



# *MU1* Quick Start



## **Before you start**

The MU1 is a streamer with Roon, Tidal connect and UPnP/DLNA and has digital inputs for connecting other devices. Each streaming service has their own interface which makes use of an app.

You control the MU1 via the web interface and some functionality such as volume control and source selection can be done with the main dial.

### **Roon**

In the MU1 is a Roon Server and Roon Endpoint in one, its user interface is the Roon Remote App which is available for macOS, Windows, Android and iOS. You need to have a subscription to the Roonlabs service. Check out [roonlabs.com](https://roonlabs.com) for more information and pricing.

### **Tidal Connect**

Tidal is a streaming service, the user interface is available for macOS, Windows, Android and iOS. You need to have a subscription to the Tidal service. Check out [tidal.com](https://tidal.com) for more information and pricing.

### **UPnP**

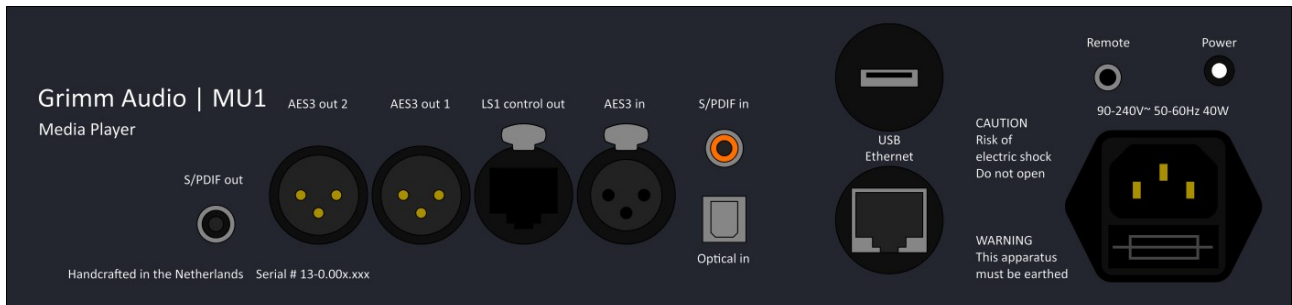
UPnP/DLNA is a network protocol standard which can be used to stream audio within your home network. There are many apps which make use of UPnP to stream music. The MU1 contains an UPnP renderer to process and play music.

### **Digital inputs**

There are three digital inputs on the back of the MU1 via XLR, RCA and Toslink. You can connect a source to these inputs like your TV or CD transport. The digital inputs support AES3 and DoP from 44.1 up to 192kHz.

## Connecting and powering up

For a working system, you need at least a power connection, a wired internet network and a DAC or speaker system with digital inputs. The image below shows the connections on the back of the MU1.



The MU1 is shipped with a proper mains power cable, use this to connect the MU1 to a mains outlet. The MU1 works with nominal mains voltages from 90V to 240V.

Next, connect the MU1 to your local network using a CAT5e or higher category cable that you connect to the *Ethernet* port of the MU1. The MU1 automatically obtains an IP address from the DHCP server of your router when switched on.

Then connect your DAC or active speaker to the MU1. If you have the Grimm Audio LS1 loudspeaker system, use the proprietary *LS1 control out* connector. If your DAC has a digital XLR input, connect it to the *AES3 out 1* XLR connector using an XLR cable. If your DAC does not have a digital XLR input but a digital RCA input, connect that to the *S/PDIF* out connector of the MU1 with a coaxial cable suited for S/PDIF.

When these 3 connections are made you can turn on the MU1 by pressing the small white *Power* button on the back. During the boot process, the display will scroll white blocks until ready. The 'i' in the Grimm logo will light up continuously in the on state.

