# **WYAMAHA**

# **MTX Setup Manual**

This manual serves as an introduction to possible installation methods and application examples for the MTX series of DSP processors used in conjunction with MTX-MRX Editor control software.

Please refer to the owner's manual on a device about the details of MTX, and refer to the "MTX-MRX Editor User Guide" (PDF file) about the details of MTX-MRX Editor.

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## Introduction

The MTX Setup Manual explains how to create setups using the MTX and MTX-MRX Editor.

As examples, we will provide simple explanations of the typical setups described below.

For detailed parameter settings, refer to "MTX-MRX Editor User Guide" and to the owner's manual and installation manual of the XMV, MTX, DCP, MCP1, and PGM1.

When you install MTX-MRX Editor, the five example files described here will be found in the following folders.

#### • 32-bit operating system

C:\Program Files\Yamaha\MTX-MRX Editor\V\*.\*\ProjectFile

#### • 64-bit operating system

C:\Program Files(x86)\Yamaha\MTX-MRX Editor\V\*.\*\ProjectFile

\*.\* will be the version of the installed MTX-MRX Editor.

Example 1 : MTX3 basic system-\*.mtx Example 2 : MTX3 XMV digital system-\*.mtx Example 3 : MTX3+MCP1 cascade example-\*.mtx Example 4 : MTX5-D Dante system-\*.mtx Example 5 : MTX5-D+PGM1 Shopping mall-\*.mtx

-\* is a management number. In some cases, there will be no -\*.

#### Example 1) Basic MTX3 system example (analog connections)



This example assumes that you're using the following equipment.

- MTX3 × 1
- DCP1V4S  $\times$  4
- Amplifiers (four channels of amplification)
- Speakers (the number needed)
- SD memory card  $\times 1$

- Background music source such as a CD player  $\times 1$
- Paging microphones with switch  $\times 2$
- Wireless microphone receivers (2 channels)
- Wireless microphones × 2

The number of speakers is not specified; choose amps that are suitable for your speaker setup. You will also need to provide the appropriate number of cables.

#### Example 2) High audio quality system with XMV and YDIF connections (digital connections)

This repeats the system of example 1, replacing the amps with an XMV series unit.



This example assumes that you're using the following equipment.

- MTX3  $\times$  1
- DCP1V4S  $\times$  4
- XMV4280 (four channels of amplification) × 1
- Speakers (the number needed)
- SD memory card  $\times 1$
- Background music source such as a CD player  $\times 1$
- Network switch  $\times 1$
- Paging microphones with switch  $\times 2$
- Wireless microphone receivers (2 channels)
- Wireless microphones  $\times 2$

The number of speakers is not specified; choose amps that are suitable for your speaker setup. You will also need to provide the appropriate number of cables.

#### Example 3) Using cascade mode to add MTX input channels (analog connection)

Cascade mode allows the matrix buses to be shared between MTX units. This mode lets you use two MTX units to increase the number of inputs, and output the combined inputs to a single amp. In cascade mode, audio cannot be transmitted to the XMV via YDIF.





This example assumes that you're using the following equipment.

- MTX3  $\times$  2
- MCP1 × 1
- XMV4280 (or an amp with analog input)  $\times 1$
- Background music source such as a CD player  $\times 1$
- Speakers (the number needed)
- PoE network switch  $\times 1$
- Microphone with switch (for the MC or chair)  $\times 1$
- Wireless microphone receivers (11 channels)
- Wireless microphones × 11

The number of speakers is not specified; choose amps that are suitable for your speaker setup. You will also need to provide the appropriate number of cables.

In order to supply power to the MCP1, the network switch must support PoE.

#### Example 4) A system using Dante

In this example, existing amps continue to be used, while we set up a new system at a distant location, with connections made using Dante.

The system using the existing amps is labeled System A, and the new system is labeled System B.

In example 4, our explanation will be centered on the network settings. For more about increasing the number of mics, DCP settings, or presets, refer to example 2.



This example assumes that you're using the following equipment.

#### System A

- MTX5-D × 1
- Exi $8 \times 1$
- EXo8 × 1
- Amplifiers (eight channels of amplification)
- Network switch  $\times 1$
- Speakers (the number needed)
- SD memory card × 1
- Paging microphones with switch  $\times 1$

#### System B

- MTX5-D  $\times 1$
- XMV4280 × 1
- XMV4280-D × 1
- Network switch  $\times 2^*$
- Speakers (the number needed)
- SD memory card  $\times 1$
- Paging microphones with switch  $\times 1$
- \* As the network switch for Dante connections, we recommend that you use a model that provides IGMP snooping functionality.

