

MMP1 Setup Guide

Version 1.0





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April 2018, version 1.0 released

1. Introduction

This guide explains how to build an audio monitoring system using Yamaha MMP1, a studio monitor management system, and how to install and configure each required/related equipment and software.

The system can contain many elements including peripheral equipment such as powered speakers, microphones for talkback, mic preamps, headphone amps, cough boxes, VU meters, GPI devices, as well as computer system such as PC/Mac, iPad, network switches and software such as DAW, configuration software, controller app and so on, which requires experience and accumulated knowledge.

This guide will walk you step-by-step through installing each piece of primary equipment, connecting them via various types of cabled needed, installing software, apps and all the aspects of setup that need to be handled before the system can be used.

This guide will not explain how to operate each equipment and, for how to operate them, please refer to the operation manuals.

2. System Configuration and Channel Planning

This guide will use the following system example of a studio for recording and editing 5.1 surround sound.

Surround Studio (5.1ch)

A full 5.1 channel speaker system is provided in the control room in addition to two pairs of stereo monitors (near-field and small). Separate talkback microphones are provided for the engineer and director. Three cue feeds are provided for the recording. MMP1 analog output is expanded via the Dante interface, and built-in MMP1 bass management is applied to the 5.1 channel speaker system.

- 5.1 channels of "Dialog", "Music" and "Sound Effects" stems are input to MMP1 as monitor sources
- Bass management is applied to the Main Monitor (5.1ch, with LPF off and the trim level at 0dB)
- 3 different sets of speakers (5.1ch/Stereo[Large]/Stereo[Small]) are connected to Nuage I/O
- 5.1ch and stereo down-mix signals are sent to VU meter device
- 3 different stereo Cue mixes are mixed in DAW are sent to MMP1 as Cue sources and output to each Cue headphones
- A pair of studio speakers are connected to Nuage I/O (via MMP1 Monitor Matrix to Studio Speaker Out bus, which are muted when Cough Mute is turned on)
- 2 talkback microphones are connected to MMP1 (via mic preamps). Multiple Talkback
 Destinations will be created to send the talkback signals to each Cue and Studio Speakers
- 4 more microphones are also connected to MMP1 (via mic preamps). Each signal will be processed by Channels Strip and sent out to DAW



[System Diagram]

2-1. Connecting Diagram

Below is the connecting diagram for this example (black=analog, red=LAN, blue=AES/EBU)



2-2. Signal Flow Chart

Below is a diagram which illustrates the signal flow of this example, in other words, how the input signals go through each device to the DAW for recording, and how the DAW playback signals go out to the speakers and headphones. In order to easily make the channel planning, refer to the following flow chart.



[Signal Flow Chart]

2-3. Channel Planning

Here is the assignment chart for analog, digital and Dante channels of MMP1, Nuage I/O and Dante Accelerator card:

| MMP1 | | | |
|---------|--------------------------------|----|---|
| Analog | Input | | Output |
| 1 | Mic In 1 | 1 | Cue 1 L |
| 2 | Mic In 2 | 2 | Cue 1 R |
| 3 | Mic In 3 | 3 | Cue 2 L |
| 4 | Mic In 4 | 4 | Cue 2 R |
| 5 | Talkback Mic 1 | 5 | Cue 3 L |
| 6 | Talkback Mic 2 | 6 | Cue 3 R |
| | | 7 | Headphone L |
| | | 8 | Headphone R |
| AES/EBU | Input | | Output |
| | | 1 | VU Meter L |
| | | 2 | VU Meter R |
| | | 3 | VU Meter C |
| | | 4 | VU Meter LFE |
| | | 5 | VU Meter Ls |
| | | 6 | VU Meter Rs |
| | | 7 | VU Meter Downmix L |
| | | 8 | VU Meter Downmix R |
| Dante | Input (from Dante Accelerator) | | Output (to Nuage I/O/Dante Accelerator) |
| 1 | Dialog L | 1 | Left [Nuage I/O] |
| 2 | Dialog R | 2 | Right |
| 3 | Dialog C | 3 | Center |
| 4 | Dialog LFE | 4 | LFE |
| 5 | Dialog Ls | 5 | Ls |
| 6 | Dialog Rs | 6 | Rs |
| 7 | Music L | 7 | Large L |
| 8 | Music R | 8 | Large R |
| 9 | Music C | 9 | Small L |
| 10 | Music LFE | 10 | Small R |
| 11 | Music Ls | 11 | Studio Speaker L |
| 12 | Music Rs | 12 | Studio Speaker R |
| 13 | Sound Effects L | 13 | Microphone 1 [Dante Accelerator] |
| 14 | Sound Effects R | 14 | Microphone 2 |
| 15 | Sound Effects C | 15 | Microphone 3 |
| 16 | Sound Effects LFE | 16 | Microphone 4 |
| 17 | Sound Effects Ls | | |
| 18 | Sound Effects Rs | | |
| 19 | Cue 1 L | | |
| 20 | Cue 1 R | | |
| 21 | Cue 2 L | | |
| 22 | Cue 2 R | | |
| 23 | Cue 3 L | | |
| 24 | Cue 3 R | | |

Nuage I/O

| Analog | Input | | Output |
|---|--|---|--|
| | | 1 2 3 4 5 6 7 8 9 10 11 12 | Left Right Center LFE Ls Rs Large L Large R Small L Small R Studio Speaker L Studio Speaker R |
| Dante | Input (from MMP1) | | |
| 1 2 3 4 5 6 7 8 9 10 11 12 | Left Right Center LFE Ls Rs Large L Large R Small L Small R Studio Speaker L Studio Speaker R | | |
| Dante Acce | lerator | | |
| Dante | Input (from MMP1) | | Output (to MMP1) |
| 1 2 3 4 | Mic In 1 Mic In 2 Mic In 3 Mic In 4 | 1 2 3 4 5 6 7 8 9 10 11 12 13 14 | Dialog L Dialog R Dialog C Dialog LFE Dialog Ls Dialog Rs Music L Music R Music C Music LFE Music Ls Music Rs Sound Effects L Sound Effects R |

15

16 17

18 19

20

21

22

23

24

Sound Effects C Sound Effects LFE

Sound Effects Ls Sound Effects Rs

Cue 1 L

Cue 1 R

Cue 2 L

Cue 2 R

Cue 3 L

Cue 3 R

3. Used Equipment List

The main devices used in this guide are as follows:

- 1. Yamaha MMP1
- 2. Dante audio interface (Yamaha Nuage I/O)
- 3. Dante PCIe card (Yamaha Dante Accelerator)
- 4. Monitor speakers (3 sets x Yamaha HS series) and a subwoofer (HS8S)
- 5. Mic preamp (Yamaha MLA8)
- 6. Network switch (Yamaha SWP1)
- 7. Cough box
- 8. 4x headphone amp (3 for Cue, 1 for Control Room)
- 9. VU meter
- 10. Main computer (computer for DAW)
- 11. Sub computer (computer for configuration software)
- 12. Apple iPad (for configuration app) and adapter (for wired connection)
- 13. Wifi access-point (Apple AirMac Extreme, for wireless connection)
- 14. 6x microphone (4 for audio recording + 2 for talkback)
- 15. External DC power supply for MMP1

1. Yamaha MMP1

http://www.yamahaproaudio.com/global/en/products/processors/mmp1/

In this example, MMP1 works as a signal processor, with which mic input signals are processed by using Channel Strip function and sent to the DAW via Dante, and also as a matrix mixer, the playback signals from DAW is routed to each speaker and headphone, either from local analog/AES/EBU outputs or from Nuage I/O (explained later) via Dante. Also, as a monitor controller, MMP1 switches between monitor sources, adjust the volumes and manages cue and talkback.



[Yamaha MMP1]

2. Dante Audio Interface(Yamaha NUAGE I/O)

http://www.yamahaproaudio.com/global/en/products/daw_systems/nuage/lineup.jsp

Nuage I/O expands the number of analog/ digital input and output channels. There are three product lineup for Nuage I/O, and they are A16 (analog 16 in/ 16 out), D16 (digital 16 in/ 16 out) and A8D8 (analog 8 in/ 8 out + digital 8 in/ 8 out) that you can choose from depending on the channel count requirement. This example will use an A16 as required.



[Yamaha NUAGE I/O]

3. Dante PCIe card (Yamaha Dante Accelerator)

http://www.yamahaproaudio.com/gobal/en/products/daw_systems/nuage/lineup.jsp

Dante Accelerator (product name is AIC128-D) is a PCIe card which handles the Dante audio data on a hardware basis, with up to 128 in/ 128 out channel capacity (@96kHz).



[Yamaha Dante Accelerator]

4. Monitor speakers (Yamaha HS powered speakers, 5.1ch surround + 2x stereo pair) http://www.yamahaproaudio.com/japan/ja/products/speakers/hsseries/

This example uses a 5.1 channel speaker set as well as large/small stereo speaker pair in the control room, while we use another 5.1 speaker set in the preview room.



[Yamaha HS Series Powered Speakers]

5. 8-channel mic preamp (Yamaha MLA8) http://www.yamahaproaudio.com/global/en/products/interfaces/mla8/

Since MMP1 does not have built-in mic preamp, you will need to have a mic preamp when handling microphone signals (including talkback mic). This example uses Yamaha MLA8, an 8-channel mic preamp).



[Yamaha MLA8]

6. Yamaha SWP1 (network switch)

http://www.yamahaproaudio.com/global/en/products/interfaces/swp1/index.jsp

This example requires at least one level-two (L2) switch for Dante audio network, and we will use Yamaha SWP1 optimized for Dante.





7. Cough box

One cough box mutes only during pressing the COUGH button, another has volume fader or slider, the others have built-in microphone for Return Talkback (RTB). Connect the cough box to MMP1 via GPI connectors and configure MMP1 so the following control can be done remotely.

