

## Muse

TY-A-MUSE



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Version 1.2



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### Product Modifications

Date	Version	Modifications
19/05/2022	1.0	Initial release

### Document Revisions

Date	Version	Document Changes
19/05/2022	1.0	Initial draft
29/07/2022	1.1	Updated Terminology
05/01/2023	1.2	Added AirPlay 2 Support



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## 1 Preface

### 1.1 Description of the User

This User Guide is intended for professional installers such as electricians or system integrators.

### 1.2 Explanation of Safety Warnings

#### **⚠ DANGER**

Danger indicates a hazard with a high level of risk which, if not avoided, will result in death or serious injury

#### **⚠ WARNING**

Warning indicates a hazard with a medium level of risk which, if not avoided, could result in death or serious injury.

#### **⚠ CAUTION**

Caution indicates a hazard with a low level of risk which, if not avoided, could result in minor or moderate injury.

#### **NOTICE**

Indicates information considered important, but not hazard-related.

### 1.3 Retaining Instructions

Read and understand this manual and its safety instructions before using this product. Failure to do so can result in serious injury or death.

Ensure that each person who uses the product has read these warnings and instructions and follows them.

Tyba Home Limited is not liable for cases of material damage or personal injury caused by incorrect handling or non-compliance with the safety instructions. In such cases, the warranty will be voided.



## 2 Product Description

### 2.1 Intended Use and Reasonably Foreseeable Misuse

Muse is intended to be used as an audio streaming server, providing multiple streams of playback distributed using Dante or AES67. Muse is not intended to be used for any function outside those described.

Muse should be used with the following software, original accessories and components only:

- Muse Manager for Windows & macOS.
- Genuine Audinate certified Dante products.
- Muse control system drivers or third party API.

### 2.2 System Overview

Muse is an audio streaming server providing multiple streams of playback distributed over Dante or AES67. Muse is a source product designed to be used along side other Dante certified devices. Muse Manager software is used to manage all elements of the Muse system.

### 2.3 Technical Data

Parameter	Description
Product Name	Muse
Product Code	TY-A-MUSE
Streaming	AirPlay 2   TIDAL   Deezer   Internet Radio
Audio Formats	AAC   ALAC   WAV   FLAC   MP3   AIFF   OGG
Sample Rate	44.1kHz   48kHz   96kHz   192kHz
Audio Output	Dante   4, 16 or 64 streams
Storage	Internal 220GB   USB3   NAS
Control	HTTP Control API   Crestron Driver
Software Updates	OTA
LAN	(2) 10/100/1000Mbps BaseT Ethernet
Dante	(2) 10/100/1000Mbps BaseT Ethernet
USB	(4) USB3
Power	12VDC



Dimensions	W 440mm   H 44mm   D 262mm   IRU
Weight	2.8kg
Warranty	1 Year Limited Warranty
Certification	CE   UKCA   FCC   IC
Content Management	Muse Manager

## 2.4 Product Compliance

This product complies to all relevant Directives associated with CE, UKCA, IC & FCC. The Declaration of Conformity and further certification documentation can be found at [www.tybahome.com/downloads](http://www.tybahome.com/downloads).



### 3 Safety Instructions





#### **⚠ CAUTION**

Read and understand this manual and its safety instructions before using this product. Failure to do so can result in minor or moderate injury.

#### 3.1 How to Use the Product Safely

When using this product, ensure all guidance is followed regarding technical specification, installation, setup and operation. Never use this product with anything other than Tyba genuine accessories.

#### 3.2 Graphical Symbols

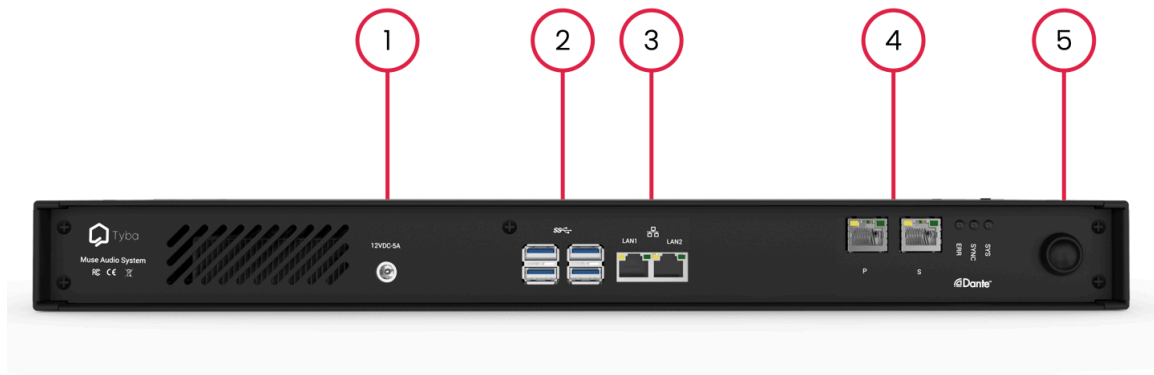
Symbol	Meaning
	The CE Marking on the product is the manufacturer's declaration that the product complies.
	The UKCA Marking on the product is the manufacturer's declaration that the product complies.
	The FCC Marking on the product is the manufacturer's declaration that the product complies.
	The WEEE Marking on the product is the manufacturer's confirmation that the product is not recyclable.

## 4 Installation

### ⚠ CAUTION

The product should only be installed by a qualified and trained person.