# Roon

## First time setup

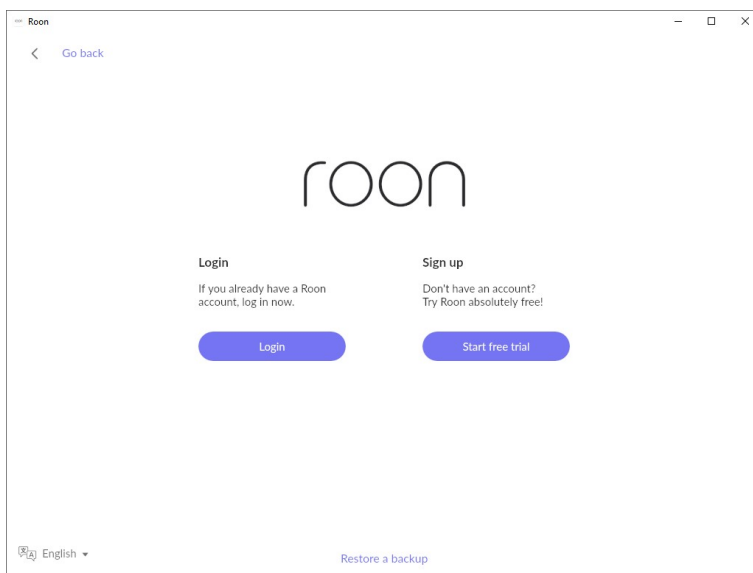
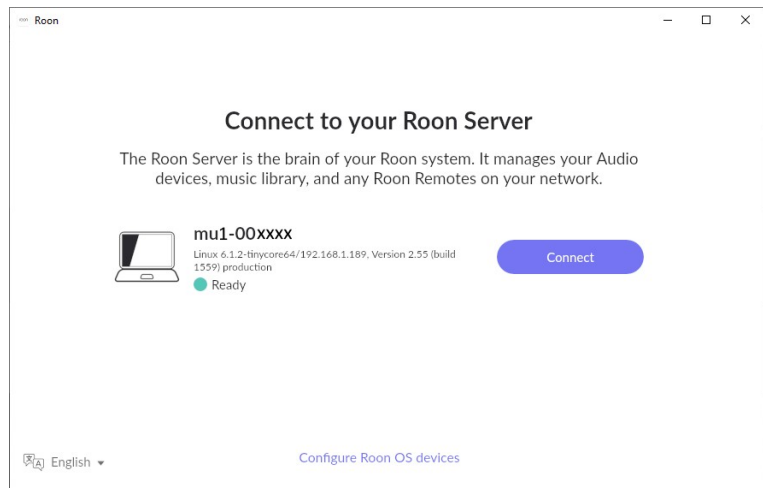
When you turn on the MU1 for the first time, or when you performed a Roon database reset, you need to set up Roon for its first time use.

## Select your Roon Server and log in

Open the Roon Remote app on your favorite device and it will ask you which Roon Server you like to use.

The Roon Server in the MU1 is shown with the last part of your unit's serial number. If the MU1 does not show up, check if your Remote is connected to the same network as the MU1 and check if the MU1 has an IP address. Please consult the main MU1 software manual for information about how to do this.

Press the Connect button to continue.



In the next screen you press the Login button to log in to your Roonlabs account. You can also start a free trial.

The login button will bring you to the Roonlabs website where you fill in your credentials, the page will send you back to the Roon app.

If you have problems logging in or other problems directly related to Roon, please check out the [Roonlabs help page](#) or ask for help on the [Roon support forums](#).

For support from Grimm Audio, please contact us using the [support form](#) on our website.

