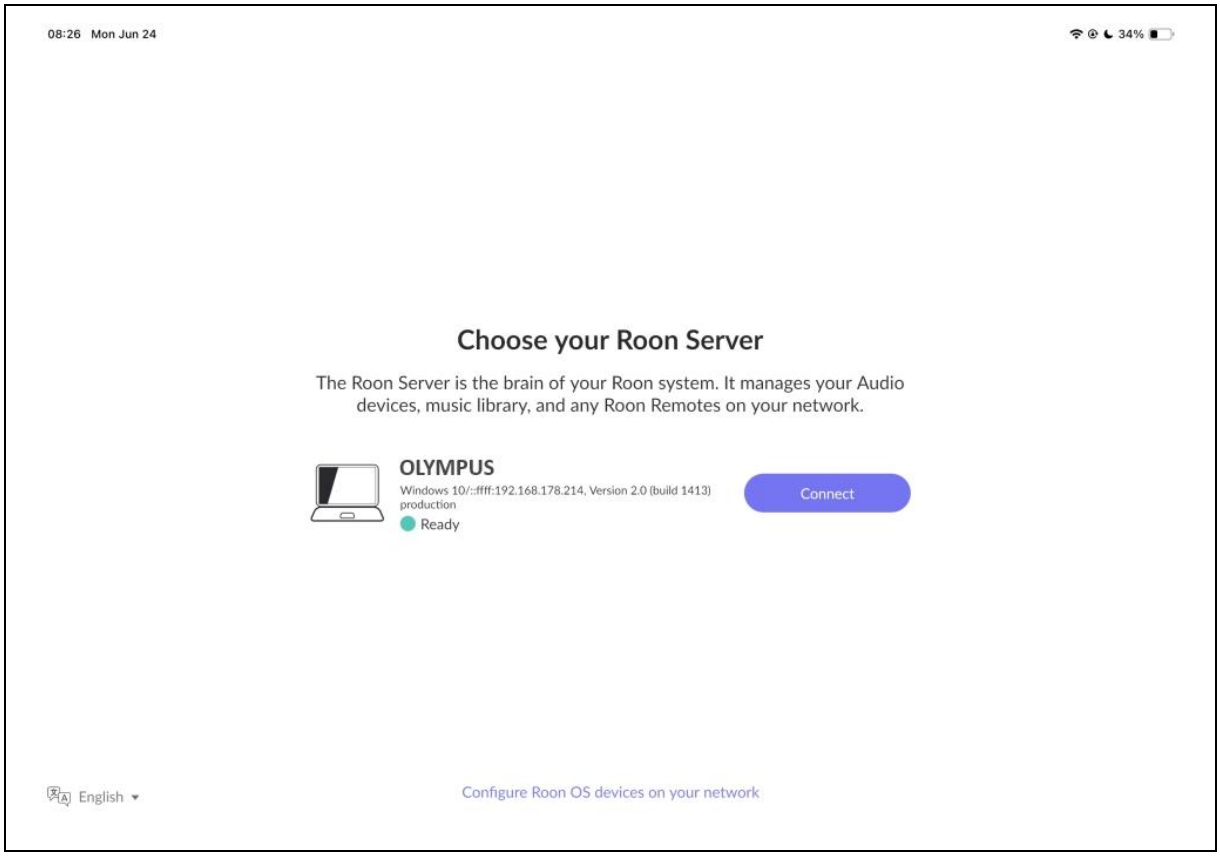
Roon Remote
Roon Labs

Download Roon in the App Store, Play Store, or from www.roonlabs.com. We recommend using an iPad or iPhone. Android mobile devices or MAC and Windows desktops and laptops are also compatible.

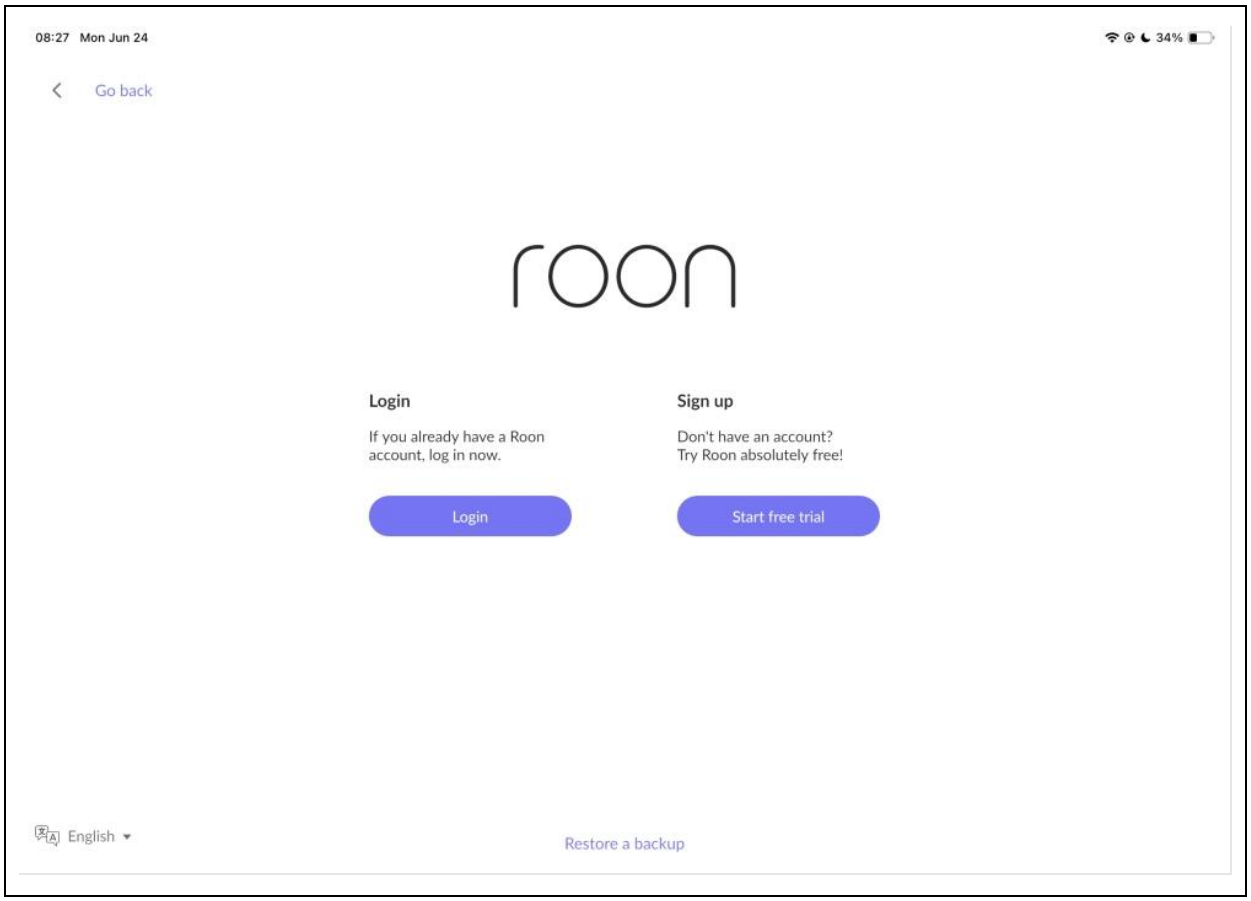
To connect the server with the app, do the following:

1. Switch on the server.
2. Open the Roon app on your control device (usually an iPad). Make sure the device that runs the app is connected to the same network as the server.