The number of speakers is not specified; choose amps that are suitable for your speaker setup. You will also need to provide the appropriate number of cables.

#### Example 5) A system using the PGM1 for paging

This example assumes a paging system using the PGM1, installed in a commercial space such as shopping mall. Although not shown here, restrooms are located in various places.

Laxuary Area		Entrance	Casual Area A	
		Event Space		Information
Casual Area B	Amp Room		Casual Area C	Amp Room
			Food Court	

This example assumes that you're using the following equipment.

- MTX5-D × 1
- XMV8280-D × 2
- PGM1  $\times$  1
- $PGX1 \times 1$
- PoE gigabit network switch such as a SWR2100P-5G  $\times\,1$
- Speakers (the number needed)
- SD memory card  $\times 1$
- Background music source such as a Blu Ray player  $\times 3$

The number of speakers is not specified; choose amps that are suitable for your speaker setup. You will also need to provide the appropriate number of cables.

## **Setup workflow**

The following table shows the workflow for connecting equipment such as MTX series matrix mixers and XMV series power amplifiers to your computer, and making settings in MTX-MRX Editor.

			Example 1	Example 2	Example 3	Example 4	Example 5
Installing MTX-MRX Editor			Page 7				
Starting up M	ITX-MRX Editor				Page 8		
Using the De setup	vice Configuration Wizard to cre	ate your device	Page 9	Page 30	Page 55	Page 82	Page 125
		YDIF	_	Page 35	—	Page 94	_
	Making EXT. I/O settings	XMV (Analog)	-	—	Page 60		_
		XMV (Dante)	_	—	_	Page 106	Page 132
Making pre- liminary set-	Parameter settings for the MTX and external devices (Parameter settings such as for jacks and channels)		Page 14	Page 39	Page 63	Page 98, 111	Page 136
tings in MTX-MRX Editor	Settings in the "DCA" screen (Settings that control the level or mute of multiple channels in a single operation)		_	_	Page 72	_	_
	Digital Control Panel (DCP) settings		Page 21	Page 46	_	_	_
	MCP1 settings	_	_	Page 73	_	_	
	Storing a preset (Presets and r	Page 23	Page 48	Page 74	Page 117	Page 148	
	Dante settings between systen	_	_	_	Page 114	_	
Connecting th	ne equipment		Page 26	Page 51	Page 77	Page 118	Page 149
Power-on the	devices in order		Page 26	Page 52	Page 78	Page 120	Page 150
Setting the MCP1's UNIT ID		_	—	Page 78	_	_	
Specifying the computer's TCP/IP address		Page 27	Page 52	Page 78	Page 120	Page 150	
Taking MTX-I	MRX Editor online		Page 28	Page 53	Page 79	Page 122	Page 152
Making XMV settings		—	Page 54	Page 80	Page 122	Page 152	
Verifying that	the settings were applied		Page 29	Page 54	Page 80	Page 123	Page 153

## Installing MTX-MRX Editor

In order to connect MTX series devices to your computer, you'll need to download MTX-MRX Editor from the "download" page of the Yamaha Pro Audio website.

http://www.yamahaproaudio.com/

#### **System Requirements**

OS	Windows 10 (32bit/64bit)			
CPU	Core i3/5 or better			
Memory	4 GB or more			
H.D.D	230 MB or more free (When you install, need 480 MB or more free.)			
Other	Bonjour must be installed, Ethernet (1000BASE-T or higher)			

#### NOTE

The System Requirements described above are applied to the MTX-MRX Editor version 4.0.0. You can check the latest version information of each program and its system requirements at the following website

http://www.yamahaproaudio.com/

The system requirements may differ slightly depending on the particular computer.

Follow the steps below to install MTX-MRX Editor.

**1.** After decompressing the downloaded file, double-click "setup.exe" in the decompressed file location.

The MTX-MRX Editor setup wizard will appear.

**2.** Proceed with the installation as directed by the instructions in the screen.

#### NOTE

If the computer you're using does not have Bonjour installed, a screen asking you to install Bonjour will appear during the installation.