- Turn Cough Mute on/off
- Turn RTB (Return Talk Back) on/off
- Display Cough mute on/off status



[Cough box (image courtesy of ICONIC Co., LTD.)]

8. Headphone amp

With MMP1, you can flexibly assign any analog, digital or Dante channel for headphone output. We will substitute headphone amps for Cue boxes, because each Cue mix is created on the DAW and each performer simply hears their stereo Cue mix while they are performing.



[Headphone amp (image courtesy of Rupert Neve Designs)]

9. VU Meter

6 or more metering channels will be needed for monitoring 5.1 channels.



[VU Meter (image courtesy of Current, Inc.)]

10. Main Computer (Computer for DAW)



[Workstation for DAW (image courtesy of HP]

For running a DAW software, prepare a Windows PC or a Mac. If you are using a Mac or a Windows PC without PCIe slots, and would like to use Dante Accelerator card, you may need to have a PCI-Thunderbolt chassis

11. Sub Computer (computer for system configurations)

Prepare another computer for configuring the system by using MMP1 Editor, Dante Controller (explained later) and so on. One computer (as described in 10.) can handle these configurations, however, if you are concerned about the performance of DAW, use a separate computer.



[Laptop PC (image courtesy of Apple Inc.)]

12. Apple iPad

Use an iPad for MMP1 Controller. For connecting to MMP1, you can choose either wireless connection by using a Wi-Fi access point or wired connection by using LAN cable. A Wi-Fi router can be used, but if that is the case, use the router in the Bridge mode (instead of Router mode) which disables the routing functions. For wired connection, some adaptors will be required to connect iPad and the network switch.

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[Apple iPad and adaptors (images courtesy of Apple Inc.)]

13. Wifi Access Point (for wireless connection)

A Wifi access point will be required for connecting iPad and MMP1 wirelessly. In this example, we will use Apple AirMac Extreme (for compatibility reasons) in Bridge mode. Connect the access point to the network switch.



[Wifi Access Point (image courtesy of Apple Inc.)]

14. Microphones

In this example, we will use 4 condenser microphones for recording narrations, and 2 more microphones for talkback. Since MMP1 does not have mic preamp, use mic preamps for microphones and other mic-level devices.



[Microphones (Images courtesy of Neumann Company and Current, Inc.)]

15. External DC Power Supply for MMP1

In case of a power problem for built-in AC power supply, an external AC adapter to DC12V as the backup power supply. In this example, we will use IDX's IA-60A which we have tested for this purpose. MMP1 has [MAIN] and [BACKUP] power buttons on the front panel, and they can be independently switched on/off.



[IDX IA-60a]

4. System Installations

4-1. Installing MMP1 & Nuage I/O units

First, connect MMP1, Nuage I/O and Dante Accelerator to the network switch.

UNIT ID Configuration

In case of using more than one MMP1 or Nuage I/O unit, assign a unique ID number to each unit from 1 - 8. For assigning UNIT ID, simply rotate the rotary switch on the rear panel.



[UNIT ID on MMP1]



[UNIT ID on Nuage I/O]

Connecting LAN cables

For most LAN connections, use CAT5e or CAT6 cables. For connecting Dante Accelerator to the LAN switch, it is recommended to use CAT7 STP (Shielded Twisted-Pair) cables.

For connecting multiple MMP1/Nuage I/O units and the switch, there are 3 ways to do so (Refer to the manual for how to choose each mode). Depending on the requirement, choose from the following:

- 1. Redundant mode (Primary port only)
- 2. Redundant mode (Primary/Secondary ports)
- 3. Daisy chain mode

1. Redundant mode (Primary port only)



[Connect I/O devices and switch (Primary port only)]

2. Redundant mode (Primary/Secondary connections)



[Connect I/O devices and switch (Primary/Secondary ports)]

3. Daisy Chain mode



[Connect I/O devices and switch (daisy-chain mode)]

Applying external DC power unit

When connecting a backup power supply to MMP1, connect it to "BACK DC INPUT" on the back side of the unit.



[Redundant DC Power Unit]

External power supply for MMP1 specifications

- DC output voltage: 12V
- DC output wattage: 45W
- DC output connector: 4P XLR connector (XLR-4-32)



| Signal | N.O. | GND | +12V |
|--------|------|-----|------|
| Pin | 2, 3 | 1 | 4 |

[Pin assignment of external power supply for MMP1]

4-2. Connecting iPad

Next, connect iPad to the network. There are 2 ways to connect them. One is done by using a Wi-Fi access point, and the other is by using LAN cables.

This time, we will use the Wifi connection. For doing so, first connect a LAN port (not the WAN port at the bottom) of the access point to the switch.



[Wifi Access Point LAN port]

For connecting iPad to the switch wired, there will be 2 adaptors needed. One is Apple Lightning USB 3 Camera Adaptor, and the other is Apple USB Ethernet Adaptor. Connect as shown in the picture below (connect lightning cable to the right connector of the adaptor for supplying power to the adaptor)



[Lightning-Ethernet Connection]

4-3. Connecting audio cables

This example requires the following audio cables:

- 1. A D-sub cable (D-sub 25pin Male D-sub 25pin Male)
- 2. 3x Breakout cables (D-sub 25pin Male 8x XLR Male)
- 3. An AES/EBU cable (D-sub 25pin Male D-sub 25pin Male)
- 4. 26x XLR cables (6 for microphones, 10 for speakers, 6 for Cues, 2 for Studio Speakers and 2 for headphone amp)
- 1. For connecting MLA8 outputs and MMP1 analog inputs, use a 25-pin D-sub cable.



[D-sub 25pin cable (Male-Male)

2. For MMP1 analog outputs and Nuage I/O inputs/outputs, use a breakout cable with a D-sub 25pin Male connector and 8 XLR connectors.



[D-sub-XLR Breakout Cable]

Connect each analog input and output device by using breakout cables. For connecting microphones and other mic-level devices, use MLA8 or mic preamp.

3. Connect AES/EBU output 1-8 of MMP1 to the VU meter by using D-sub 25pin cable



[AES/EBU Digital Cable (D-sub 25pin)]



[CSP258 Rear Panel (image)]

Please note that the pin assignment of MMP1 AES/EBU connector and the BALANCED I/O connector of CSP258 is different so refer to the following chart and prepare a custom cable.

| Pin # | MMP1 | CSP258 |
|-------|------------|-------------|
| 1 | IN 1/2 + | IN 1/2 + |
| 2 | IN 3/4 + | IN 1/2 GND |
| 3 | IN 5/6 + | IN 3/4 - |
| 4 | IN 7/8 + | IN 5/6 + |
| 5 | OUT 1/2 + | IN 5/6 GND |
| 6 | OUT 3/4 + | IN 7/8 - |
| 7 | OUT 5/6 + | OUT 1/2 + |
| 8 | OUT 7/8 + | OUT 1/2 GND |
| 9 | N.O. | OUT 3/4 - |
| 10 | GND | OUT 5/6 + |
| 11 | N.O. | OUT 5/6 GND |
| 12 | GND | OUT 7/8 - |
| 13 | GND | N.O. |
| 14 | IN 1/2 – | IN 1/2 _ |
| 15 | IN 3/4 - | IN 3/4 + |
| 16 | IN 5/6 - | A3/4 GND |
| 17 | IN 7/8 - | IN 5/6 - |
| 18 | OUT 9/10 - | IN 7/8+ |
| 19 | OUT 11/12 | IN 7/8 GND |
| 20 | OUT 13/14 | OUT 1/2 - |
| 21 | OUT 15/16 | OUT 3/4 + |
| 22 | GND | OUT 3/4 GND |
| 23 | GND | OUT 5/6 - |
| 24 | GND | OUT 7/8 + |
| 25 | GND | OUT 7/8 GND |

[AES/EBU Connector Pin Assignments]

4. Connect each stereo cue output pair as well as the headphone outputs for Control Room to headphone amp analog inputs.



[Connecting Headphone Amp]

Connecting Cough box

Cough box and MMP1 are connected via GPI connectors.



[Connect cough box and MMP1 via GPI]

REFERENCE: This connection example requires custom cables for connecting MMP1 and the cough main unit AB-1B. Below is a diagram of the pin assignment for each connector.



[MMP1 GPI IN connector and AB-1B CONTROL connector]



[MMP1 GPI OUT connector and AB-1B COMMAND connector]

Go to Settings – Global – GPI window of MMP1 Editor, and assign "Cough Mute–1-High" to GPI I In – 1, and "CH Strip RTB-1-Low" to 2 respectively. For GPI Out – 1, choose "Cough Status-1-Make".

| 80 | MN | 4P1 | | | | | Main | Sub | | Monit Matri |
|--|--------------|-------|--------|------------|-------------|--------------|------|-----------|--------|----------------|
| Sc | ene | Globa | Į I | E | Editor | | | | | |
| | General | | | | O Label | | GPI | | | |
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| GPI In | | | | | GPI C | Dut | | | | |
| | - | | | _ | | | | | | |
| | Function | Pa | ramete | er inigger | | Function | | Parameter | Behavi | O |
| | Cough Mute | | 1 | < High | ≤) <u> </u> | Cough Status | | 1 ~ | Make | × |
| 2 | CH Strip RTB | | 1 | Low | 2 | | ~~ | | Make | |
| 3 | | | | | 3 | | | | Make | |
| 4 | | | | | 4 | | | | Make | |
| 5 | | | | | 5 | | | | Make | |
| 6 | | | | | 6 | | | | Make | |
| 7 | | | | | 7 | | | | Make | |
| 8 | | | | | 8 | | | | Make | |
| 9 | | | | | 9 | | | | Make | |
| 10 | | | | | 10 | | | | Make | ~ |
| 11 | | | | | | | | | | |
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[Settings - Global - GPI]

Next, go to Settings - Editor and check channel 1 in "Show Cough Status".