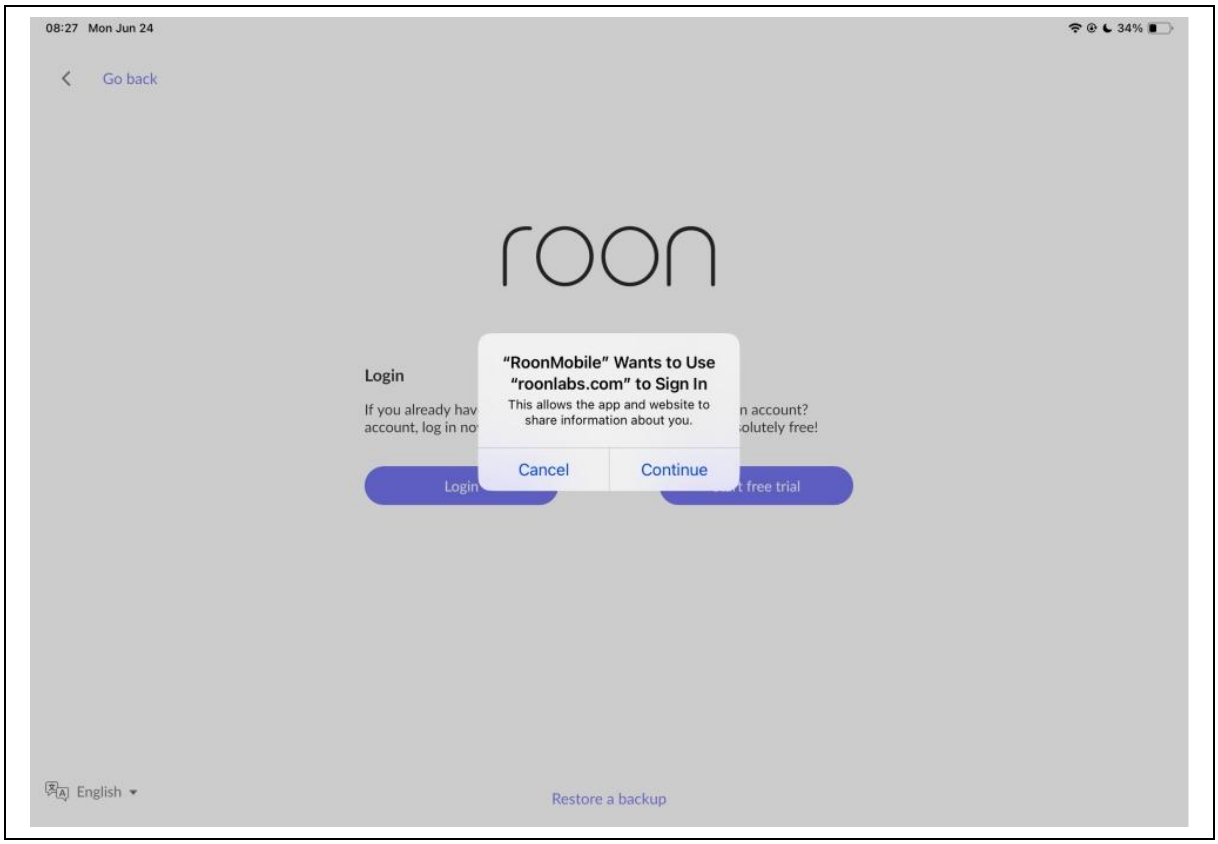
The app starts looking for devices. OLYMPUS••••• appears in the app (for example: OLYMPUS21100).



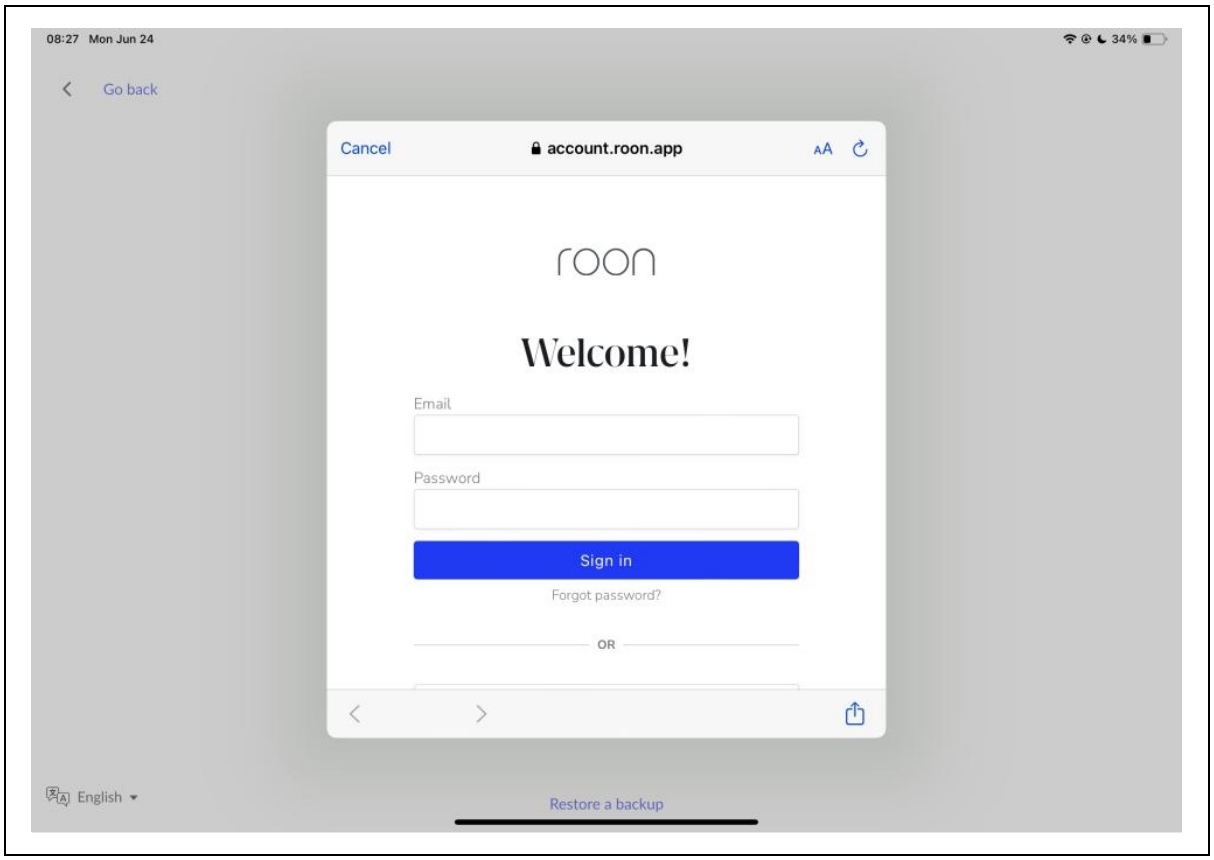
3. Click on *Connect* next to *Olympus*



4. Click on *Login*



5. Click Continue



6. Sign into the Roon app with your e-mail address and password. If you don't have a Roon account, click on *Start Free Trial* in the previous screen and make an account.

The app logs in and shows a setup screen.

Next, the app asks for music file locations. See the next chapter for instructions.

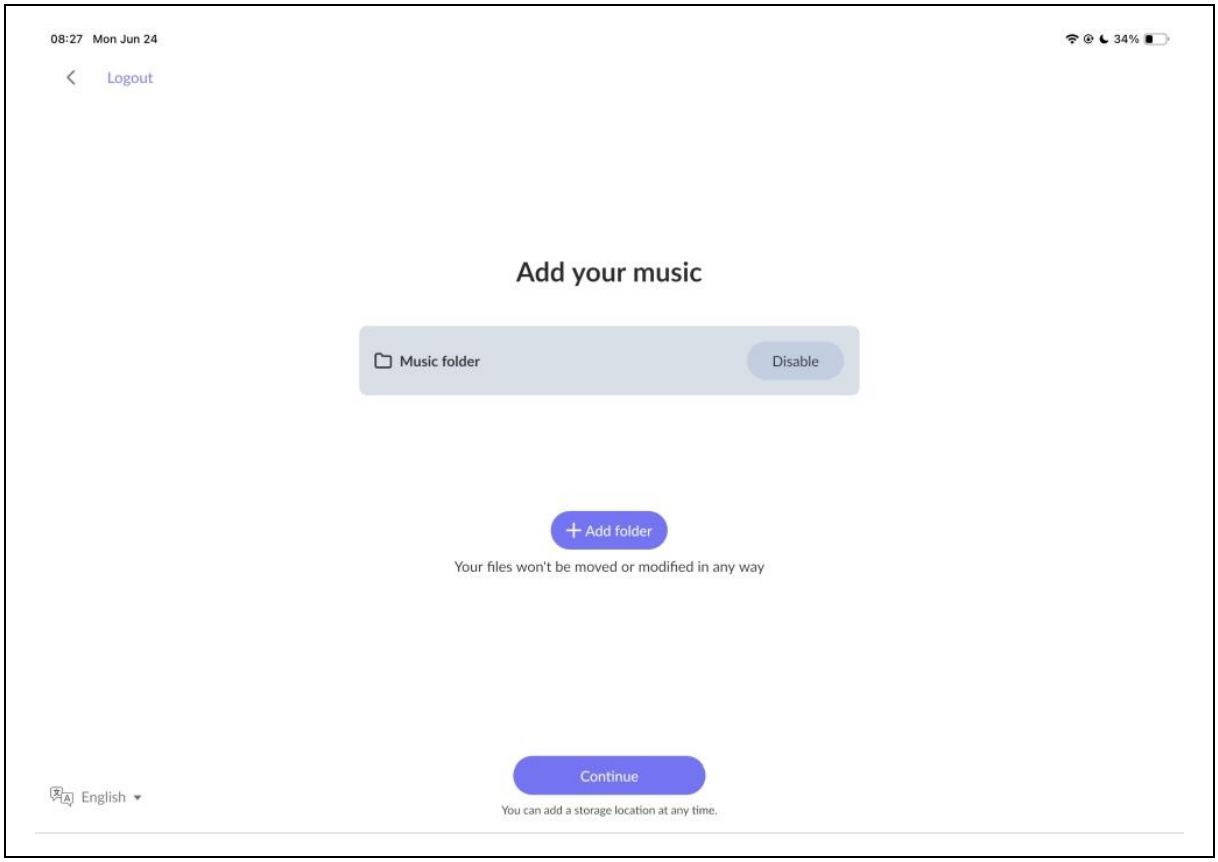
5.2 Music Source and Output Setting

Tip All settings can also be added or edited later.