*Note: Some of the next steps were preset for you in the factory. In some cases, for instance after you have reset your Roon database, you need to follow all these steps:*

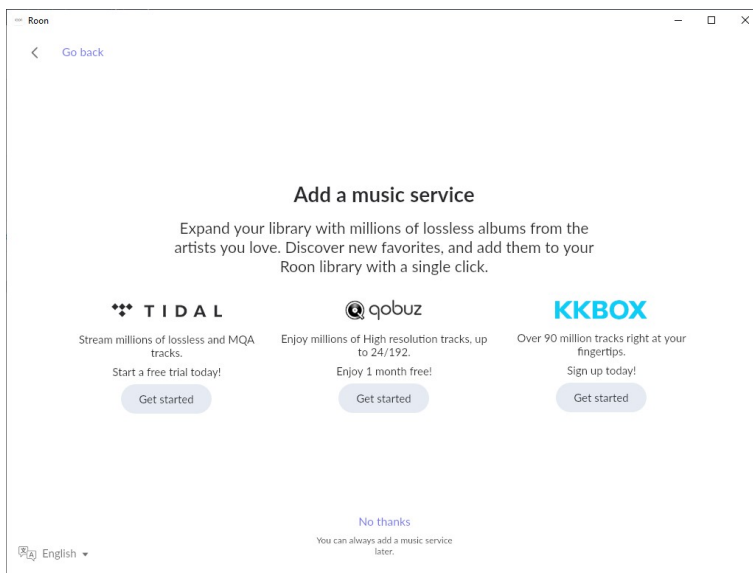
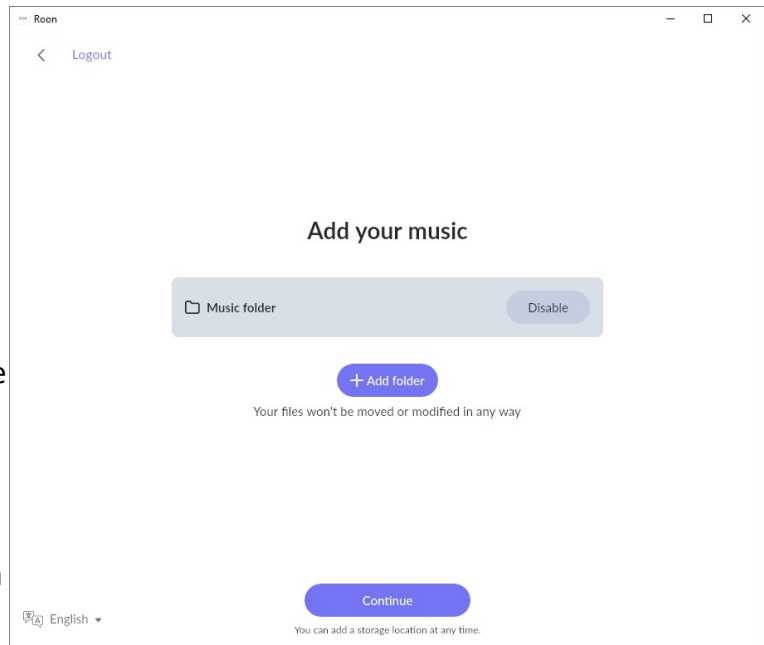
## Add music

After logging in you will see the 'Add your Music' page. Here you can add your local music files to Roon.

If you bought an MU1 with internal storage this is automatically added as *Music folder*.

You can add a network drive such as a NAS to the MU1 storage by clicking the *Add folder* button. Information about how to do this can be found [here](#) on the Roonlabs website.

Click *Continue* when you are done with setting up your local music or when you don't want to make use of local storage.



The next page allows you to connect your Tidal, Qobuz or KKBOX streaming services to Roon. These are separate subscriptions. One of the great things of Roon is that music from these services integrates seamlessly with your local music.

If you do not want to make use of these streaming services or prefer to add them later, click the *No thanks* button.