[Show Cough Status]

And the Editor and the cough box will interact depending on each operation.



| PFL. | PFL | PFL | | PFL | PFL | PFL | |
|-------|-------|-------|-------|-------|-------|-------|-------|
| AFL | AFL | | | | AFL | AFL | |
| MUTE | MUTE | | | | MUTE | | |
| Q | (0) | (c) | (c) | (c) | () | (c) | (c) |
| I ON | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 0.0dB | 0.0dB | 0.0dB | 0.0d8 | 0.0dB | 0.0dB | 0.0dB | 0.0dB |

[When Cough is turned on]





[When Cough is turned off]

Show the RTB status on MMP1 Editor or MMP1 Controller so that that status is also visible on the Control Room side. Go to Settings-User Assignable of MMP1 Editor, and create a button and assign RTB Status to it.

| 8 • | ММ | PI | | - | | Main | I. | Sub | Moni Mati | tor Speake rix Matrix |
|-------|------|--------|---------------|--------|----|--------|-----------|-------|--------------|------------------------------|
| Scene | | Global | | Editor | | | | | | |
| | MISC | | | System | | Monito | or Matrix | | | Speaker Matrix |
| 2 | | | | | | | | Label | Color | Function |
| | | - i | lser Assional | nle | | | 1 | RTB | ~ | RTB Status \sim |
| | 1 | 2 | 3 | 4 | 5 | | 2 | 02 | ~ | × |
| | RTB | 02 | 03 | 04 | 05 | | 3 | 03 | ~ | |
| | | | | | | | 4 | 04 | ~ | |
| | 0 | 1 | 8 | 9 | 10 | | 5 | 05 | ~ | v |

[Create a RTB status button]

Now the status of RTB on both the cough box and MMP1 Editor will interact.



[RTB (Return Talk Back) is ON]



[RTB is OFF]

Note: When "Cough Mute Override" is turned on via GPI or User Assignable button, the operation from the cough box is defeated and the orange icon below will appear on the Editor Channel Strip.

| | | addin in a | | | Allower | All the second | | |
|---|-------------|------------|------|-------|---------|--|------|------|
| | PFL | PFL | | PFL | PFL | PFL | | PFL |
| | AFL | AFL | AFL | AFL | AFL | AFL | AFL | AFL |
| | MUTE | MUTE | MUTE | MUTE | MUTE | MUTE | MUTE | MUTE |
| / | (\hat{c}) | (c) | C | C | C | (c) | (c) | (c) |
| (| • | | - | | | | | |
| | | | | | | | | |
| | T | T | | | | T | | T |
| | 1 | | | | | 313 | | 1 |
| | | | | | | | | |
| | | | | 0.040 | | | | |
| | CH 1 | CH 2 | CH 3 | CH 4 | CH 5 | CH 6 | CH 7 | CH 8 |

[Cough mute is defeated (overwritten)]

5. Installing software, drivers, apps and updating firmware

For the latest software and driver, please refer to the following page: <u>http://www.yamahaproaudio.com/global/en/products/processors/mmp1/downloads.jsp</u>

Listed below are the related program to be installed or updated:

- 1. Install MMP1 Editor
- 2. MMP1 firmware
- 3. Dante Controller
- 4. MMP1 Controller
- 5. Nuage Workgroup Manager (for Nuage I/O)
- 6. Dante Accelerator driver

5-1. Installing MMP1 Editor

MMP1 Editor is the offline editing and online monitoring software for MMP1 compatible with both Windows and Mac OS.

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[MMP1 Editor]

Download and install the latest MMP1 Editor from Yamaha PA website: http://www.yamahaproaudio.com/global/en/products/peripherals/applications/mmp1_editor/ Choose the Win/Mac version of MMP1 Editor.

Overview

INTUITIVE SETUP AND OPE

MMP1 Editor provides all-function access for everything from A setup wizard makes setup fast, easy, and precise.

Download



Click on "I agree to the license agreement and download the software now."

License agreement and software MMP1 Editor V1.0.1 for Mac macOS 10.13-C ATENTION You are only permitted to use this software program pursuant to the term ("Agreement"). It is an agreement between you (as individual or a legal software program(s) downloadable hereunder is/are licensed by Yamaha compliant with the Agreement. Please read this Agreement carefully. Do program(s) signifies your agreement to all the terms and conditions set of download, install, copy, or otherwise use this software program(s).

You also need to download these files.

Installation will begin. When finished downloading, double clock on the downloaded file and the file will be extracted.



[MMP1 Editor Installer]

Double click on MMP1 Editor V1.0.0.pkg and the installation will begin.



Click on "Continue".



Click on "Continue".



Click on "Agree" to accept the software license agreement.

| 000 | | 🥪 Instali MMP1 Ecitor | | | | | | | | |
|---|---|---|--|---|---|--|--|--|--|--|
| Inti Lic De Insi | To continue ins the software lic Click Agree to c quit the Installer Read License | talling the sof cense agreeme ontinue or click | tware you must a ent. Disagree to cano | agree to the terms o cel the installation and Disagree Ag | f J TBE TD | | | | | |
| Summ | ary | CORPORATION BY DOWNLOAD THIE SOFTWAR THIS LICENSE. INSTAIL, COPY YOU HAVE DOW AGREE TO THE 1. GRANT OF LI Yamaha herzby g ("SOFTWARE") a encompass cny u SOFTWARE") s on the second second second SOFTWARE is on by relevant copy | ("YAMAHA"). ING, INSTALLING, (E, YOU ARE ACREE! IF YOU DO NCT AG. DOWRLOAD, OR O' NLOADED OR INST TERMS, PROMPTLY CENSE AND COPYR rarts you the right to companying this Agn pdates to the accompanying this Agn pdates to the accompanying the agn randa you and an agn) ight laws and all appl | CCPYING, OR OTHERWI ING TO BE BOUND BY T REE WITH THE TERMS, THERWISE USE THIS SO FALLED THE SOFTWARE I DELETE THE SOFTWAI IGHT use the software program reement. The term SOFTW anying software and data. or Yamahac licensor(s), an licable treaty provisions. W | SE USING HE TERMB OF DO NOT PTWARE. IF CAND DO NOT RE. (a) and data (ARE shall The d is protected thile you are | | | | | |
| | | Print | Save | Go Back | Continue | | | | | |

Click on "Install".



Type the user name and password, and then click on "Install Software".

| | ., |
|----------------|----------------------|
| Enter your pas | sword to allow this. |
| User Name: | Yamaha |
| Password: | |
Installation will finish automatically. Click on "Close" to close the installer.



MMP1 Editor is now installed in the Application folder.



5-2. Updating MMP1 Firmware

Latest firmware for MMP1 will be downloadable from the link above (Note, as of April 2018, there is no downloadable firmware available on the website). The firmware update can be performed from MMP1 Editor. First, make MMP1 and MMP1 Editor online, and go to Information page of MMP1 Editor.



[MMP1 Editor - Information]

Check the version number in Version field, and if needed, click on "Update".

| Version | 1.01rc1 | |
|--------------------|--------------|--------|
| | | Update |
| Connect Informatic | n Editor : 1 | |
| Error Information | | |

File dialog will open to choose the firmware, so click on the downloaded firmware, and click on "Open".



Then the firmware update will begin automatically. Please do not turn of the power of the equipment until the update is finished, to avoid any accidental failure of the update process or possible damage to the equipment.

5-3. Installing Dante Controller

Dante Controller can be downloaded from Audinate website: <u>https://www.audinate.com/products/software/dante-controller?lang=en</u> (Registration required).

Choose your OS in "Choose your operating system:"



Dante Controller is a free software application that enables you to route audio and configure devices on a Dante network. With automatic device discovery, one-click signal routing and user-editable device and channel labels, setting up a Dante network couldn't be easier. See the overview for more detail on Dante audio networking.

Technical note: Dante Controller is supported on macOS Sierra v10.12 - click for other important details

Dante Controller is much more than just a configuration and routing matrix. Dante Controller provides essential device status information and powerful real-time network monitoring, including device-level latency and clock stability stats, multicast bandwidth usage, and customized event logging, enabling you to quickly identify and resolve any potential network issues. You can also quickly and easily backup, restore, move, and reuse Dante network configurations using Presets, and edit Dante routing configurations offline.

Dante Controller is available for Windows and Mac OS X.

Features

- · View all Dante-enabled audio devices and their channels on the network
- · View and edit device clock and network settings
- Route audio between devices, and view the state of existing audio routes
- Rename devices and channels using your own friendly names
- Customize the receive latency (latency before playout)
- Save and reapply audio routing presets
- · Edit presets offline, and apply as configurations for new network deployments
- Change sample rates and clock settings
- View multicast bandwidth across the network
- View transmit and receive bandwidth for each device
- View device performance information, including latency stats, clock stability stats and packet errors

macOS 10.13

Lock and unlock devices



When any OS is selected, appropriate version of Dante Controller will be shown. Click on the button and download the installer (this time, Mac OSX10.13 will be installed)

Choose your operating system:

\$

| Dante | e Controller v | 4.1.0.5 (macOS) | |
|---|-------------------------------|--|--------|
| Carto Contralia-1 | ature filmed | | × |
| | A CO 🕀 | Pastar Ox8 F0-Out | 6 |
| [1000-0 | ENTY Decription Contration in | foot field from | |
| Chee All B Deversion & H Compto Law Compto Law | @Donte" | And a second sec | Imples |
| | Ner kasten | | |

Dante is easy to integrate, easy to install, and easy to use. Dante integrates media and control for your entire AV system over a single IP network. Dante performs best, and sounds even better.

Download

Choose your operating system:

Windows 10



You will be asked if you have an account and. If so, click on "I have an account" and if not, click on "I need to create an account" and have one with Audinate.