If you are asked to install Bonjour, download Bonjour from the Yamaha Pro Audio website, and install it. Then install MTX-MRX Editor again.

http://www.yamahaproaudio.com/

## Starting up MTX-MRX Editor

Follow the steps below to start up MTX-MRX Editor.

**1.** Double-click the MTX-MRX Editor icon on the desktop.

#### NOTE

The "User Account Control" dialog box may appear. Click [Continue] or [Yes].

**2.** If the "Network Setup" dialog box appears, click [OK] or [Cancel].

You'll be performing the setup during the step "Making settings in MTX-MRX Editor."

**3.** The "Startup" dialog box will appear; click [New file] and then click [OK].

The "Device Configuration Wizard" will start up. Now you can proceed to make basic settings.

We will use specific examples to explain "Using the Device Configuration Wizard to create your device setup" and subsequent steps.

"Using the Device Configuration Wizard to create your device setup" for example 1: Page 9 "Using the Device Configuration Wizard to create your device setup" for example 2: Page 30 "Using the Device Configuration Wizard to create your device setup" for example 3: Page 55 "Using the Device Configuration Wizard to create your device setup" for example 4: page 82 "Using the Device Configuration Wizard to create your device setup" for example 5: page 125

## Example 1) Basic MTX3 system example (analog connections)

## Using the Device Configuration Wizard to create your device setup

You will use MTX-MRX Editor's wizard to create your device setup before actually connecting your equipment. After you've made basic settings, you'll be able to print information about system cabling and ID numbers. Use the following procedure to make basic settings.

#### **1.** Type a name for the MTX/MRX System you'll be constructing, and click [Next>].

Configuration Wizard			×
System #1           The Device Configuration Wizard guides you through the initial configuration of your system design, and configures device settings.           Select and name a new configuration, edit an existing configuration, or clear an existing configuration.			
SYSTEM NAME System #1			
New			
Edit Configuration Changing the number of devices, type of devices and/or connection will initialize the settings of Word Clock and Dante.			
O Go to Mini-YGDAI Card and Controller Setup.			
© Clear			
Cancel	< Back	Next >	Finish

# 2. Specify the number of units that will be connected in your MTX/MRX System, and click [Next>].

In "YDIF Connected," specify 1 as the number of MTX3 units.

👅 Device Configuration Wizard			
MTX3 basic system		8	
	connected via YDIF, Analog, and/or Dante. ist to make up a system. After changing the	Configuration, re-store the existing Preset of	lata
YDIF Connected	ANALOG Connected	DANTE Connected	
DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number
MRX7-D 0	xmv4140 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	PGM1 ^	MCP1 ^
MTX5-D 0	XMV4280 □ 0 ▼	XMV4140-D 0 ▼	
MTX3	XMV8140	xwv4280−D 0 ▼	
EX18	XMV8280 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	XMV8140-D	
XMV4140	XMV4140-D	XMV8280−D 0 ▼	
XMV4280	XMV4280-D		
XMV8140	XMV8140-D 0		
XMV8280	XMV8280-D 0 •		-
Number of Assigned Devices: •MTX/MRX Total: 1 / 4 • •YDIF Total: 1	/8	·MTX/MRX/XMV/EXio: 1/20 ·PGM	1/MCP1: 0 / 20 · Project Total: 1 / 80
		Cancel	< Back Next > Finish

### **3.** Verify that the MTX's UNIT ID is 1, and then click [Next>].

Unless you have specific reasons for doing so, use the UNIT ID that is assigned.

🐻 Device Configuration Wizard						×
MTX3 basic system						
Set the Unit IDs. Match the Unit IDs in the list below to the If no devices are present yet, match the p			er.			
YDIF Connected DEVICE TYPE UNIT ID	ANALOG Cor DEVICE TYPE UNIT		DAN DEVICE TYPE	TE Connected UNIT ID	DEVICE TYPE	Number
		*			•	
YDIF MODE DISTRIBUTION Y	Л					÷
				Cancel	< Back	Next > Finish

#### 4. Set the MTX's [UNIT ID] rotary switch and DIP switch.

You will set the computer's IP address after completing the wizard, in "Specifying the computer's TCP/IP address." If the MTX is not nearby, make settings during the step "Connecting the equipment."



Make the following settings.