You may store your music locally on the server's internal drive, or you may play music directly from a NAS. The Olympus sounds just as good playing music either way.

When you want to use the server's internal storage drive, your music will need to be transferred. When you upgraded from Extreme to Olympus, your data will need to be migrated because the drives are not compatible. For detailed instructions, please see our separate "Migrate Storage Guide" that can be found in the Downloads section on the Taiko Audio website.

Now, point Roon to your music storage location(s).



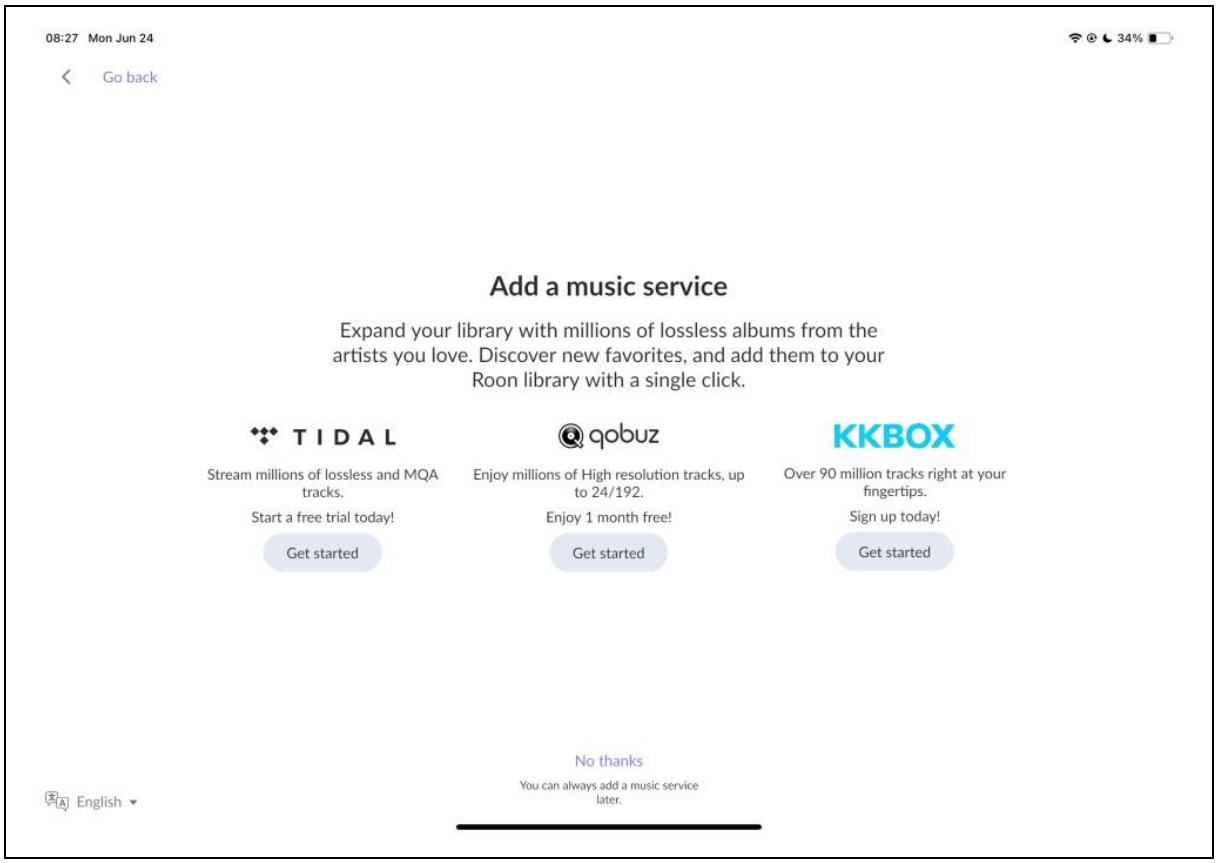
1. Add applicable music file locations:
    a. Disable the Music Folder by clicking on *Disable*.
    b. Click on *Add Folder* to select music stored on the server.
    c. Enter the internal Olympus Music Drive D:
    d. Optionally, click on *Add Network Folder* to add a NAS.
    e. Specify your network path.

2. Click *Next*.

If you have accounts at supported streaming services (like TIDAL or Qobuz), you can now connect the server to those services.

Tip Keep in mind that importing big music libraries can take a lot of time.

The app shows a music streaming service.



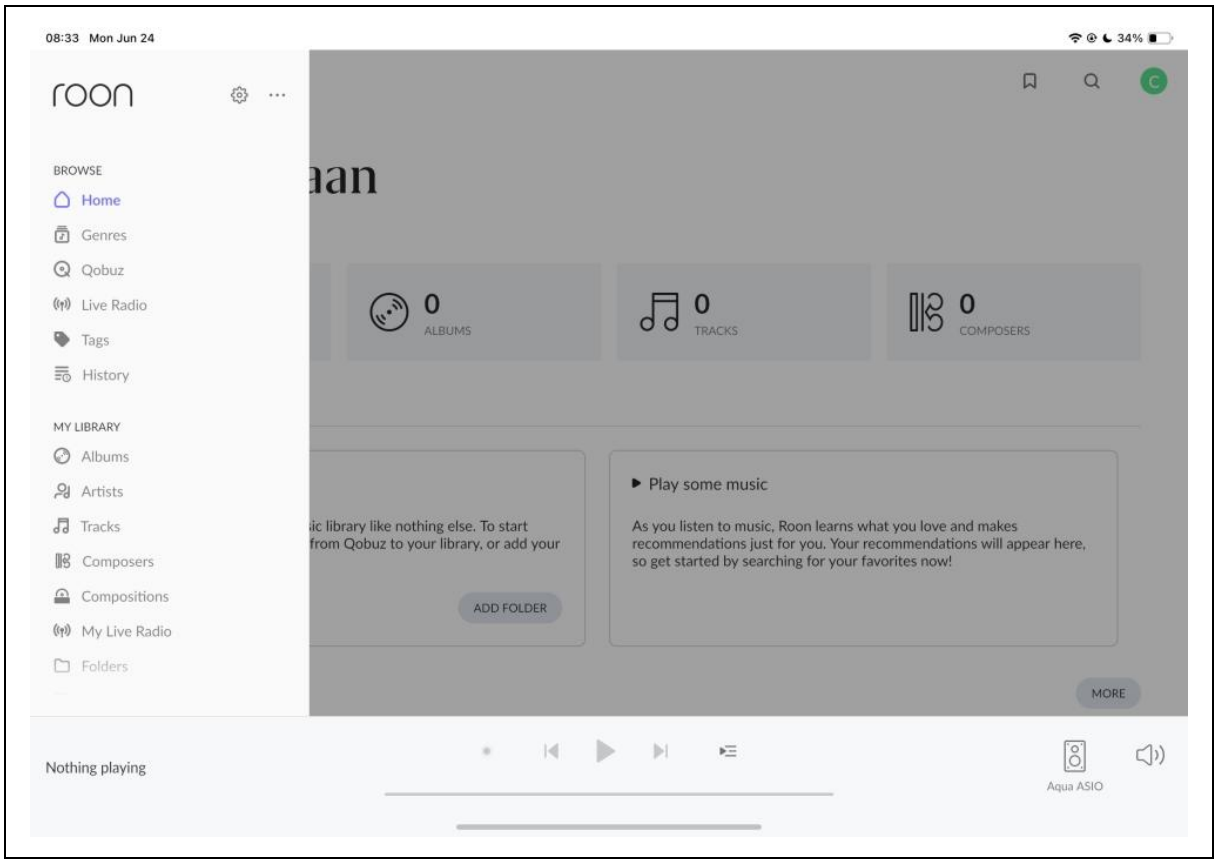
- If you have an account for the streaming service, or want to try it out, click the *get started* button for the selected service.

The initial setup is now complete.