TUESUAY, NOVETIDET 21, 2011



Type your email address or username and password, and click on "Log in".

| Create new account | Log in Request ne | w password | |
|------------------------|-------------------|------------|--|
| E-mail or username | * | | |
| john_yamaha@yamaha.co | n | | |
| Enter your e-mail addr | ess or username. | | |
| Password * | | | |
| | | | |

If you are successfully logged in, the installer can be downloaded. Click on the fine name and download the installer.

| Dante Domain Manager. | Version: |
|--|--|
| | 4.0.6.5 |
| | Release Date: |
| | Tuesday, November 21, 2017 |
| | Download Eile: |
| /er, log in as a DDM user, and Itton to open the Server | DanteController-4.0.6.5_osx.dmg |
| own menu to select domains for | Interface Interface 10 Inter Interface 10 Interface Interface 10 Interface Interface 10 Interface Interface 10 Interface Interface |
| ork Status tabs are now | |
| displays the Domain Status for | |
| omains) are displayed in green | Kin understanden ² s |

When the download is finished, double click on the file and then double click on "DanteController.pkg"

| | Dante Controller | |
|---------------------|--|--|
| × | 2項目 | |
| | 1 million and the second secon | |
| DanteController.pkg | Uninstall Dante Controller | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

Click on "Continue".



Similarly, click on "Continue".



Click on "Agree".



Click on "Install" and the installation will begin automatically.



Type user name, password and click on "Install Software".

| Installer is t | rying to install new software. |
|----------------|--------------------------------|
| Enter your pas | sword to allow this. |
| User Name: | Yamaha |
| Password: | ••••• |

When completed, click on "Close" to finish the installer.



Click on "Move to Trash"



5-4. Installing MMP1 Controller

Since MM1 Controller is an iPad app, please download it from Apple's App Store



[Apple App Store]

Type "mmp1" in the search box and it will auto-complete as "mmp1 controller", so tap on it.



[Search box]

Tap on "GET" button, and then "INSTALL" button to complete the installation.



[GET button]



[INSTALL button]

5-5. Installing Nuage Workgroup Manager

Nuage Workgroup Manager is a tool contained in a software for Nuage called "TOOLS for NUAGE". TOOLS for NUAGE can be downloaded from the following website: http://www.yamahaproaudio.com/global/en/downloads/firmware_software/nuage_utilities/

Click on "TOOLS for NUAGE V2.0.0 for Mac macOS 10.13-OSX10.10

NUAGE

(

| Name | Description | OS | Last Update |
|---|-------------|-----|--------------|
| TOOLS for NUAGE V2.0.0 for Win 10/8.1/7 (64-bit) | | Win | Apr. 9, 2018 |
| TOOLS for NUAGE V2.0.0 for Mac macOS 10.13-OS X 10.10 | | Mac | Apr. 9, 2018 |
| Nuage Master Firmware V2.00 | | | Apr. 9, 2018 |
| Nuage Fader Firmware V2.00 | | - | Apr. 9, 2018 |

Click on "I agree to the license agreement and download the software now."

License agreement and software

TOOLS for NUAGE V2.0.0 for Mac macOS 10.13-OS X 10.10

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Lagree to the license agreement and download the software now.

→ I don't agree.

You also need to

Ungrade Instruction

You are recommended

Double click in the downloaded file, and then double click "TOOLS for NUAGE V2.0.0.pkg"



Click on "Continue".



Click on "Continue"



Click on "Agree"

| 00 | | 😺 Install | Dante Infrastruc | lure | | |
|--------------------------|------------------------------------|---|---|---|---|--|
| | To continue ins the software li | talling the sof | tware you must ent. | agree to the te | erms of | |
| Inti | Click Agree to g | ontinue or click | Disagree to car | cel the installati | on and | |
| • Lic | quit the Installe | r. | 0 | | | |
| o De | | | | | | S |
| Ins | Read License | | | Disagree | Agree | |
| Ins | 2 | | | | | IS. |
| Summ | nary | AGREEMENT, D AGREEMENT, D AGREEMENT IS PURCHASE OF OR MISCELLAN AGREEMENT GG INCONSISTENT INCORPORATE The Software is of function only with AUDINATEs othe sold, to you, the I | NO-USERY DO NOT O NOT INSTALL OF ENTERED INTO IN LICENSOR PRODU EOUS TERMS AND DVERNING SUCH T WITH THE TERMS D HEREIN BY REFE reated and licensed AUDINATES produc r DANTE** enabled End-User. If the Enc | A USE THE SOFTW I CONJUNCTION W ICTS AND AS SUCH CONDITIONS OF T TRANSACTIONS W OF THIS AGREEM RENCE. | ARE. THIS ARE. THIS ITH THE EN I THE GENE THE PURCH HICH ARE N ENT SHALL as such is d ementations ware is licens the Software | HIS ID-USERS IFAL AND/ ASE IOT BE esigned to of sed, not by written |
| | | Print | Save | Go B | ack | Continue |

Check only "NUAGE Workgroup Manager" and click on "Continue".

| e e 0. | 😓 Install TOOLS for NUAGE | | Ì |
|--------------------|----------------------------------|------------|-----------|
| | Custom Install on "Macintosh HD" | | |
| | Package Name | Action | Size |
| Introduction | 🗹 NUAGE Workgroup Manager | Upgrade | 29.5 MB |
| License | NUAGE Extension | Skip | 72.3 MB |
| Destination Select | NUAGE PT Bridge | Skip | 3 MB |
| Installation Type | | | |
| Installation | | | |
| Summary | | | |
| | | | |
| | | | |
| | Space Required: 29.5 MB | Remaining: | 149.73 GB |
| | | | |
| | | | |
| | | | |
| | | Go Back | Continue |
| | | Job David | Continue |

Click on "Install".



Type user name and password, and then click on "Install Software".

| Installer is t | rying to install new software. |
|----------------|--------------------------------|
| Enter your pas | sword to allow this. |
| User Name: | Yamaha |
| Password: | •••• |

TOOLS for NUAGE is now installed. Click "Close" and go to the next installation, which is for Dante Infrastructure.

| | 🥪 Install TOOLS for NUAGE |
|--|---|
| IntroductionLicenseDestination Select | The installation was completed successfully. At the end of this installation, and then install the "Dante Infrastructure". |
| Installation Type Installation Summary | |
| | Go Back Close |

Click on "Continue".

| | 🥪 Install Dante Infrastructure | |
|---|---|---|
| Introduction License Destination Select Installation Type Installation Summary | Install Dante Infrastructure Welcome to the Dante Infrastructure Installer You will be guided through the steps necessary to install this software. | |
| | Go Back Continue | > |

Click on "Continue".

| | Software License Agreement | | | | | | |
|--------------------|---|--|--|--|--|--|--|
| Introduction | English | | | | | | |
| License | END USER LICENSE AGREEMENT | | | | | | |
| Destination Select | NOTICE: CAREFULLY READ THE FOLLOWING LEGAL ACREEMENT WHICH CONTAI RIGHTS AND RESTRICTIONS ASSOCIATED WITH YOUR USE OF THE AUDINATE® | | | | | | |
| Installation Type | SOFTWARE (THE "SOFTWARE") AND DOCUMENTATION PROVIDED TO | | | | | | |
| Installation | THE SOFTWARE CONSTITUTES YOUR ACCEPTANCE OF THESE TERMS. | | | | | | |
| Summary | IF YOU (THE "END-USER") DO NOT AGREE TO THE TERMS OF THIS AGREEMENT, DO NOT INSTALL OR USE THE SOFTWARE. THIS AGREEMENT IS ENTERED INTO IN CONJUNCTION WITH THE END-USERS PURCHASE OF LICENSOR PRODUCTS AND AS SUCH THE GENERAL AND/ OR MISCELLANEOUS TERMS AND CONDITIONS OF THE PURCHASE AGREEMENT GOVERNING SUCH TRANSACTIONS WHICH ARE NOT INCONSISTENT WITH THE TERMS OF THIS AGREEMENT SHALL BE INCORPORATED HEREIN BY REFERENCE. The Software is created and licensed by AUDINATE, and as such is designed to function only with AUDINATEs products, or licensed implementations of AUDINATEs actor DATE™ analysis and as other the Software is licensed | | | | | | |

Click on "Agree" to accept the software license agreement.



Click on "Install".



Type user name, password, and click on "Install Software".

| Installer | is trying to install new software. |
|------------|------------------------------------|
| Enter your | password to allow this. |
| User Nan | ne: Yamaha |
| Passwo | rd: ••••• |

Installation of Dante Infrastructure is now finished. Click on "Close" and finish the installer.

| | 😺 Install Dante Infrastructure |
|---|---|
| Introduction License Destination Select Installation Type Installation Summary | The installation was completed successfully. The installation was successful . The software was installed. |
| | Go Back Close |

5-6. Installing Dante Accelerator driver

Dante accelerator driver can be downloaded from the following website: http://www.yamahaproaudio.com/global/en/products/interfaces/dante_accelerator/download s.jsp



Click on "Dante Accelerator Driver V2.5.2 for Mac OS 10.13-10.9".

| Name | Description | OS | Last Update |
|---|-------------|-----|---------------|
| Dante Accelerator Driver V2.0.4 for Win 10/8.1/7 (64-bit) | | Win | Sep. 21, 2017 |
| Dante Accelerator Driver V2.5.2 for Mac OS 10.13-10.9 | | Mac | Dec. 15, 2016 |
| Dante Accelerator Firmware V3.0.0 | | 120 | Sep. 21, 2017 |

Click on "I agree to the license agreement and download the software now."

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Dante Accelerator Driver V2.5.2 for Mac OS 10.13-10.9

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I agree to the license agreement and download the software now.

→ I don't agree.

Double click the downloaded file, and then double click "yaic128-d_2.5.2.pkg".