МТХЗ	
	UNIT ID = 01 [UNIT ID] rotary switch = 1 DIP switches are all OFF (upward)

**5.** When you've finished setting the MTX's [UNIT ID] rotary switch and DIP switch, click [Next>].

**6.** Verify that the MTX is shown, and click [Next>].

Configuration Wizard					×
MTX3 basic system			8		
The order of the YDIF connected devices		ıg.			
YDIF Connected DEVICE	ANALOG Connected DEVICE	DEVICE	DANTE Connected	DEVICE	
01 MTX3					^
					1000
Refresh			Cancel	< Back Next >	Finish

**7.** Choose the model of DCP that is connected to the MTX, enter a device name, and click [Finish].

Since four DCP1V4S units will be connected, make settings for four units.

🐻 Devic	e Confi	iguration Wizard						×
	and na		anels connected to each MTX or MRX. ible.					
DEVIC	E 0	●1 MTX3 ▼		<u></u>				
ID		MODEL	Name					
0	10	DCP1V4S-US/EU	Hall A	<b>N</b>				
1	10	DCP1V4S-US/EU	Hall B					
2	5	DCP1V4S-US/EU	Entrance					
3	10	DCP1V4S-US/EU	Kitchen					
4		None	•					
5		None						
6		None						
7		None		-				
					Cancel	< Back	Next >	Finish

8. When you see the dialog box "Display the configuration diagram? The diagram can also be printed." click [Yes].



A cabling diagram will appear. If you want, click [Print] to print the diagram. To close the screen, click [Close].

Configuration	Diagram							<b>—</b>
Ethernet	using Ethernet (	nputer and device directly cable.	DCP Ing 1234 from	oortant - Always set DCI m each MTX or MRX (on	P DIP switch 4 (termin ly set for one DCP per	ation) to the ON position f MTX or MRX).	for the longest DCP cable ru	1
MTX3 basic system DEVICE	em	Digital Control Panel	This is an evenue			ANALOG	DANTE	
DEVICE		Digital Control Panel 04 1 2 3 4 1 2 3 4 ID=0 ID=1	ID=2 ID=3	ID=4 ID=5	ID=6 ID=7	ANALOG	DANIE	
01 MTX3		0 0	Ö Ö					
							>>Page2 Print	Close

Set the DIP switches of the DCP units as shown in the "Digital Control Panel" section of the schematic diagram. For the last DCP (ID=3), set DIP switch 4 ON (upward).



#### NOTE

If you want to view the cabling diagram again, do so by choosing [File] menu  $\rightarrow$  [Print Configuration Diagram].

If you want to use the Device Configuration Wizard to change the device configuration, click the [Device Config] button in the Project screen.



## Making preliminary settings in MTX-MRX Editor

Here's how to make detailed MTX/MRX System settings in MTX-MRX Editor. When you've finished making settings, you should save them by clicking [File] menu, then [Save].

#### NOTE

The "User Account Control" dialog box may appear. Click [Continue] or [Yes].

## ■ Specifying the MTX configuration

Here you'll specify how the MTX's inputs and outputs will be handled.

Move to the System screen by clicking the tab of the system name you specified in step 1 of "Using the Device Configuration Wizard to create your device setup."

Project	MTX ba	MTX basic system			
01 MTX	3				
MAIN	INPUT	MATRIX	ZONE	T	

On the [System] menu, click [MTX Configuration] to open the "MTX Configuration" dialog box. The default settings are shown in the screen below. You can change them as necessary. In this example, we'll use the default settings without change.

TX Configuration						
Device: 01 MTX3 : MTX	3 🔻					
INPUT OUTPUT						
-INPUT PORT SETUP		INPUT CHANNE	EL SETUP			
	SIGNAL TYPE		SIGNAL TYPE		SIGNAL TYPE	
ST IN 1L/1R	STEREO	• 1/2	MONO x 2	<ul> <li>STIN1</li> </ul>	STEREO 🔻	
ST IN 2L/2R	STEREO	3/4	MONO x 2	<ul> <li>STIN2</li> </ul>	STEREO 🔻	
SD IN L/R	STEREO	5/6	MONO x 2	<ul> <li>STIN3</li> </ul>	STEREO 💌	
		7/8	MONO x 2	17/18	MONO x 2 👻	
		9/10	MONO x 2	19/20	MONO x 2 👻	
		11/12	MONO x 2	21/22	MONO x 2 👻	
		13/14	MONO x 2	23/24	MONO x 2 💌	
		15/16	MONO x 2	•		
Advanced Settings						
These settings form the l	Device Configuration. If the co	nfiguration setup is ch	anged, please re-store all Presets a	and DCP/Wireless DCP libi	raries. OK Cancel	

## Settings in the "MAIN" screen

In the "MAIN" screen you can make overall settings for each channel. For details on each parameter, refer to "MTX-MRX Editor User Guide." Here you'll make the following settings.