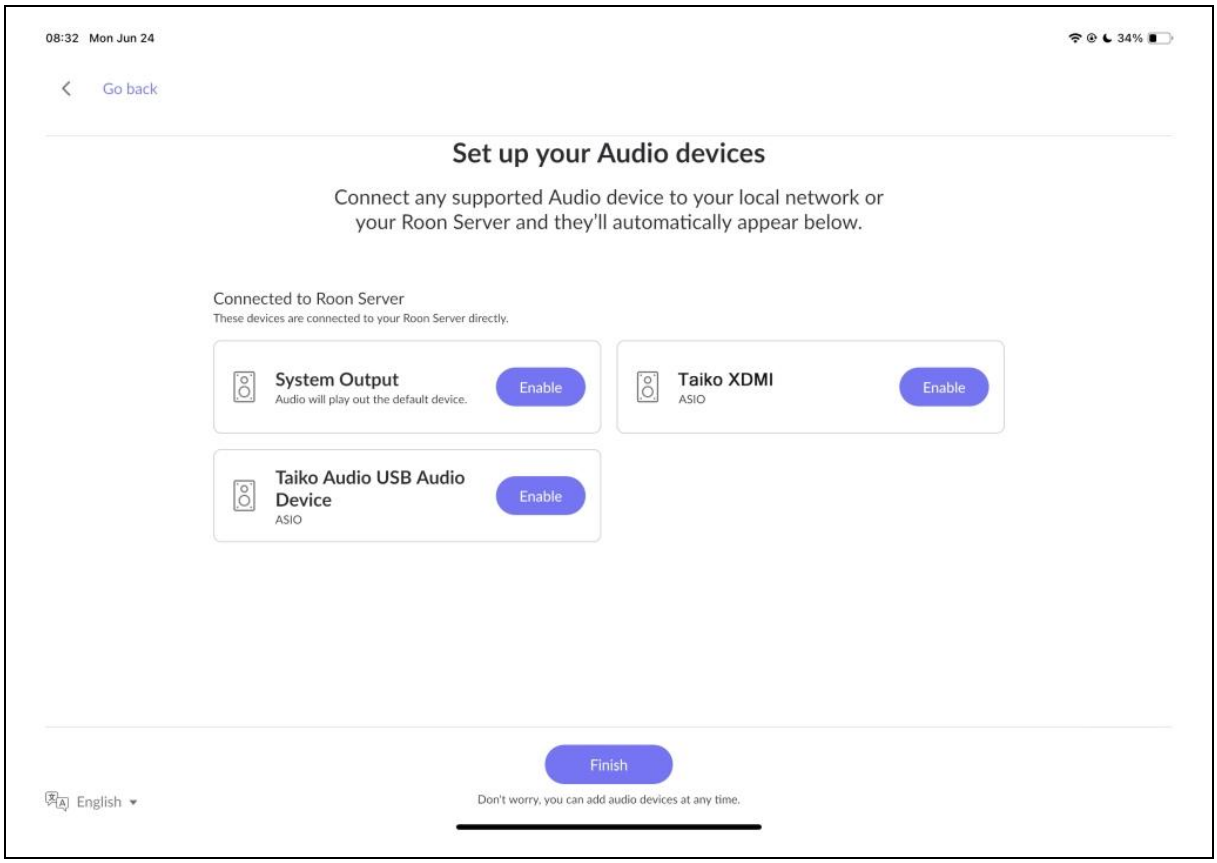
Next, the app starts setting up your music library.

Tip You can already listen to music when the app is still setting up your music library. However, we do not recommend to make a sound evaluation during the setup. The sound quality will not be optimal because the system is busy setting up the library.

When the app has finished setting up your music library, you can connect your DAC to the app. To connect your DAC, do the following:



1. Click the *settings* “Gear Wheel” button at the top.
2. Click *Audio*. The audio settings screen opens and shows all available output zones. You will find the Taiko XDMI output under *Connected to Roon Server*.



1. Locate your desired output and click *enable*.
2. Click *Enable* next to the Taiko XDMI output.
3. Click on *Select an Audio Zone* at the bottom of the screen. The zones screen pops up.
4. Select the preferred zone.

Your XDMI output is now connected to the app and you can start playing music.

Alternatively, you may select the USB output instead of XDMI, but we recommend using XDMI for its superior sound quality.

Caution!

For the best sound quality, we recommend you enable only one output at a time. Do not link multiple outputs to play at once. This will drastically reduce the sound quality.

Notice Real-time DSD Upsampling in Roon is not supported.

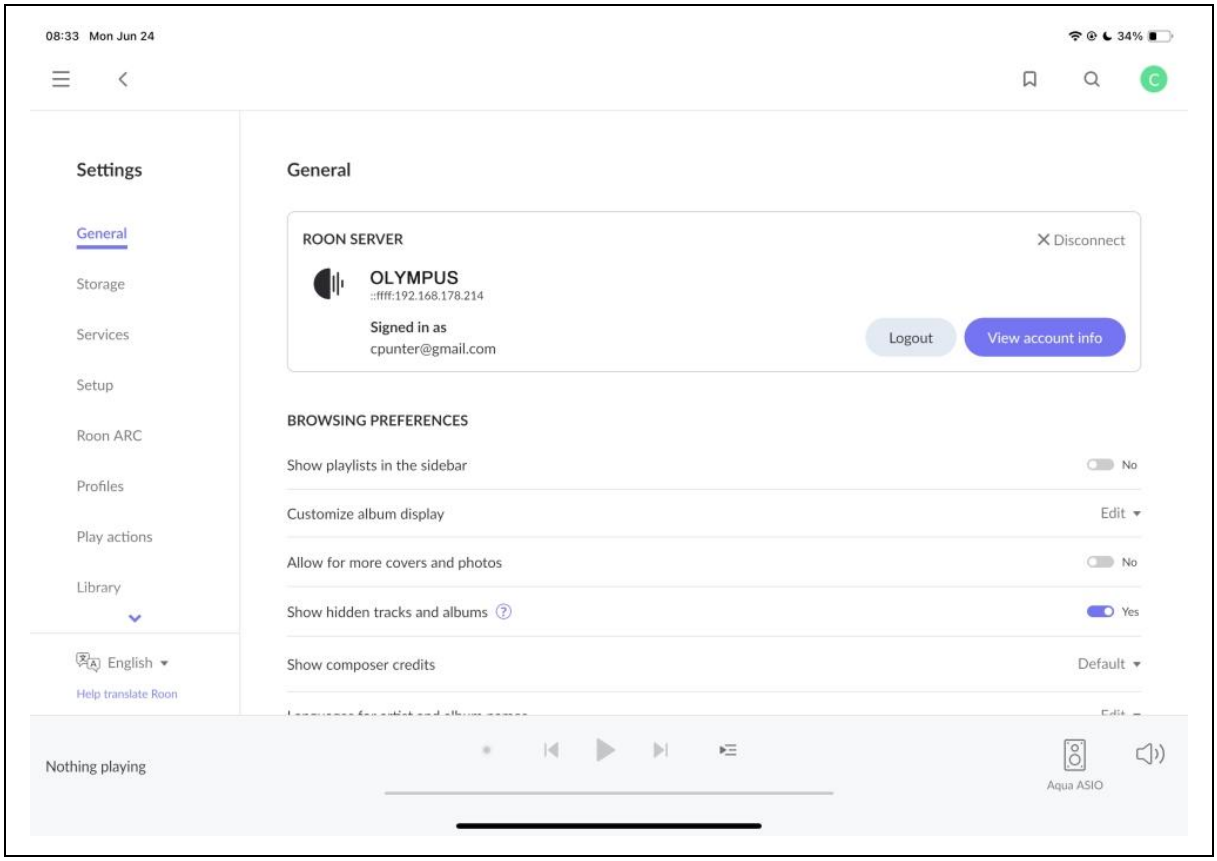
The Olympus and its XDMI interface are bit-perfect designs. While upsampling can be enabled, it will negate most, if not all, of the benefits XDMI has to offer.

Tip Recommended Roon Settings

Additional steps can be taken to maximize Roon Sound Quality. For this, please refer to our separate "Recommended Roon Settings" document which can be found in the Downloads section of the Taiko Audio website.

5.3 Accessing the file structure of the server

By accessing the file structure, you can directly add music to your server's internal drive.



Tip You need the name and IP address of the server. You can find this information in the General section of the Roon app's settings menu, under the Olympus name. You can also find the IP address using an App like Fing.

5.3.1 MacOS

To access the file structure of the server via a MacOS computer, do the following:

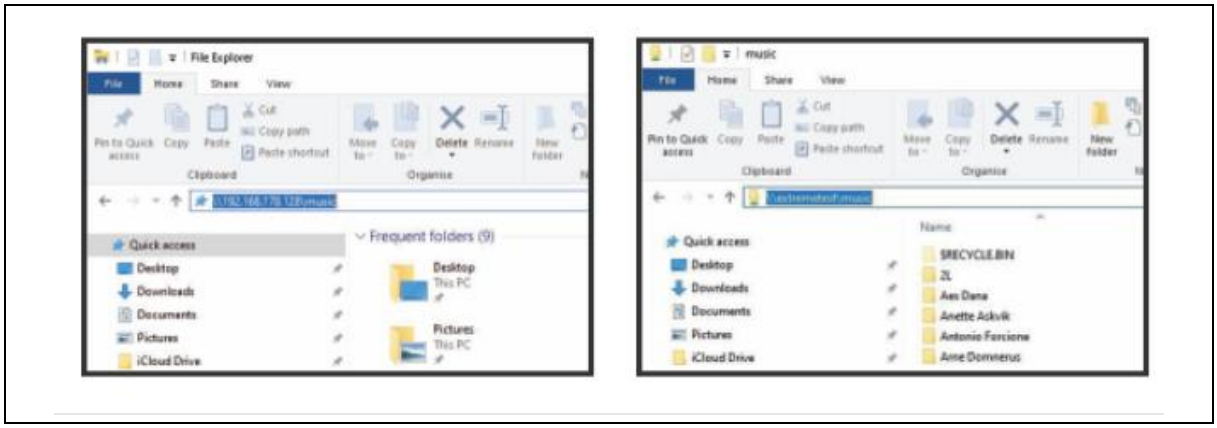
1. Open the Finder.
2. Press *Command* + *K*. A new window pops up.
3. Enter the IP address of the Olympus server as follows: "smb://[IPADDRESS]", for instance: "smb://192.168.1.120"
4. Click *Connect*.
5. Enter the name and password of the server, as follows:
   - Login: Olympus (Note that this is different from the Extreme Login)
   - Password: SoundTest
6. Click *Registered user*.
7. Click *Connect*. The computer makes a connection with the desktop of the server.
8. Select the drive of the server in the Finder.
9. Click on *OK*.