Click on "Continue".

| | Welcome to the Yamaha AIC128-D Installer |
|---|--|
| Introduction License Destination Select Installation Type Installation Summary | You will be guided through the steps necessary to install this software. |
| | Go Baci Continue |

Click on "Continue".



Click on "Agree".

| 20 | 00 | | 🥪 Install Yamaha | AIC128-D | |
|----|------|-------------------------------------|---|--|--|
| | | To continue ins the software lic | talling the software ye cense agreement. | ou must agree to the te | rms of |
| 0 | Inti | Click Aaree to c | ontinue or click Disagre | e to cancel the installatio | on and SAND |
| | Lic | quit the Installer | | | UTES |
| | De | | | | MS OF ensed |
| | Ins | Dead Lineses | | Diseases | ensed t sold, |
| | Ins | Read License | | Disagree | Agree vithin vill be |
| | Summ | hary | THE END-USER REJECTS THE SO PAID BY THE END-USER, IF ANY. Subject to the terms of this Agree | FTWARE SHALL DE A REFUND OF TH | IE SOFTWARE LICENSE FEE |
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| | | | transferable, limited license to (f) computer as a single end-user, (purposes, and (iii) use the docume of the Software. | install and use the Software in object ii) make one (1) copy of the Software ntation provided with the Software onl | i-User a non-exclusive, non- t code form only on a single re for backup and archival y in conjunction with the use |
| | | | transferable, limited license to (1) computer as a single end-user, (purposes, and (iii) use the docume of the Software. The End-User shall not modify, rer decompile, disassemble, or create any other software. The End User intranet, extranet or web site. T available such trade secrets or cop written consent of Audinate. The I User in this Agreement to any thin | Install and use the Software in object ii) make one (1) copy of the Software natation provided with the Software onl it, lease, assign, copy, distribute, modifi- derivative works based on the Software may not upload or post the Software or the End User agrees not no disclose, wrighted material in any form to any of the inarty. The Ad-User shall not copy and party. The End-User shall not copy and party. The End-User shall not copy and party. The Software or the Software or the Software or the software of the Software or the Software or the Software or the software of the Software or the Software or the Software or the software of the Software or the Software or the Software or the Software or the software of the Software or th | -user a non-excusive, non- -user a non-excusive, non- icode form only on a single re for backup and archival y in conjunction with the use a, translate, reverse engineer, e, or merge the software into on a network, bulletin board, provide, or otherwise make hird party without the prior ise rights granted to the End- y of the electronic materials |

Click on "Install".



Click on "Continue Installation" (as installing this driver requires rebooting the computer after the installation).

| 9 🧑 🔿 🚬 | 🥪 Install Yamaha AIC128-D | |
|---------------------------------------|--|---|
| Introductic License | When this software finishes installing, you must restart your computer. Are you sure you want to install the software now? Cancel Continue Installation ter will be | |
| Destinatio | | |
| Installation Type | | |
| Summary | | |
| Summary | | |
| | | |
| | | |
| | | |
| | | |
| | Change Install Location | |
| | | |
| | Go Back Instal | I |

Type user name, password and click on "Install software".

| Installer is t | rying to install new software. |
|----------------|--------------------------------|
| Enter your pas | sword to allow this. |
| User Name: | Yamaha |
| Password: | ••••• |

Click "Restart" and the installation will be completed. After rebooting the computer, Dante Accelerator will become available.

| | 🥪 Install Yamaha AIC128-D 🔒 |
|--|---|
| Introduction License Destination Select Installation Type | The installation was completed successfully. |
| Installation Summary | The installation was successful. The software was installed. |
| | Click Restart to finish installing the software. |
| | Go Back Restart |

6. Configuring and running each program

6-1. Configuring Dante Patching

Audio signals between MMP1, Nuage I/O and PC are routed through Dante audio network. Configuration of Dante audio network can be done by using the Dante Controller.

Below is the Dante patching required for this example:

1. Patch Dante output 1-12 of MMP1 to Dante input channel 1-12 of Nuage I/O (Large + Small + Studio Speakers + 3x Cue).



[Patch MMP1 to Nuage I/O]

Note: If the Dante devices are either not correctly displayed on the Dante Controller or no audio is heard even if patches are correctly made, check if the IP address of each device is correctly configured (private/link local address, subnet mask etc.) and also the sampling frequency setting is the same on each device. The initial device name of each Dante device can be renamed. Double click on the device name on the grid or choose "Device View" in the Device menu, and Device View window will open. Go to "Device Config" page and you can change the device name.

| | ± 6 | | Y002- | a-MMP1 📴 | |
|-----------|-----------------|----------|---------------|----------------|--------------|
| Receive 1 | Fransmit Status | l atency | Device Config | Network Config | AFS67 Config |
| Receive | Transmit Status | Latency | Device Config | Network Config | AFS67 Contig |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| - Rename | Device | | | | |
| rRename | Device | | | | |

[Dante Controller – Rename Device]

2. Patch Dante output 1-24 of Dante Accelerator to Dante input 1-24 of MMP1 (3x 5.1ch stem playback from DAW + 3x stereo Cue)



[Patch Dante Accelerator to MMP1]

3. Patch Dante output 13-16 of MMP1 to Dante Input 1-4 of Dante Accelerator (microphone inputs to record onto DAW)

| Dante Filter Transmitters | mitters | nteAccelerator + | 1-a-Nuage-IO+ | /002-a-MMP1 | Large L | Large R | Small L- | Small R | dio Speaker L | dio Speaker R | Cue 1 L- | Cue 1 R | Cue 2 L- | Cue 2 R | Cue 3 L | Cue 3 R | /icrophone 1 | /icrophone 2 | Vicrophone 3 | /icrophone 4 |
|------------------------------|----------|------------------|---------------|-------------|---------|---------|----------|---------|---------------|---------------|----------|---------|----------|---------|---------|---------|--------------|--------------|--------------|--------------|
| Filter Receivers | te Trans | Da | Y00 | ĺ | | | | | Stur | Stuc | | | | | | | ~ | ~ | e . | ~ |
| ⊞ — Dante Receivers | ⊞ ∐ Dan | | | | | | | | | | | | | | | | | | | |
| DanteAccelerator | | + | + | - | | | | | | | | | | | | | | | | |
| -Microphone 1 | 0 | | | | | | | | | | | | | | | | Ø | | | |
| Microphone 2 | | | | | | | | | | | | | | | | | | 0 | | |
| Microphone 3 | O | | | | | | | | | | | | | | | | | 1 | 4 | |
| Microphone 4 | 0 | | | | | | | | | | | | | | | | | | . 6 | 1 |

[Patch MMP1 to Dante Accelerator]

6-2. Configuring MMP1 Editor

Next, run and configure MMP1 Editor offline by using Setup Wizard. Since Setup Wizard guides you though a basic setup procedure with mouse clicking and keyboard typing, you may need to make additional settings manually after Setup Wizard is completed. Below is how to do so:

First, run MMP1 Editor offline, click on the file icon and select "New"



[MMP Editor - New]

The following confirmation dialog will show up so click on "YES" (If any change has been made before selecting "New", "Do you want to save?" will be asked).

| 00 | | | |
|----|--------------------|-----------|---------|
| 9 | Do you want to use | the Setur | Wizard? |
| 0 | Cancel | No | Yes |
| | | | |

[Setup Wizard - confirmation]

Click on "Next >"

| • | MMP1 Setup Wizard | 1 |
|-------------------|--------------------------------------|---------------|
| MMP1 Setup | Wizard | |
| This Setup Wizar | d is designed to help you setup your | |
| MMP1 for the fol | lowing speaker configurations : | |
| Stereo / 5.1 / 7. | / 7.1.2 / 7.1.4 / 9.1.2. | |
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[MMP1 Setup Wizard]

Choose "5.1" as Speaker Format, and click on "Next >"



[Setup Wizard – Sample Rate/Speaker Format Settings]

"5.1" or other multi-channel formats can be selected only when using Setup Wizard. If chosen in Setup Wizard, speaker-shaped mute buttons are available in the Controller View of MMP1 Controller.

Even if "L/C/R/Ls/Rs/LFE" or "L/R/Ls/Rs/C/LFE" as the surround channel order is selected, internal order or the order shown in the Speaker Matrix is always in the order of "L/R/C/LFE/Ls/Rs" and only the order of input/output patching will be changed.

Turn "Bass Management" on and click on "Next >".

| • 0 | | MMP1 Setup Wizard | |
|-----|----------------|---|---------------|
| | | | |
| | LFE Channel | / Bass Management Settings | |
| | LFE Filter | | |
| | O Off | On | |
| | Select if low- | pass filter is desired for the LFE channel. | |
| | If activated, | the low-pass filter is applied at 120 Hz. | |
| | LFE Trim | | |
| | O OdB | ○ +10dB | |
| | Select the tr | im level for the LFE channel. | |
| | Select OdB if | the level is adjusted with power amplifier. | |
| | Pare Managaman | | |
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| | | | < Back Next > |
| | | | |

[Setup Wizard – LFE Channel / Bass Management Settings]

Next, configure the monitor sources to monitor on MMP1 (these are the ones to be shown as the monitor source on MMP1 Editor or MMP1 Controller. Labels can be multi-line) In this example, there are three 5.1 "stems" as the monitor source and those are Dialog, Music and Sound Effects.