- Channel name
- Channel on/off
- Gain and phantom power
- (As necessary) EQ settings



#### • INPUT settings



#### Port select button

When you click this, the "Input Patch" dialog box will open. In this example we are using the default settings, but if you want to switch to a different input port of the MTX, click this button, choose the desired input port, and then click the [Close] button.

## Port / External Device parameter access button

This button lets you adjust the gain and turn phantom power on/off. When you click the button, a popup window will appear, allowing you to adjust the gain and turn phantom power on/off. Make the desired settings, and then in the upper right, click × to close



the popup window. The appropriate gain level will depend on the devices that are connected, so set the level appropriately for your devices.

For channels 1 through 8, the gain is set to 30 dB by default. Because condenser microphones are connected to CH1 and 2, leave the gain at 30 dB and turn phantom power on. Because wireless microphones are connected to CH3 and 4, lower the gain to 0 dB.

#### EQ / HPF (High Pass Filter)

Click this to switch to the "CHANNEL EDIT" screen. Adjust the EQ and HPF appropriately for the microphone you're using. For ST IN, only EQ is available. When you want to return to the "MAIN" screen, click the [MAIN] button.

#### FBS (Feedback suppressor)

FBS is provided on input channels 1 through 4. We recommend that microphone inputs, and particularly movable microphones such as wireless microphones, be connected to channels 1 through 4. When you click here, you will switch to the FBS setting screen.

When you want to return to the "MAIN" screen, click the [MAIN] button. For details on FBS settings, refer to "MTX-MRX Editor User Guide."

#### [ON] button

This turns the channel on/off. You should turn off unused channels.

#### Fader

This adjusts the input level. Leave the fader at -∞ until the system goes online.

#### **Channel name**

You can double-click this to edit the name.

In this example, names have been assigned as follows.

CH1	Entrance
CH2	Kitchen
СНЗ	W.Mic1
CH4	W.Mic2
STIN1	CD Player
STIN2	BGM
STIN3	SD Player

## • OUTPUT settings



#### Port select button

Click this to open the "Output Patch" dialog box. In this example we will use the default settings, but if you want to use a different output port of the MTX, click this button, choose the desired output port, and then click the [Close] button.

#### Port / External Device parameter access button

When you click this button, the MTX output connector parameter edit screen will appear as a popup. Verify that GAIN is set to 0.0 dB.



#### DELAY / Room EQ

Click this to move to a screen where you can set delay and room EQ.

#### Speaker processor

Click this to move to the "CHANNEL EDIT" screen. Make the appropriate settings for the speakers that will be connected.

#### NOTE

The pre-installed library contains speaker processor files that are appropriate for the response of various speakers. By using these files you can make speaker processor settings easily.

#### [ON] button

This button turns the channel on/off. Turn off unused channels.

#### Fader

This adjusts the output level.

#### Channel name

You can double-click this to edit the name. In this example, names have been assigned as follows.

OUT1	Hall A
OUT2	Hall B
OUT3	Entrance
OUT4	Kitchen

## Settings in the "MATRIX" screen

Here you can specify which input channel will be sent to which zone. For details on send level and other parameters, refer to "MTX-MRX Editor User Guide."



In this example, make the settings shown in the above illustration. Clicking a cross point (a square area) or dragging cross points will switch it on/off. If you right-click on a cross point, a context menu appears. You can select [All OFF] to turn off all cross points. The cross point shows the send level as the amount of green.

With the settings shown here, the two microphones in hall A (CH3 and 4) are broadcast only to hall A. In addition, CD/ BGM/SD (STIN1–3) are being broadcast to the entire building. The microphone in the entrance (CH1) is assigned to be broadcast to the entire building in the event of an emergency, and is therefore assigned in the "ZONE" screen

(described next) as 1<sup>st</sup> PRIORITY. If channel 1 is turned on in the matrix, the signal from the matrix (attenuated) and the signal from Priority will be combined and output. Similarly, the microphone in the kitchen (CH2) is assigned as 2<sup>nd</sup> PRIORITY that is valid only in zone 4 (Kitchen), and therefore is not specified in the matrix.