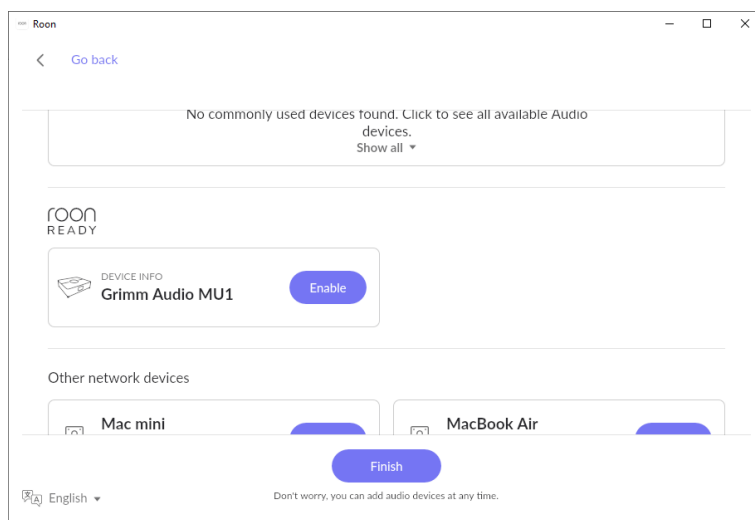
Next, you will enter the Audio settings page of Roon.

## Enable the audio device

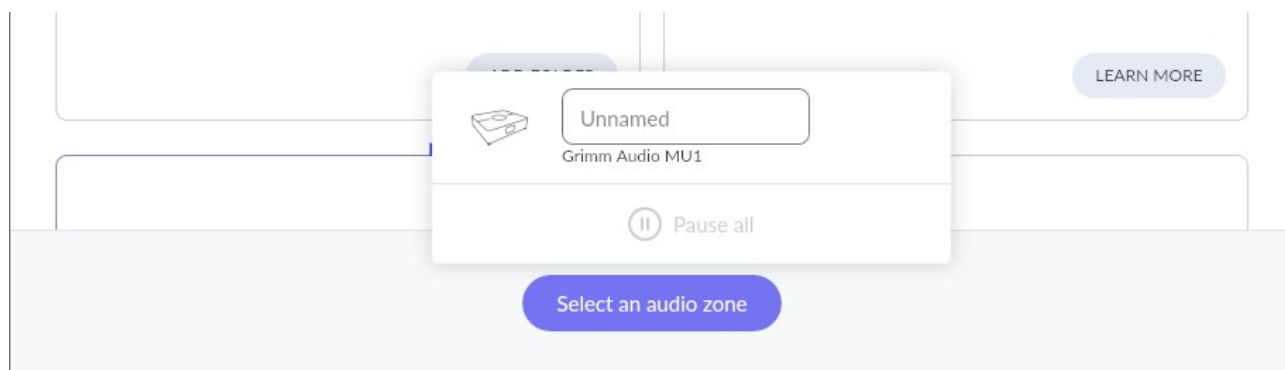
Here you should set the MU1 as audio device, scroll down to select the MU1 in the category “Roon Ready” and enable it.

*Note: Do not select the output in the category “Connected to Roon Server”, this has changed since the MU1 has an official endpoint. You need to select the Roon Ready endpoint now.*

Press *Finish* to continue.



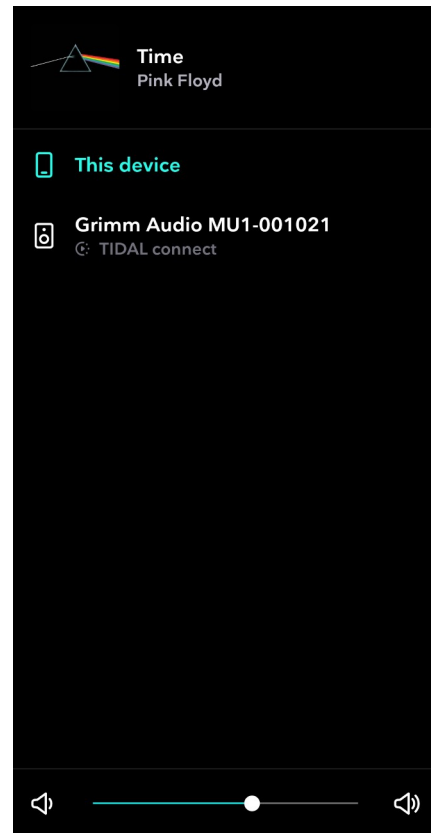
You will now enter the main page of Roon. Press the Select an audio zone button and choose the *Grimm Audio MU1*.