#### 4.1 Connections and Physical Details



Key	Description
1	Power Input 12VDC 5A
2	USB3
3	Network Interface LAN 1 & LAN2
4	Dante Network Interface Primary & Secondary
5	Power Button

#### 4.2 Rack Mounting

Muse is designed to be mounted in a standard 19" rack. Equipment can be stacked directly above and below Muse if required.



## 5 Setup

### **NOTICE**

It is recommend that setup is carried out by a qualified and trained person.

#### 5.1 Powering On

Once Muse is powered using the supplied power supply, press the power button on the rear panel. The LED logo on the Muse front panel will light up white and the device will begin to start up. If the device is new it will start up in DHCP mode.

#### 5.2 Connecting

To setup Muse you will need to locate Muse on your local network and then use the Muse web interface to complete setup.

To locate Muse on your local network choose from one of the following options:

- Using a web browser, locate Muse using `museserver.local`
- Scan the local network using an IP scanner to find the IP address that Muse has been assigned by your DHCP server.
- Connect to your router and find the IP address that Muse has been assigned by your DHCP server.

### **NOTICE**

A network with DHCP enabled is required for initial setup.

Once the IP address or host name has been located, use a web browser to browse to the address. You will be prompted for a username and password:

Username: muse

Password: museadministration

#### 5.3 Settings Overview

Now that you are connected to Muse and have launched the web interface you are able to configure the device as required.

The settings available on the device are as follows:

### System

Setting	Description
System	Overview system information including OS Version, server state, CPU usage, temperature, free memory and the system start date
Firmware	Firmware update manager
Logs	Provides the system logs
Time Zone	The time zone that the Muse system is located
Factory Reset	The date and time of the device, select from automatic or manual

### Network

Setting	Description
LAN 1	Primary network interface. Choose from DHCP or Static address
LAN 2	Secondary network interface. Choose to enable and DHCP or Static address

### Audio

Setting	Description
Device	The audio output used by Muse
Streams	The streams availability, names and services available on each stream
Normalisation	Applies gain control to tracks to ensure audio level of all tracks is consistent

### Storage

Setting	Description
Storage Type	Storage location. Internal, USB or NAS
Capacity	The available capacity of the storage location



## 5.4 System

The system section provides useful information on the health and state of the Muse system.

## 5.5 Firmware

The firmware section provides the current version of firmware running on the system as well as a method to update the firmware over the air. It is important to keep the system up to date. Click the Update Firmware button to start and confirm you are happy to proceed. Muse will begin the update procedure. The update process can take anywhere from 1 minute to 15 minutes depending on the size of the update and your internet speed. After a successful update, Muse will restart and the new firmware version will be displayed in the firmware section.

### **NOTICE**

It is important that you do not power off Muse while an update is in progress. An internet connection is a requirement when carrying out a firmware update.

## 5.6 Logs

The logs section provides the ability to download the complete system logs to be supplied to [support@tybahome.com](mailto:support@tybahome.com) in case of any system errors.

## 5.7 Time Zone

The time zone section provides the ability to set the required time zone, this is used by Muse for various functions so it is important it is correct.

## 5.8 Network

The network section provides the ability to configure the network setup for the Muse system. By default Muse uses the primary LAN 1 interface set as DHCP. Should you wish to set Muse to a static IP address you can change the configuration type to Static and fill in the required fields. Once you have entered the static IP, subnet, gateway and DNS address, press Apply. You will need to browse to the static IP address you have chosen in order to connect to the Muse web interface or you can refresh the Muse hostname to connect again.

Muse also has a second network interface, LAN2. This interface can be optionally setup for load balancing or data segregation.



## 5.9 Audio Device

The device section provides the ability to change the sample rate in which the system operates. It is important that you set the sample rate to match the sample rate you have set for Muse in Dante Controller.

## 5.10 Streams

The stream section provides a breakdown of all of the available Muse streams. By default each stream is named "Muse" followed by the stream number. You can change the name of the stream to better identify the stream. The stream names will be displayed in Muse Manager and are used as the broadcast name for streaming services such as AirPlay 2.

## 5.11 AirPlay 2

To enable AirPlay 2, tick the corresponding box next to each of the streams you require AirPlay 2 support. Click Apply at the bottom of the section. The AirPlay 2 service will appear on your network for the streams selected using the stream names provided. Applying changes to streams will cause Muse services to restart, during this time audio playback will be affected.

### **NOTICE**

If a Muse AirPlay 2 stream is added to a Home within the Apple Home app then the name of the stream within Muse can no longer be edited. To gain control of the stream name within Muse, remove the Muse stream from the Home within the Apple Home app.



Use of the Works with Apple badge means that an accessory has been designed to work specifically with the technology identified in the badge and has been certified by the developer to meet Apple performance standards.

## 5.12 Normalisation

When enabled, normalisation will require a scan of the Muse library to apply replay gain to the tracks stored on Muse. After the scan has completed, all tracks on Muse will be normalised and should playback at the same audio level.



### 5.13 Internal Storage

When set to Internal, Muse will locate the audio files on the internal storage.

### 5.14 USB Storage

When set to USB, Muse will locate the audio files on the USB storage. If using USB storage is important that your USB drive is formatted and setup by Muse. Connect the USB drive and follow the format option to prepare your drive for use with Muse.

## **NOTICE**

Formatting the USB drive will wipe the contents.

### 5.15 Network Storage

When set to Network, Muse will locate the audio files on a network storage location. Only NFS shares are supported. You will be prompted to supply the IP address as well as the path to the NFS share location.



## 6 Maintenance

### **⚠ CAUTION**

The product is maintenance free. Repair should only be carried out by a qualified and trained person.