For the input channel faders in the lower left of the screen, the grayed-out faders show input levels, and the other faders show input channel send levels. Grayed-out faders cannot be operated in this screen.



Priority signal flow

## Settings in the "ZONE" screen

In the "ZONE" screen you can make Priority DUCKER settings. The Priority Ducker function temporarily attenuates the inputs from other channels when audio is input from a specified input channel, ensuring that the audio from the specified input channel will be broadcast clearly. Priority is given in the order of "1<sup>st</sup> PRIORITY > 2<sup>nd</sup> PRIORITY > Matrix Out signals."



In this example, we assume that the microphone in the entrance (CH1) will be used to speak to the entire building. Therefore, we select CH1 as the 1<sup>st</sup> PRIORITY SOURCE for zone 1 through zone 4, and click the [ON] button located at the right of 1<sup>st</sup> PRIORITY to make it light. We select the kitchen microphone (CH2) as the 2<sup>nd</sup> PRIORITY SOURCE only for zone 4 (Kitchen), and click the [ON] button located at the right of 2<sup>nd</sup> PRIORITY to make it light. Because there's no need to make settings for zones 5 through 8, make sure that the [ON] button at the right of 1<sup>st</sup> PRIORITY are unlit (turned off).

Use the ZONE select buttons to switch the zone.

For details on each parameter, refer to "MTX-MRX Editor User Guide."

## Settings in the "ROUTER" screen

In the "ROUTER" screen you can assign zones to outputs.

In this example we will leave the default settings unchanged, since the assignments are ZONE1=OUTPUT 1, ZONE2=OUTPUT 2, ZONE3=OUTPUT 3, and ZONE4=OUTPUT 4.



## Digital Control Panel (DCP) settings

Here's how to assign functions to the DCP that is installed in each zone. To make these settings, choose the [Controller] menu item [Digital Control Panel].

👸 Digital Control Panel						×
Library	01 MTX3 🔻 0 H	all A 🔻				
<u>Save</u>		Parameter Assign	Dimmer & I	lock		≡
No. Name	DCP1V4S-US/EU	Switch	-			
01 [No Data]		FU	NCTION	DEVICE	PARAMETER	
02 [No Data]	3 - 4		_			
03 [No Data]		1 No Assig	n			
04 [No Data]	O	2 No Assig	0			
05 [No Data]	atreas at		"			
06 [No Data]		3 No Assig	n			
07 [No Data] 08 [No Data] ≡						
09 [No Data]		4 No Assig	n			
10 [No Data]						
11 [No Data]		Kent				
12 [No Data]		Knob				
13 [No Data]		FU	NCTION	DEVICE	PARAMETER	
14 [No Data]		1 No Assig	n			
15 [No Data]						
16 [No Data]						
17 [No Data]						
18 [No Data] 19 [No Data]						
20 [No Data]						
21 [No Data]						
Copy Paste Clear						
To apply the settings, associate and then recall the Preset.	e the Library with a P	reset in the Preset dialog	0		?	Close

Here we will use the example of the DCP located in Hall A of the Preset 01 Basic library.

Use the drop down list at the top of the screen to select the DCP for which you want to make settings.

When you click one of the numbered buttons, a "Settings" dialog box will appear; assign parameters to the controls. If you assigned [SD Song Select & Play], enter the name of the file that you want to play.

When you've made the assignments, click to select "01 [No data]" and then click the [Save] button. In the "Save Library" dialog box, change the name to "Basic" and then click the [OK] button.