## Tidal

To use Tidal connect with the MU1, follow these steps:

- In the Tidal app, open the Now Playing screen while playing a track.
- From the Now Playing screen, select the device output icon.
- Choose the MU1 from the list, it is shown as MU1-xxxxxx (the hostname of your MU1).



The MU1 will automatically switch the source to Tidal when the MU1 is selected via the Tidal app and music plays. You can also manually switch the MU1 to Tidal Connect via the GRUI or by using the main knob.

## UPnP

UPnP works via a control point (usually an app), a server and a renderer. The server can be a dedicated server on a computer, router or NAS, or can be integrated in the control point. On the control point you decide what music to play and the music is then streamed from the Server to the renderer which is in the MU1.

Every UPnP control app has a function to check for UPnP renderers on the local network. The renderer in the MU1 is named "MU1 UPnP Renderer [MU1-xxxxxx]" (the hostname of your MU1).

The MU1 will automatically switch its source to UPnP when the MU1 is selected as renderer via the control point and playback starts. You can also manually switch the MU1 to UPnP as source via the GRUI web interface or by using the main knob.

Depending on your UPnP control app you can play locally stored music, streaming services or internet radio. To play music from the internal disk of the MU1, you must add it as network disk to the storage setting in your control app.



## GRUI web interface

The MU1 has a web interface (the “GRUI”) to control the MU1 specific settings. You can connect to the web page through the internet browser using any computer, tablet or smartphone provided it is connected to the same network as the MU1.

The quickest way to enter the GRUI with your tablet or smart phone is to scan the QR code on the display of the MU1, in menu [4/7]. To enter the menu, press-hold the main knob until the first menu appears. Release the button and turn it right until the fourth menu page is visible. Scan the QR code with your device. To exit the menu, press-hold the main knob again.



Alternatively you can enter the url link shown at the bottom of the QR page into your browser. If your router and remote device support it, you may also visit the GRUI by using the hostname instead of the IP address. The hostname can be found at the bottom of menu [2/7], it consists of a part of the serial number of your unit. Some browsers require you to add the prefix “http://” to the hostname, as in “http://mu1-00xxxxx”.

Please read the main MU1 software manual for more information about the functionality of the GRUI web interface. You can find the latest version of this manual under the downloads tab of the MU1 page on our [website](#).

## Stand-by

To put your MU1 in stand-by, press-hold the main knob until the first menu appears. A short press on the main knob will now bring it into stand-by mode. The LED on the ‘i’ in the Grimm logo will slowly fade to indicate the MU1 is in standby state.

To wake up the MU1 again, just turn or press the main knob.

*Hint: It is possible to wake up the MU1 via an IR remote, check the MU1 software manual for details.*

## Updates

The software of the MU1 may be updated over time. Updates can offer improvements, new features or bug fixes. Please keep your MU1 updated to the latest version.

When there is an update available it is notified through our newsletter. You can sign up for the newsletter via the footer of every page on our [website](#). An update notification will also appear on the main menu of the MU1 display and in the GRUI.

Updates are installed via the settings menu of the MU1. To enter the menu, press the main knob until the first menu appears. Release the button and turn it right until you entered the update menu [6/7]. If you see that an update is available you can start the update process by pressing the main button twice, once to start and once to confirm. Please note that the screen may freeze and even turn completely white for a long time during an update. Depending on the update this may take up to 30 minutes.

**Never** unplug the unit from the mains while it is updating.

If anything seems to go wrong during the update, please contact Grimm Audio support through the [support form](#) and we will help you out quickly.

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