You can now view the folder structure of the server on your computer.

5.3.2 Windows

To access the file structure of the server via a Windows computer, do the following:

1. Open the Explorer.



2. Enter \\ followed by the IP address or name of the server and press the *Enter* key.

3. Enter the name and password of the server.
   - Login: Olympus (Note that this is different from the Extreme Login)
   - Password: SoundTest

You can now access the folder structure of the server on your computer.

5.4 Accessing the desktop of the server

Contrary to the Extreme Server, the Olympus Server does not require access to its desktop or Operating System. Whereas the Extreme Server featured four USB Profiles that could be loaded from the desktop, this is no longer required for the Olympus. Any changes or updates, if required, can be done externally, or with assistance from our Support Team.

5.5 More about Roon

Roon offers far more functionality than we can list in this manual. Visit https://kb.roonlabs.com/ to find all information about Roon.

5.6 Updating the software

The server is supplied with all the required software and drivers. Roon updates are pushed automatically and can be installed via your Roon Control Point. In case a Taiko-specific update needs to be installed, we can remote-connect to perform this for you.

6 Technical Information

6.1 Specifications

Olympus Server Core Specs

AMD Threadripper 24-core
64Gb memory
2x BPS
1x Charger Power Supply
8x Regulator
Large fanless heatsink design, milled from a block of solid aluminum

Olympus I/O Core Specs

2x BPS
1x Charger Power Supply

Storage Info

The Olympus Server can house a single u.3 drive, which is available in sizes from 4 to 60 TB.

Internal Storage is particular to the Olympus, and existing Extreme server storage, which is a m.2 type, cannot be moved physically.

When you upgrade from Extreme to Olympus, your data will need to be migrated. For detailed instructions, please see our separate “Migrate Storage Guide” that can be found in the Downloads section on the Taiko Audio website.

Output Modules

Output Modules can be exchanged easily when new formats have been devised. Currently available are an analog output DAC module, an AES/EBU + SPDIF digital module, and custom implementations for MSB or Lampizator DACs. An Aries Cerat interface is being worked on.

Analog Output Specs

Output Voltage: 2.8V RMS
Output current: 50 mA
Output impedance: 100 Ohm

Connections – Olympus Server

Standard connections include an Olympus-specific USB Card and Olympus-specific Network Card. The Extreme server’s USB- and Network cards do not work with the Olympus.

The Olympus Server can also fit a selection of XDMI Output Cards, one at a time. Depending on the XDMI module fitted, you can simultaneously have installed either:

1) USB + XDMI SPDIF on RCA + AES/EBU as 3 operational outputs
2) USB + XDMI Direct DAC connection as 2 operational outputs
3) USB + XDMI Analog out on RCA as 2 operational outputs

Please note that the USB port is not compatible with external thumb drives/USB sticks or USB drives. For detailed instructions for adding music to the Olympus, please see our separate “Migrate Storage Guide” that can be found in the Downloads section on the Taiko Audio website.

Connections – Olympus Server to Olympus I/O

When the Olympus Server is combined with the I/O, the Server and I/O are each fitted with two 400Gbps QSFP-DD interface cards, which are interconnected via two 800Gbps QSFP-DD Passive Direct Attach Copper Cables.

Connections – Olympus I/O

The Olympus Server and I/O are each fitted with two 400Gbps QSFP-DD interface cards, which are interconnected via two 800Gbps QSFP-DD Passive Direct Attach Copper Cables.

For the Olympus I/O, you can have one active XDMI output at a time. So, you can use either:

1) XDMI SPDIF on RCA + AES/EBU as 2 operational outputs
2) XDMI Analog Out on RCA as 1 operational output
3) XDMI Direct DAC interface (such as Lampizator or MSB) as 1 operational output

In addition, USB also remains available on the Olympus Server

Supported Sample Rates

XDMI Digital Output (AES/EBU):
Up to 24bit/192kHz and up to DSD64 via DoP (AES/EBU does not support Native DSD)

XDMI Analog Output:
Up to DSD512 and PCM 32/768kHz
The DAC supports both DoP and Native DSD

USB connection:
Up to DSD512 Native or DoP in combination with Roon (if supported by your DAC)

Not Supported

DSD upsampling in Roon is not supported

Power Requirement

1x Mains Power input for the Olympus
1x Mains Power input for the Olympus I/O

Fuses

Both the Server and the I/O have two Schurter ceramic fuses with gold-plated caps installed. The two fuses are both actively used. 250V fuses are used for all regions. Schurter fuses can be purchased from many resellers, for instance Farnell.

Dimensions: 5x20mm (2 fuses per device)

Olympus
For 230/240V regions: 2x Schurter 0001.2707.11, 2A, 250V, slow blow
For 110V regions: 2x Schurter 0001.2710.11, 4A, 250V, slow blow

I/O
For 230/240V regions: 2x Schurter 0001.2704.11, 1A, 250V, slow blow
For 110V regions: 2x Schurter 0001.2707.11, 2A, 250V, slow blow

Power Consumption

The Olympus Server's normal power consumption during music playback is 45 watts. The charger's power consumption depends on how the charging behavior is configured. With a very short window to charge the battery packs all at once, this can be up to 150 watts for the Olympus Server and up to 100 watts for the Olympus I/O.

Input connector

C15

Grounding posts Olympus Server

Grounding is not required or recommended but to facilitate certain use cases, the Olympus Server is fitted with 2 binding posts for grounding purposes.

Looking at the back, the left binding post next to the AC power inlet connects to the charger AC-DC power supply, which is grounded through the IEC inlet ground pin as well, which is a safety requirement, but the entire AC/DC charger supply does not connect to the rest of the Olympus chassis, it truly floats.

The right grounding post next to the USB ports grounds the chassis which floats by default.

The analog output signal ground is tied to the chassis.

Grounding post Olympus I/O

The ground post on the I/O grounds both the AC battery charging supply as the chassis.

There is no signal ground provision for the I/O.

Modular Footers

The Olympus and Olympus I/O come with adjustable and removable footers. Both chassis have four recesses, 8mm (about 0.31 in) deep and with a 90mm (about 3.54 in) diameter. The footers are made of Acrylic material with a diameter of 50 mm (1.97 in), and screw into the chassis. The screw used to attach the footers is an M6x12, using a 4mm HEX/Allen key.

The distance between the center points (screw holes) of the footers is 380 mm (about 14.96 in). The recesses are fitted with an M6 (6mm) thread (standard "coarse" 1-mm DIN thread). The M6 thread provides compatibility with M6-equipped aftermarket footers.

Warning! Aftermarket Footer Placement

Use aftermarket footers only in the intended recesses in the four corners. These have been machined such that they can safely support the weight. Placing footers directly under the bottom panel may cause internal structural damage, especially when used under the I/O with the server stacked on top. Aftermarket Footers can be used directly underneath the mounted acrylic footers, or the acrylic footers may be removed. The recesses are fitted with an M6 (6mm) thread which provides compatibility with M6-equipped aftermarket footers.