Choose the first Dante channel of each source and type the label. Click "Next >".

| Moni | tor Sourc | e Sett | ings | | | | | |
|---|---|--|---|--|---|-----------------------------|----------|--|
| Setting | the Monitor | Source | selection butt | ons: | | | | |
| - Monit | tor Source fo | rmat | | 544 | | | | |
| (numbe | r of remainin | ng chann | els available: | Input | 14/Ou | tput 2 | 6) | |
| - Monit remai maxir - Sourc (maxi | or Source in ning channel num number e name to be mum 17 char | out chan s will be of chann displaye acters) | nel (select the assigned in in els in the forr ed on Monitor | e starti creasir nat cho Source | ng input ig order isen) select b | channe up to th utton | l, Ie | |
| | Format | | Source | | | Lab | el | |
| 1 | 5.1 | ~ | Dante In Of | i v | Dialog | | | |
| 2 | 5.1 | ~ | Dante In 07 | 7 ~ | Music | | | |
| 3 | 5.1 | ~ | Dante In 13 | 5 /~ | Sound E | ffects | | |
| 4 | | ~ | | ~ | | | | |
| 5 | | ~ | | v | | | | |
| 6 | | ~ | | v | 3 | | | |
| / | | | | | | | | |
| The | | | | | | | | |
| 1 ne Mc | onitor source | select o | autton will be | aispiay | ed as toi | lows. | | |
| Dial | og M | usic | Sound Effects | | | | | |
| 5 | (| 5 | 7 | 8 | 3 | | | |
| | | | | | | | | |

[Setup Wizard - Monitor Source Settings]

Next, configure the speaker sets and, in this example, assign the 5.1 channel speakers as A, Large stereo as B, and Small stereo as C. Choose the first channel of each speaker set as Destination (Only "A" is in multi-channel format when using Setup Wizard. If multi-channel format is preferred for B,C or D, make additional changes manually after Setup Wizard is completed).

| 00 | | MMP | 1 Setup Wizard |
|----|-----------------------|--------------------|---|
| | | | |
| | Speaker Set Ou | tout Setting | 15 |
| | | | |
| | Select the first outp | out channel to whi | ch each speaker set is to be assigned |
| | increasing order up | to the maximum n | umber of channels in the format chosen) |
| | | | |
| | Speaker Set | Format | Destination |
| [| A | 5.1 | Analog Out 1 |
| | В | Stereo | Dante Out 01 |
| | C | Stereo | Dante Out 03 |
| l | U | stereo | V |
| | | | |
| | | | |
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| | | | < Back Next > |
| | | | |
| | | | |

[Setup Wizard – Speaker Set Output Settings]

In the next page, we will configure the 3 stereo Cue inputs and outputs (those Cue mixes come from DAW, and they are routed through MMP1 to each Cue). Choose "Stereo" as Format, and choose the first Dante channel of each Cue, and then choose the first Dante channels of MMP1 for each Cue as Destination. Click "Next >"

| 0. | MMP1 | Setup Wizard | | |
|-----------------------|----------------------|-----------------------------|---------|----------------|
| | | | | |
| Cue Mix Input | and Output Se | ttings | | |
| cuc i in input | and output se | | | |
| Settings for Cue Mi | х. | | | |
| - Select the speaker | r format | | | |
| - Select the first in | put channel to whicl | h each cue mix is to b | e conr | ected from |
| - Select the first ou | tput channel to whi | ich each Cue Mix is to | be as | signed |
| (select the starting | channel, remaining | channels will be assig | gned ir | n increasing |
| order up to the max | ximum number of chi | annels in the format | choser | ນ |
| (number of remaini | ng channels availabl | e: Input 8 / Outpu | it 20 |) |
| | | | | |
| Cue Mix | Format | Source | | Destination |
| 1 | Stereo | Dante In 19 | ~ | Dante Out 07 V |
| 2 | Stereo | Dante In 21 Dante In 27 | ~ | Dante Out 09 V |
| 3 | Stereo | V Dante in 25 | | Dante Out 11 V |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

[Setup Wizard - Cue Mix Input and Output Settings]

Next, we will configure the talkback microphones. Even though we are using 2 talkback microphones in this example, Setup Wizard allows us to assign only one microphone, so choose the channel for the first talkback and go to next.



[Setup Wizard – Talkback Mic Input Setting]

Now Setup Wizard is being completed. Make sure all the settings are correct and, if so, click on Finish button and close the Setup Wizard. If you look at the Main window of MMP1 Editor, you will see some buttons such as those for speaker select and talkback created on the screen.

| | alian Farmat | | 1 - (D-) | | |
|-----|-------------------|-------------------|------------------------|--|--|
| Spe | Eaker Format | D. I(L/K/C/LFE/ | 5.1(L/R/C/LFE/LS/RS) | | |
| FI | E Trim | OdB | | | |
| Bas | ss Management | On | On | | |
| da | nitor Source | | | | |
| 1 | Dante In 01 - 06 | | Dialog | | |
| 2 | Dante In 07 - 12 | | Music | | |
| 3 | Dante In 13 - 18 | | Sound Effects | | |
| 4 | - | | | | |
| 5 | - | | | | |
| 6 | 1 | | | | |
| 7 | - | | | | |
| 8 | 7 . | | | | |
| Бре | eaker Set | | | | |
| A | Analog Out 1 - 6 | | | | |
| В | Dante Out 01/02 | 1 | | | |
| C | Dante Out 03/04 | - | | | |
| D | - | | | | |
| Tue | Mix Input Channe | el | Cue Mix Output Channel | | |
| 1 | Dante In 19/20 | | Dante Out 07/08 | | |
| 2 | Dante In 21/22 | | Dante Out 09/10 | | |
| 3 | Dante In 23/24 | | Dante Out 11/12 | | |
| 4 | - | | - | | |
| ÷, | - | | <u> </u> | | |
| | | the second second | alog In 5 | | |
| Tal | kback Mic Input C | nannel An | | | |
| al | kback Mic Input C | nannel An | | | |

[Setup Wizard - completed]

From here, we are going to manually make additional settings.
Assign the second talkback microphone

First, we will set up the second talkback microphone. Go to Patch – Input Patch, and choose the channel for the second talkback microphone (in this example, choose "Analog In 6").

| Speake Matrix | er Speaker x Manageme | nt Pate | h | Settings | Info | mation | \ ~~ > |
|--|---|----------|--|---|------|--|---------------|
| Type Monitor Monitor LFE Monitor | Direct Speal Sou 1 L 2 R 3 L 4 R 5 6 | ker Send | Talk 1-1 A 1-2 - 2-1 A 2-2 | back Mic In Source malog In 5 | | Analog In 1 Analog In 2 Analog In 3 Analog In 4 Analog In 5 Analog In 6 Analog In 7 Analog In 8 | |
| | | | | | | | |

[Patch – Input Patch]

In MMP1, there are 2 busses for talkback and those busses can be turned on/off independently. Also, there are 4 areas in Talkback Mic In section that are[1-1],[1-2], [2-1] and [2-2]. This means that 2 talkback microphones can be assigned to each bus ("1-x" and "2-x"). "1-1" and "1-2", and "2-1" and "2-2" are turned on/off simultaneously so if you want to control 2 talkback microphones independently, they should be patched to "1-1" and "2-1".

Configure the Studio Speakers

Next, manually configure the studio speakers. Since any Studio Speaker is not configured, go to Settings – Monitor Matrix and choose "2" for "Studio Speaker 1" so a stereo Studio Speaker output is created.

| Pionicol Source o | . | cue / | · · |
|-------------------|----------|------------------|--|
| Cue Source 1 | 2 ~ | Cue 8 | <u> 0 </u> |
| Cue Source 2 | 2 ~ | Studio Speaker 1 | 2 ~ |
| Cue Source 3 | 2 ~ | Studio Speaker 2 | 0 ~ |
| Cue Source 4 | 0 ~ | Studio Speaker 3 | 0 ~ |
| Cue Source 5 | 0 ~ | Studio Speaker 4 | 0 ~ |
| Cue Source 6 | 0 ~ | Studio Speaker 5 | 0 ~ |
| Cue Source 7 | 0 ~ | Studio Speaker 6 | 0 ~ |
| Cue Source 8 | 0 ~ | Studio Speaker 7 | 0 ~ |
| | | | |

[Settings – Monitor Matrix]

Studio Speaker outputs are used to automatically mute themselves when Cough Mute is turned on. If you do not use this function, you don't need to create Studio Speaker outputs.

Next, go to Patch – Output Patch. Click on Source 5 of Dante Out, mouse over Monitor Matrix Out and choose "STU 1 – L". Similarly, choose "STU 1 – R" for Source 6 (we have patched those channels to Nuage I/O Dante Input channels earlier on the Dante Controller).

| D | ante Out | | |
|---|-----------------|---|------|
| | Source | a | Labe |
| 1 | Speaker Set B 1 | \sim | |
| 2 | Speaker Set B 2 | \sim | |
| 3 | Speaker Set C 1 | \sim | |
| 4 | Speaker Set C 2 | \sim | |
| 5 | STU 1 - L | \sim | |
| 6 | STU 1 - R | \sim | |
| 7 | Cue 1 - L | ~ | |
| 8 | Cue 1 - R | \sim | |
| 0 | Cup 2 1 | 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - 1990 - | |

[Patch - Output Patch]

Assign the headphone outputs

Since Setup Wizard has not configured the headphone monitoring for Control Room, we will assign it manually. Go to Patch – Output Patch and assign "Headphone Out L" and "Headphone Out R" to Analog Source 7 and 8 respectively.

| | Source | a | Label |
|-----------|-----------|----------|-------|
| SPK Out | A - L | \sim | |
| 2 SPK Out | A - R | × 1 | |
| SPK Out | A - C | ~ | |
| 4 SPK Out | A - LFE | × 1 | |
| SPK Out | A - Ls | ~ | |
| SPK Out | A - Rs | ~ | |
| Headpho | one Out L | - V | |
| Headpho | ne Out R | \sim | |

[Patch- Output Patch]

Configure Talkback Destination

Next, we will configure the Talkback Destinations. Talkback Destination is a kind of router for talkback, and you can choose whether or not you route each talkback microphone to each Cue, Studio Speaker and Aux bus. You can program up to 8 destination settings and assign them to User Assignable buttons. This time we will make the following 8 destinations:

Talkback Destinations

- 1. Talkback 1 (Mic 1) to Cue 1
- 2. Talkback 1 (Mic 1) to Cue 2
- 3. Talkback 1 (Mic 1) to Cue 3
- 4. Talkback 1 (Mic 1) to Cue 1/2/3 and Studio Speakers
- 5. Talkback 2 (Mic 2) to Cue 1
- 6. Talkback 2 (Mic 2) to Cue 2
- 7. Talkback 2 (Mic 2) to Cue 3
- 8. Talkback 2 (Mic 2) to Cue 1/2/3 and Studio Speakers

| Destination | 1 | 2 | 3 | ্বা | 5 | | 6 | 7 | 8 | |
|-------------|----------|-------------|------------------|-----|--------|----|--------|---|--------|--|
| Rus | 1 2 | Mic 1 | Mic 2 💟 Mic 2 | | | | | | | |
| Cue 1 | Studio | Speaker 1 🗸 | AUX 01 | | AUX 09 | | AUX 17 | | AUX 25 | |
| Cue 2 | Studio | Speaker 2 | AUX 02 | | AUX 10 | | AUX 18 | | AUX 26 | |
| Cue 3 | Studio | Speaker 3 (| AUX 03 | | AUX 11 | | AUX 19 | | AUX 27 | |
| Cue 4 | i Studio | o Speaker 4 | AUX 04 | | AUX 12 | | AUX 20 | | AUX 28 | |
| Cue 5 | i Studio | 5 Speaker 5 | AUX 05 | | AUX 13 | | AUX 21 | | AUX 29 | |
| Cue 6 | i Studio | Speaker 6 | AUX 06 | | AUX 14 | | AUX 22 | | AUX 30 | |
| Cue 7 | Studie | Speaker 7 | AUX 07 | | AUX 15 | LI | AUX 23 | | | |
| Cue 8 | Studie | o Speaker 8 | AUX 08 | | AUX 16 | | AUX 24 | | | |

[Settings - Talkback Destination]

Once you have set up Talkback Destination, go back to User Assignable and create buttons for those destinations.

Go to Settings – User Assignable of MMP1 Editor.

| 00 | мм | PI | n | 7 | | Main | | Sub | Monit Matr | or Spe ix Ma | aker Itrix | Speake Managem | er rent | Patch | | - | nforma | ntion | () |
|-------|--------|--------|-------------|--------|------|---------|----------------|-------|---------------|-----------------|---------------|-------------------|------------|-------------|---------|----------|--------|----------|----|
| Sceni | • | Global | | Editor | 11 | 40 | 241 | | 60 | | | | | | | | | 200 | |
| | MISC | | | System | | Memitre | Mate is | į. | | Speaker Ma | trix | | Tai | klue k Devi | ination | | | | |
| | | | | | | | | Label | Color | Function | B | arameter | | Label | Color | Function | | arameter | |
| | 1 | | kor Assiona | blo | | | 1 | | ~ | | | | 19 | | | | | | |
| | 1 | 2 | 3 | 14 | 5 | | 2 | 02 | ~ | | 8 | 111 | 20 | | ~ | | | | |
| | 01 | 02 | 03 | 04 | 05 | | 3 | | ~ | | | | 21 | | ~ | | | | |
| | AV8811 | | | 1000 | 3725 | | 4 | | | | | | 22 | | ~ | | | | |
| | • | 7 | 0 | 9 | 10 | | 3 | 05 | U. | | | | 25 | 23 | | | | | |
| | 06 | 07 | 08 | 09 | 10 | | 0 | 05 | | | | | 24 | 24 | | | | | |
| | 11 | 12 | 13 | 14 | 15 | | 7 | | | | | | - | | ~ | | | | |
| | 11 | 12 | 13 | 14 | 15 | | H | | | | | | | | | | | | |
| | 16 / | 17 | 18 | 19 | 20 | | | ~ | | | | | | 20 | | | | | |
| | 16 | 17 | 18 | 19 | 20 | | 9 | 09 | - | | | | 27 | 27 | | | | | |
| | 100 | | | 1550 | 100 | 0.000 | 10 | | ~ | | | | 28 | | ~ | | | | |
| | 21 | 22 | 23 | 24 | 25 | | 11 | | 1 | | | | 20 | | - 25 | | | | |
| | 21 | 22 | 23 | 24 | 25 | | 17 | | ~ | | | | 30 | | ~ | | | | |
| | 26 | 27 | 28 | 29 | 30 | | 15 | | | | | | 51 | | | | | | |
| | 26 | 27 | 28 | 29 | 30 | | 14 | | | | | | 37 | | 1 | | | | |
| | | | | | - | | 15 | | - | | | | 33 | | - 2 | | | | |
| | 51 | 32 | | 34 | 35 | | 10 | | | | | | 31 | | | | | | |
| | -31 | -32 | -33 | - 54 | 35 | | 17 | | | | | | 35 | | | | | | |
| | | | | | | 3 | 10 | 10 | | | | | and a | | - | | | | |
| | | | | | | | and the second | | | | | | | | | | | | |

[Settings – User Assignable]

Click on "01" of Label row, the label of the User Assignable button 01 can be changed. Type "TB1->Cue1", hit Return (Enter) key and that label will appear on the button.

| MISC | _ | | System | | Monitor Matrix | | Speaker Ma | trix | | Ta | kback Des | tination | | User Assigni |
|----------------|----|---------------|----------|----|----------------------|------------|------------|------|---------|----|-------------|------------|----------|--------------|
| _ | | | 0.500 | | Laber 1 TB1-s fue | Loior 1 | Function | 15 | rameter | 19 | Label 19 | Color ~ | Function | Parameter |
| 1 | 2 | User Assignal | ole 1 | 3 | | | | 8 | | 20 | | ~ | | |
| 181 -> Cue1 | 02 | 03 | 04 | 05 | 3 03 | - | | | | 21 | | | | |
| 6 | 7 | 8 | 0 | 10 | 4 04 | ~ | | | | 22 | 22 | | | |

[User Assignable – Label]

Click on the color area and you will see the 16-color palette to choose button color from.

| MISC | 1 | | System |) I C | Monitor Ma | itrix | | Speaker Mat | rix | Ta | ikback Des | tination | | User Assignable |
|----------------|----|---------------|--------|-------|------------|----------|-------|-------------|---------|--------|------------|----------|-----------|-----------------|
| | | | | | | Late | Color | Function | Paramét | | Label | Color | Function/ | Parameter |
| | U | iser Assignab | ole | | | 1 T01 >C | ue1 💙 | - | (9) | 19 | | | | 91 an |
| 1 | 2 | 3 | 4 | 5 | | 2 02 | Nevry | (Date) | Agua | Teal | Emerald | | Line | Yellow |
| T81 -> Cue1 | 02 | 03 | 04 | 05 | | 3 03 | 100 | Comments. | Silke . | See. | | | | |
| 6 | 7 | 8 | 9 | 10 | | 4 04 | | | | | | | | |
| 05 | 07 | 00 | .00 | 10 | | 5 05 | | Orange | Hed | Marcon | Fuchale | Purple | Gray | Silver |
| 00 | | | 09 | 10 | | 5 05 | | | | 24 | 24 | | - | |

[User Assignable - Button color]

Choose "Talkback Destination" as Function, and "1" (#1 out of 8 Talkback Destinations) as Parameter respectively.



[User Assignable – Function/Parameter]

Considering the color and position of each button, configure other User Assignable buttons. When configured, check those buttons in the Main window.





[Settings – User Assignable]

Assign VU Meter channels

Next, we will configure the AES/EBU channels for the VU meter. Choose each Monitor Matrix Output channel for the Source 1-6, and then Downmix Meter L and R for Source 7 and 8 respectively.

| | A | ES / EBU Out | | | |
|---|----|-----------------|----|-------|--|
| | | Source | | Label | |
| | 1 | Meter Out1 | ~ | | |
| | 2 | Meter Out2 | ~ | | |
| | 3 | Meter Out3 | | | |
| | 4 | Meter Out4 | | | |
| | 5 | Meter Out5 | | | |
| | 6 | Meter Out6 | | | |
| N | 7 | Downmix Meter L | ~ | | |
| | 8 | Downmix Meter R | /~ | | |
| | 9 | | ~ | | |
| | 10 | and the | ~ | | |

[Patch - Output Patch]

Assign the input microphones

Next, we will patch the microphones to the MMP1's Channel Strips, process those signals using EQ, Compressor etc., and send them to DAW inputs via Dante (earlier in 7-1.3, we have patched those Dante outputs to Dante Accelerator so they can be input to the DAW).

| Ch | annel Strip In | | | |
|-----|----------------|--------|-----|------|
| | Source | | | |
| 1-A | Analog In 1 | \sim | 1-B | elli |
| 2-A | Analog In 2 | \sim | 2-B | nd): |
| 3-A | Analog In 3 | \sim | 3-B | - |
| 4-A | Analog In 4 | \sim | 4-B | |
| 5-A | | \sim | 5-B | |
| e 1 | | | C D | |

[Patch - Input Patch]



[Patch - Output Patch]

Configure Bass Management

Regarding the bass management (that we have turned on in the Setup Wizard), go to Speaker Matrix and you will see each channel with Low Pass Filter applied is sent to the LFE channel so you can adjust each trim, and also select the process type (IIR/FIR) and the filter slope of each channel in Settings – Speaker Matrix page.