Finish

Silver Anodized or Black Anodized

Olympus Server Dimensions

Height: 190 mm (7.48 in) including removable footers
Width: 480 mm (18.90 in)
Depth: 480 mm (18.90 in)

Olympus I/O Dimensions

Height: 105 mm (4.13 in) including removable footers
Width: 480 mm (18.90 in)
Depth: 480 mm (18.90 in)

Olympus Server Weight

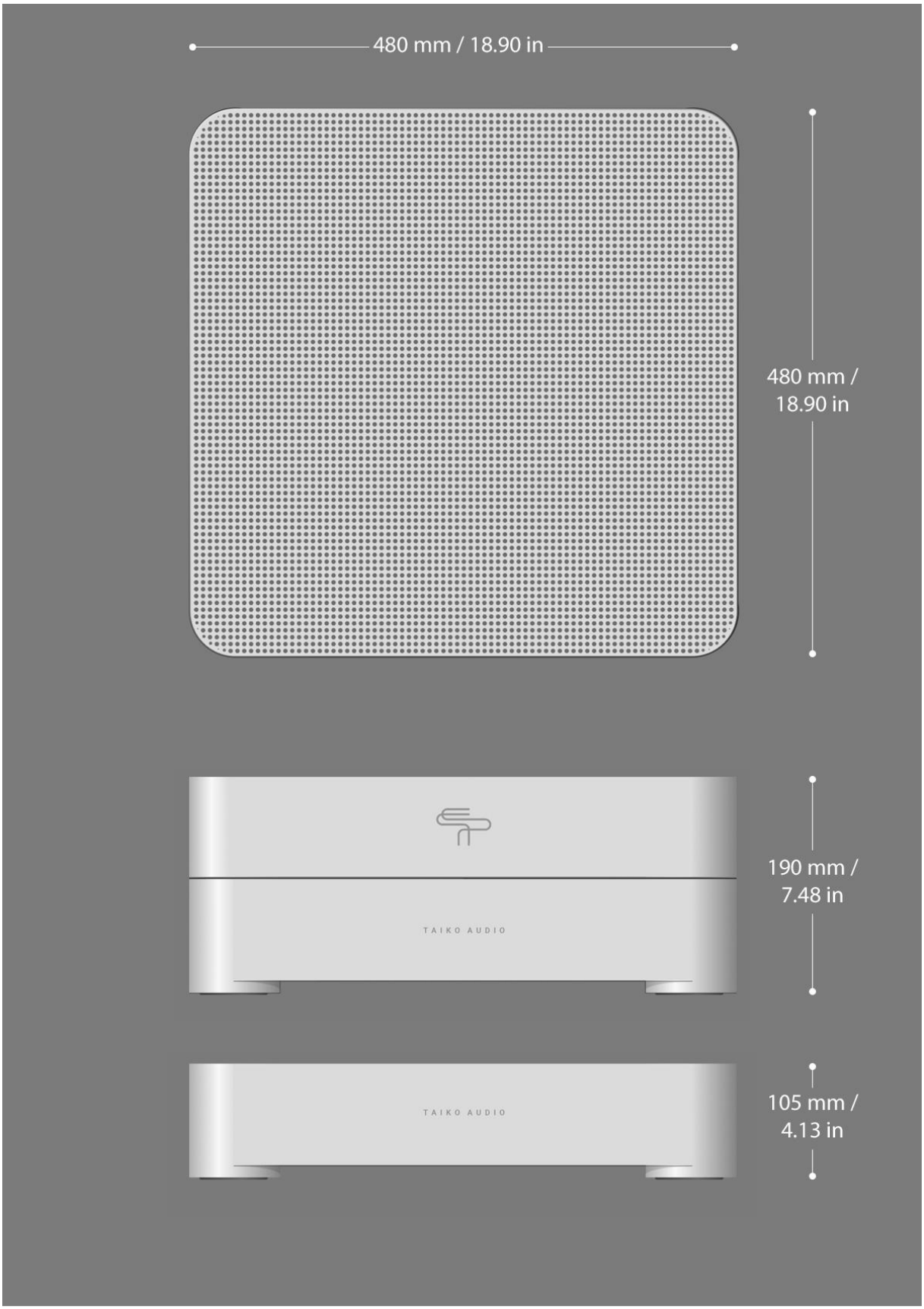
~ 60 kg

Olympus I/O Weight

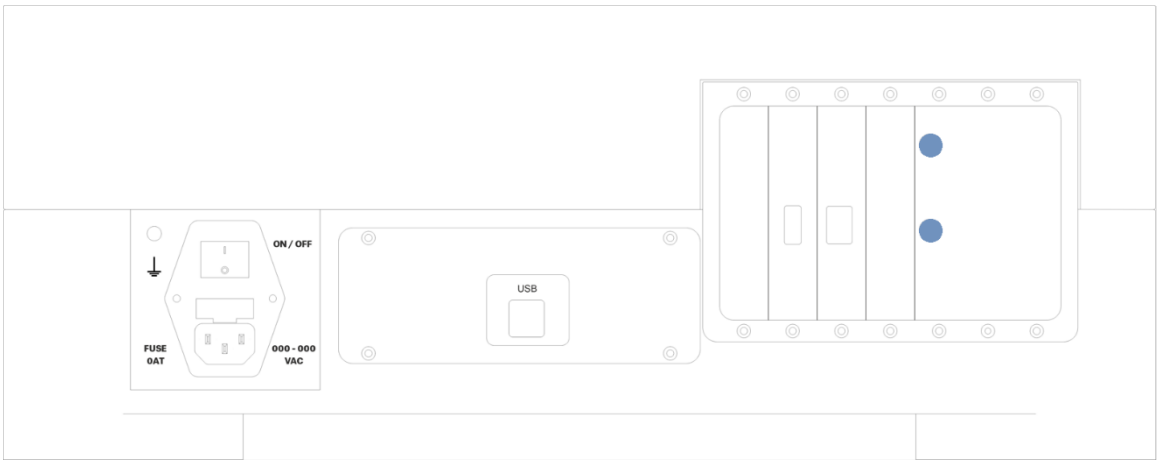
~ 25 kg

Caution! The installation of 3rd party software would degrade the audio quality and is therefore prohibited. Cleaning and removing user installed software may incur service charges.

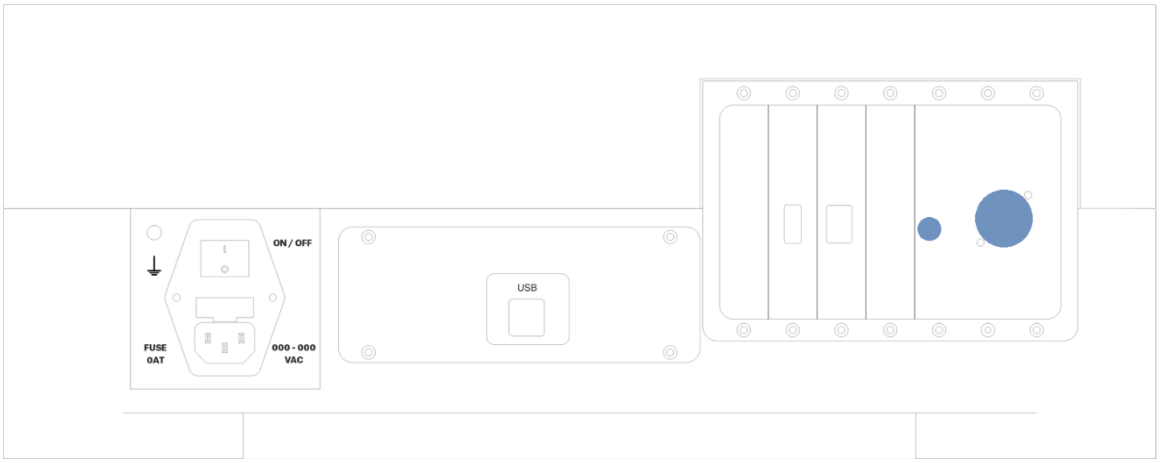
6.2 Dimensions



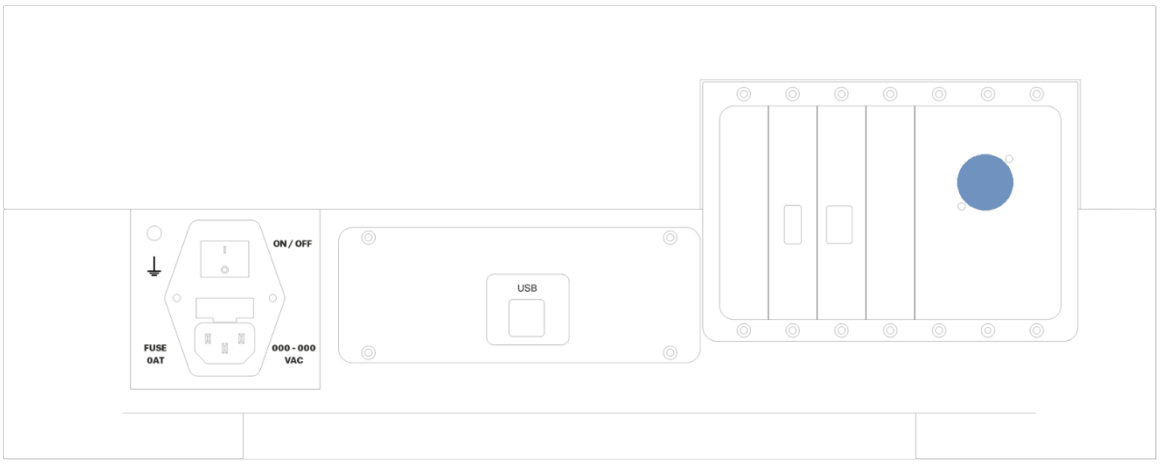
6.3 Olympus Server Back Panel Diagram



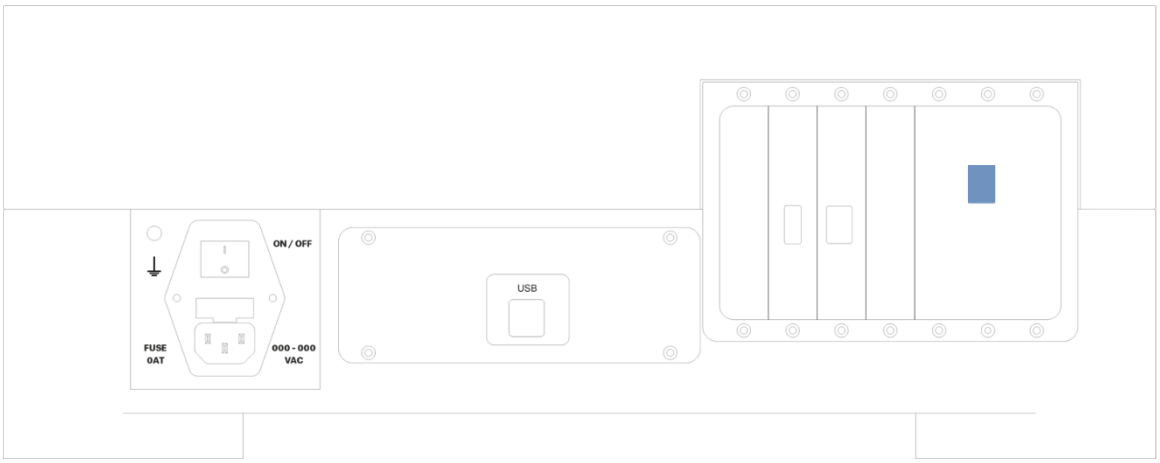
Above: Olympus back panels with Analog Output XDMI card mounted



Above: Olympus back panels with Digital AES/SPDIF Output XDMI card mounted



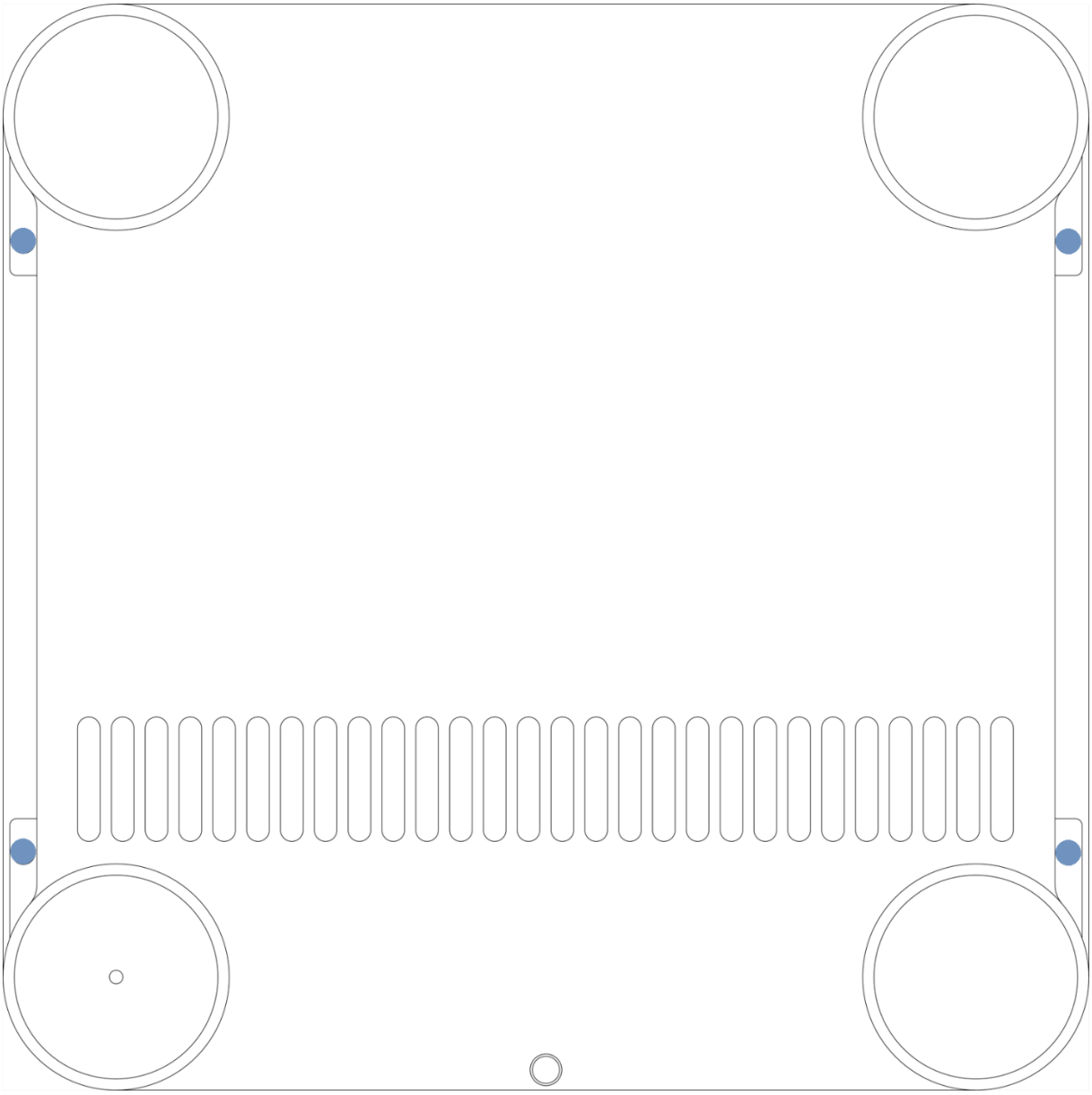
Above: Olympus back panels with Lampizator XDMI card mounted



Above: Olympus back panels with MSB Pro ISL Output XDMI card mounted

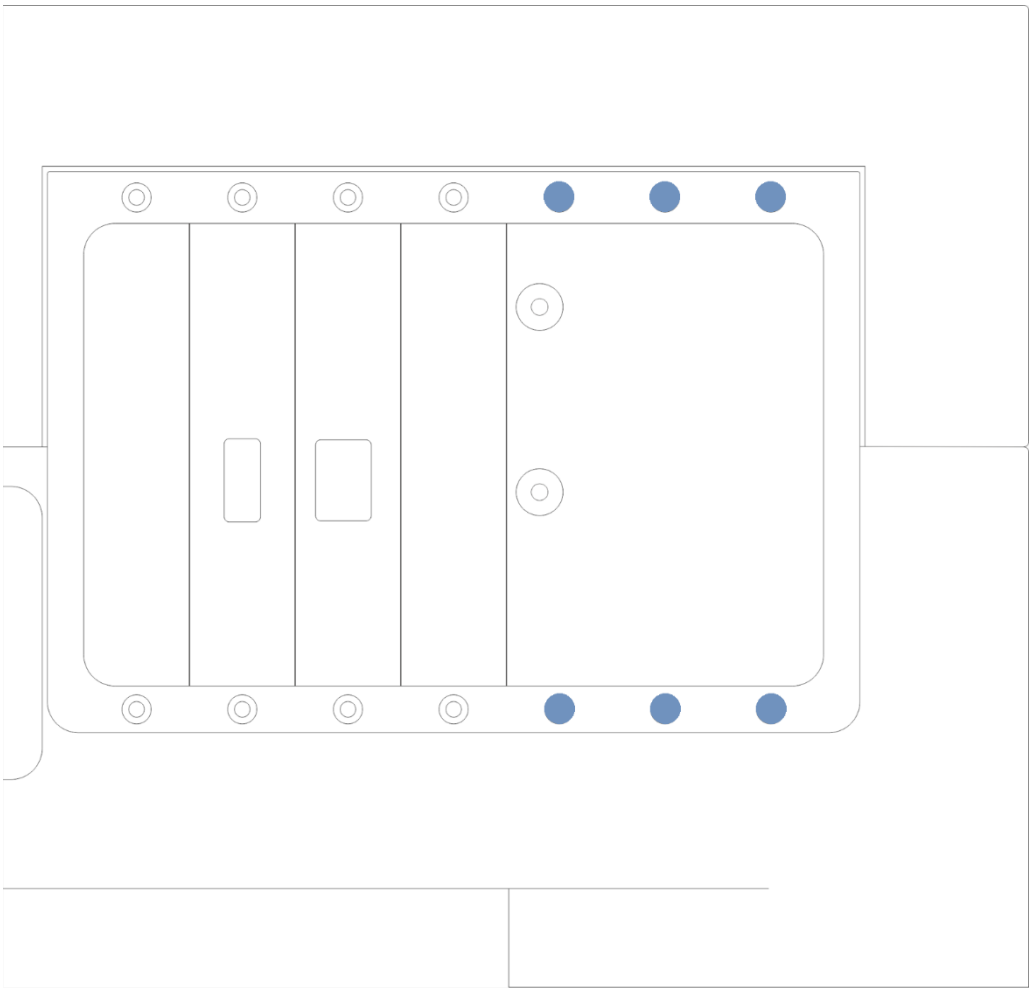
6.4 Olympus Server Bottom Panel Diagram

Location of the four 4-mm Hex (inbus) screws that secure the server's top and bottom sections.