| 80 | М | M | PI | 2 | | | | | | Ma | in | | | Sul | 0 | 1 | |
|--------|-------------|--------|-----------|-------|----------|---------------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------------|-------------------|-------------------|-------------------|----|
| | | | | Speak | er Matri | x Out | A | A | A | Α | A | A | | | | | |
| Speake | r Matrix In | | | | Process | 5 | SPK Out A L | SPK Out A R | SPK Out A C | SPK Out A LFE | SPK Out A Ls | SPK Out A Rs | SPK Matrix Out 01 | SPK Matrix Out 02 | SPK Matrix Out 03 | SPK Matrix Out 04 | |
| 1 | Source | | Type | Trim | Туре | Filter Setting | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 1 |
| 11 | | \sim | Monitor | 0.0dB | IIR | HPF 80Hz(12dB/Butt) | | | | | | | | | | | l |
| 2 L | | ~ | Monitor | 0.0dB | IIR | LPF 80Hz(24dB/Butt) | | | | | | | | | | | Ī |
| 3 R | | \sim | Monitor | 0.0dB | IIR | HPF 80Hz(12dB/Butt) | | | | | | | | | | | |
| 4 R | | \sim | Monitor | 0.0dB | IIR | LPF 80Hz(24dB/Butt) | | | | | | | | | | | |
| 5 C | | \sim | Monitor | 0.0dB | IIR | HPF 80Hz(12dB/Butt) | | | | | | | | | | | |
| 6 C | | ~ | Monitor | 0.0dB | IIR | LPF 80Hz(24dB/Butt) | | | | | | | | | | | Ĩ |
| 7 LFC | | | LFE | 0.0dB | IIR | | | | | | | | | | | | |
| 8 Ls | | ~ | Monitor (| 0.0dB | ((R | HPF 80Hz(12dB/Butt) | | | | | | | | | | | |
| 9 Ls | | \sim | Monitor | 0.0dB | IIR | LPF 80Hz(24dB/Butt) | | | | | | | | | | | ĺ |
| 10 Rs | | \sim | Monitor | 0.0dB | IIR | HPF 80Hz(12dB/Butt) | | | | | | | | | | | |
| 11 Rs | | \sim | Monitor | 0.0dB | IIR | LPF 80Hz(24dB/Butt) | | | | | | | | | | | |
| 12 | | ~ | | 0.0dB | | | | | | | | | | | | | |
| 13 | | ~ | | 0.0dB | | | | | | | | | | | | | |
| 14 | | ~ | | 0.0dB | | | | | | | | | | | | | į, |

[MMP1 Editor – Speaker Matrix]

Now we have completed offline settings. Connect MMP1 and the PC via switch and run MMP1 Editor to synchronize it with MMP1. Click on the sync icon at the top right.



[MMP1 Editor - Synchronization icon]

Choose the NIC (network interface) to connect to MMP1with, and the MMP1 units that can be connected are shown in the Device area. As we are sending the data we have just created to the MMP1 unit this time, Click on "CONNECT (Editor -> MMP2)" button.

| |): | Select MMP1 | 1 | |
|-----------------------|-------------------------|-------------|-----------------------------|----------|
| NIC | en0 vmnet1 vmnet8 | | | |
| | Y002-a-MMP1 | Name | IP Address 169.254.6.121 | Identify |
| and the second second | 1 | | | |

[MMP1 Editor – Select MMP1]

Then the synchronization will begin.

| | мм | | | | | | Sudi | | Manitor | | | Anna Contractor | Patek | Settings | i bitor | nation | 100 miles 100 mi |
|------------------|----|--|--|--|------|------|------|------|---------|-----|-----|------------------|-------|----------|---------|--------|--|
| | | | | | | | | | | | | | | | | | |
| 340 M | | | | | | | | | | | | | | | | | |
| FADER | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| - 196 - 196 | | | | | | | | | | | | | | | | | |
| POTE | | | | | - | | - | | | | | | | | | | |
| (\mathbb{C}) | | | | | | | | | | | | | | | | | |
| -\$-0N | | | | | | | | | | | | | | | | | |
| - | | | | | Syno | cing | With | h Y(| 002- | a-M | IMP | 1960) 1960 (d | | | | | |
| | | | | | | | | | | | | | | | | | |
| 0,948 . 941 | | | | | | | | | | | | | | | | | |

[MMP1 Editor Synchronization]

When the synchronization is finished, the green icon on the MMP1 Editor will light so it indicates that MMP1 and MMP1 Editor are online.



[MMP1 Editor – Online status]

6-3. Configuring MMP1 Controller

Here we are going to learn how to connect iPad to MMP1, and how to configure them so you can remotely control MMP1 from MMP1 Controller.

Wireless connection with iPad

In case you want to connect iPad to MMP1 wireless, use a Wifi access point. In this example, we will use Apple AirMac Extreme as the Wifi access point. Once you have connected the LAN port of AirMac to the switch, configure the AirMac by using AirPort Utility.



[Apple AirPort Utility]

You will see warning messages when you connect the PC to the AirMac such as no Internet Connection and No DNS Servers, simply ignore those messages.

Click on the AirMac icon and you will see an popup window. And click on Edit button. Type a name for the Base Station and the password for it.

| | AirPort Utility |
|--|--|
| Base Station Inte | ernet Wireless Network Disks |
| Base Station Name: | MMP1 Network |
| Base Station Password: | •••• |
| Verify Password: | •••• |
| | Remember this password in my keychain |
| Using Back to My Mac yo services such as file sha | ou can access this AirPort base station for ring from your other computers that have Back |
| [Air | Port Utility - Base Station] |

Next, set the password for WiFi connection in the Wireless page. For Wireless Security, choose "WPA/WPA2 Personal".

| | AirP | ort Utility | | | | | |
|------------------------|-------------------|---------------|-------------|----------|------|--|--|
| Base Station Inte | rnet | Wireless | Network | Disks | | | |
| Network Mode: | Crea | te a wireless | network | | 0 | | |
| Wireless Network Name: | MMP1 Network | | | | | | |
| Wireless Security: | WPA/WPA2 Personal | | | | | | |
| Wireless Password: | •••• | •••• | | | | | |
| Verify Password: | •••• | •••• | | | | | |
| | 🗹 Rer | nember this | password in | my keych | nain | | |
| Enable Guest Network: | | | | | | | |

[AirPort Utility - Wireless]

In the Network tab, make sure you choose "Off (Bridge Mode)" as Router Mode.

| | , and one officially | | |
|--------------------|--|------------|---|
| Base Station In*- | DHCP and NAT DHCP Only Off (Bridge Mode) | Dielee | |
| DHCP Reservations: | Description | IP Address | ^ |

[AirPort Utility - Network]

Now the AirMac is configured and next we are going to connect the iPad to this AirMac wireless. Open Setting and turn the WiFi on.



[Settings - Wi-Fi]

When you choose the AirMac, you will see the "No Internet Connection" message, there will be no problem.

| | Wi-Fi | |
|--|--------------------|----------------|
| | Wi-Fi | |
| | MMP1 Network | ≜ ‡ (j) |
| | CHOOSE A NETWORK 🕺 | |
| | [Settings – Wi-Fi] | 0 |

Tap on MMP1 Controller icon and MMP1 Controller will run.



[Yamaha MMP1 Controller]

Tap on the icon at the upper right-hand corner for synchronizing MMP1 Controller and MMP1.



[Sync icon at the upper right]

When you see the following screen, tap on "Connect" and the synchronization will occur.

| Select M | MMP1 | |
|------------------|---------------|----|
| Wireless | Wired | |
| Y001-Yamaha-MMP1 | 169.254.6.121 | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| Offline | Conn | |
| | | N. |

[Select MMP1 - Wireless]



Now the MMP1 Controller is online and you can remotely control MMP1 from it.

| ≣ ммрт | 555 L | | Ch Strip | Preference | [|
|----------------------------|---------|-----------------|----------|------------|-------------------|
| Dialog Music Sound Effects | SUM | | | | |
| | | TB1 -> Cue 1 | Cue 2 | Cue 3 | TB1 -> All Cue |
| Gue () Car 2 Car 2 | | TB2 -> Cue 1 | Cue 2 | Cue 3 | TB2 -> All Cue |
| Monitor Le | evel | | | | |
| -00 | dB 💛 | | | | |
| -20.0 dB | dB | 5.1 | | | |
| DIM | | | | | |
| No. | <u></u> | | | • | |

[MMP1 Controller - online]

Wired connection with iPad

In order to connect iPad via LAN cable, you will need to use the two adapters described earlier and configure iPad connected to the switch. Make sure "Apple USB Ethernet Adapter" is shown, tap on that and you will see the IP address and other setting in the next page (in this example, we are using Auto IP addressing so make sure each IP address is set at 169.254.xxx.yyy with the subnet mask of 255.255.0.0).

| | Ethernet |
|--|----------------------------|
| Settings | INTERFACES |
| Q. Search | Apple USB Ethernet Adapter |
| | |
| TMG Yamaha Apple ID, iCloud, iTunes & App Store | |
| Apple ID Suggestions 2 | |
| Airplane Mode | |
| 🛜 Wi-Fi Off | |
| Ethernet | |
| | |

[Settings - Ethernet]

| | Ethernet | Apple USB Ethernet Adapter |
|--|---------------|----------------------------|
| Settings | IPV4 ADDRESS | |
| Q Search | Configure IP | Automatic > |
| | IP Address | 169.254.139.174 |
| TMG Yamaha Apple ID, iCloud, iTunes & App Store | Subnet Mask | 255.255.0.0 |
| Apple ID Suggestions 2 | Router | |
| | Renew Lease | |
| 🛜 Wi-Fi Off | DNS | |
| Ethernet | Configure DNS | Automatic 🗦 |
| - | | |

[Settings - Ethernet - Apple USB Ethernet Adapter]

Run MMP1 Controller and tap on the icon at the top right-hand corner and the following window will open. Tap on "Wired" and make sure the device name and the IP address of the MMP1 are shown. Tap on "Connect" button and the synchronization will occur.



[Select MMP1 - Wired]

Now the MMP1, MMP1 Editor and MMP1 Controller are online and you are ready to get started.