6.5 Olympus Server XDMI Card Diagram

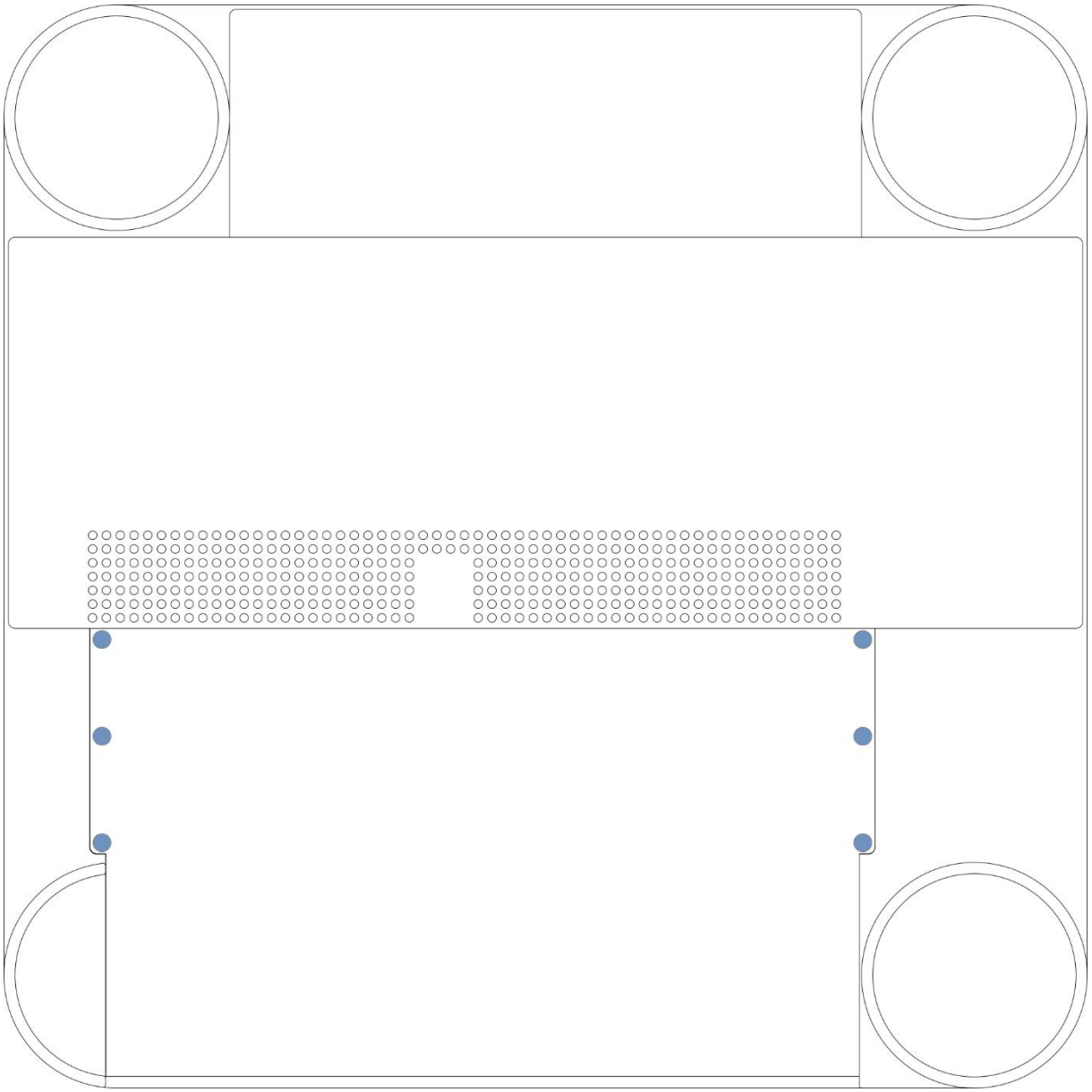
Location of the six 2-mm Hex (inbus) screws that secure the XDMI Card.



Please refer to the Complete Manual for detailed instructions on how to change the XDMI Daughter Boards.

Olympus I/O Bottom Panel Diagram

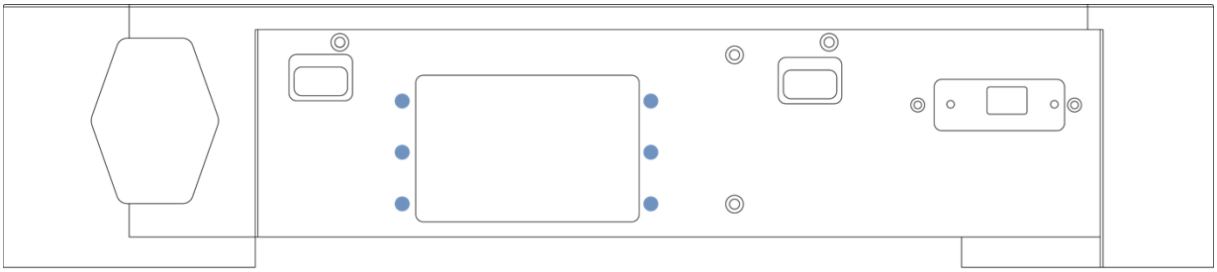
Location of the six M3, 2-mm Hex (inbus) screws that secure the I/O's bottom panel.



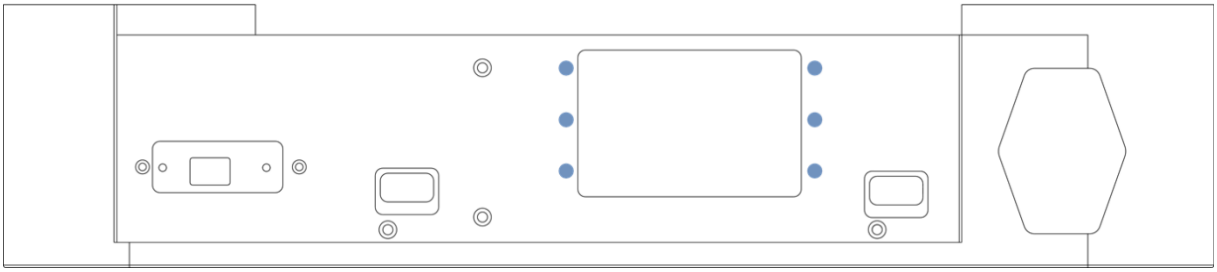
6.6 Olympus I/O XDMI Card Diagram

Location of the 6 screws on the backpanel that secure the XDMI card in the PCI slot.

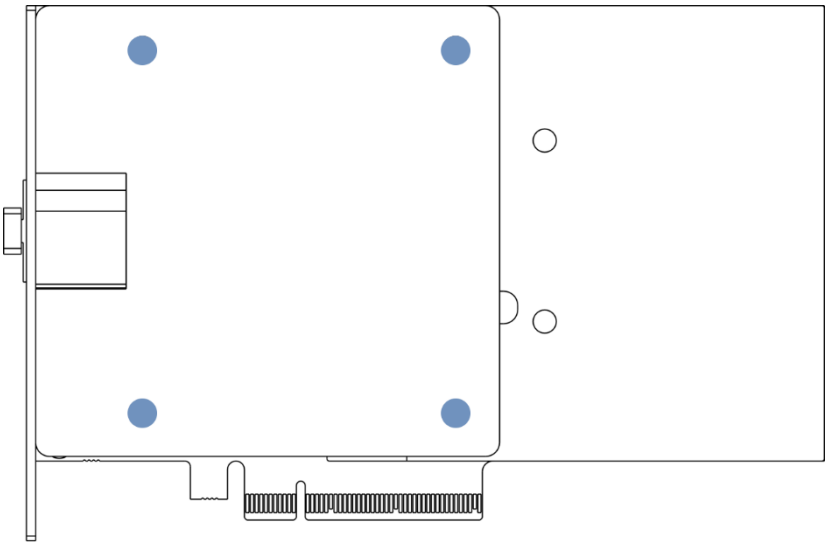
Unit standing on its feet:



Unit turned upside down (for easy access):



6.7 XDMI Card with Daughter Board Diagram



Above: a schematic of an XDMI Card, showing the XDMI PCI base board with a Daughter Board on top, showing the locations of the 4 screws that secure the Daughter Board to the XDMI base board.

Please note that the analog Daughter Board requires different length screws than the digital Daughter Boards. If ordered separately, these longer screws are delivered along with the analog board.

7 Warranty

The server has a two-year warranty for parts and labor of the replacement of any item or component that fails during normal operation in an adequately ventilated space with a temperature less than 32 °C.

Should you experience any problem, do not hesitate to email your contact info to Taiko Audio at support@taikoaudio.com and suggest a call time for a Taiko representative to get in touch with you and carry out remote examination / diagnostics of the server.

8 Contact

E-mail: support@taikoaudio.com
Website: www.taikoaudio.com
Adres: Zandbreeweg 6
7577BZ Oldenzaal
The Netherlands