🐻 Dig	gital Control Panel							<b>×</b>
Libra	агу	01 MTX3 🔻 0 H	all A 🔻					
<u></u>	ave Load		Parameter As	ssign	Dimmer & L	ock		≡
No.	Name	DCP1V4S-US/EU	Switch					
01	Basic 🔺			FUN	CTION	DEVICE	PARAMETER	
02	[No Data]	3 4		Preset Red	- Ile		02 [No Data]	
03	[No Data]			Treserved	,dii		02 [NO Data]	
04	[No Data] [No Data]		2	No Assign				
06	[No Data]							
07	[No Data]		3	SD Song S	elect & Play	01 MTX3		
08	[No Data]			OD Cone D		01 MTX3		
09	[No Data]		4	SD Song P	ause	UTWIX5		
10	[No Data]		L					
11	[No Data] [No Data]		Knob					
13	[No Data]			FUN	CTION	DEVICE	PARAMETER	
14	[No Data]		1	ZONE Out	lovel	01 MTX3	ZONE 1 [-∞dB - 10.0dB]	
15	[No Data]			ZONE OUL	Level	010173	20NE 1_[-~dB- 10.0dB]	
16	[No Data]							
17	[No Data]							
18	[No Data]							
19 20	[No Data] [No Data]							
21	[No Data]							
	[ive Data]							
Cop	oy <u>P</u> aste Cl <u>e</u> ar							
	pply the settings, association the setting of the set in the set in the set.	ate the Library with a P	reset in the Pre	set dialog,			•	Close

In Basic, switch 1 is the preset select switch for the Party settings. Switches 3 and 4 control pause/resume for playback of audio sources on the SD memory card. The knob controls the output level of zone 1.

Next click the [Copy] button, and then click "02 [No Data]" to select the second library item. With this selected, click the [Paste] button. The library item you created as "Basic" will be copied.

Die Die	gital Control Panel							×	
Libra		01 MTX3 🔻 0 H	Hall A 🔻						
<u>S</u>	ave Load	Parameter As	Parameter Assign Dimmer & Lock						
No.	Name	DCP1V4S-US/EU	Switch						
01	Basic 🔺			FUNCTIO	N	DEVICE	PARAMETER		
02	Basic	3 4		Preset Recall			02 [No Data]		
03	[No Data]			FleserRecall			02 [N0 Data]		
04	[No Data] [No Data]		2	No Assign					
06	[No Data]								
07	[No Data]		3	SD Song Select	& Play	01 MTX3			
08	[No Data]								
09	[No Data]		4	SD Song Pause	•	01 MTX3			
10	[No Data]								
11	[No Data]		Knob						
12	[No Data]			FUNCTIO	N	DEVICE	PARAMETER		
13	[No Data]								
14	[No Data] [No Data]		1	ZONE Out Leve	6	01 MTX3	ZONE 1 _ [-∞dB - 10.0dB ]		
16	[No Data]								
17	[No Data]								
18	[No Data]								
19	[No Data]								
	[No Data]								
21	[No Data]								
			<u>6</u>						
Cot									
	pply the settings, associa then recall the Preset.	ate the Library with a F	Preset in the Pre	set dialog,			0	Close	

After changing the PARAMETER of switch 1 to "01," double-click "Basic" in "02 Basic" located in the left of the screen, and change the name of the library item to "Party." (After you've entered the name, press the <Enter> key to confirm the name change.) After making this change, click the [Save] button to overwrite-save the library item.

👅 Digital Control Panel						×
Library	01 MTX3 🔻 0 Hall A	•				
<u>S</u> ave <u>L</u> oad		eter Assign	Dimmer &	Lock		
No. Name	DCP1V4S-US/EU Swit	ch				· · · · ·
01 Basic	1 2	FUI	NCTION	DEVICE	PARAMETER	
02 Party 03 [No Data]	3 4	1 Preset Re	call		01 [No Data]	
04 [No Data] 05 [No Data]		2 No Assign	n			
06 [No Data] 07 [No Data]		3 SD Song	Select & Play	01 MTX3		
08 [No Data] 09 [No Data]		4 SD Song	Pause	01 MTX3		
10 [No Data] 11 [No Data]	Knot	)				
12 [No Data] 13 [No Data]			NCTION	DEVICE	PARAMETER	
14 [No Data] 15 [No Data]		1 ZONE Ou	t Level	01 MTX3	ZONE 1 _ [-∞dB - 10.0dB ]	
16 [No Data] 17 [No Data]						
18 [No Data] 19 [No Data]						
20 [No Data] 21 [No Data]						
Copy Paste Clear	<u> </u>					
To apply the settings, associat and then recall the Preset.	te the Library with a Preset in t	he Preset dialog,			0	Close

In Party, switch 1 is the preset select switch for the Basic settings. Other settings are the same as for Basic.

#### Example settings for other DCP units

ID of the DCP	1 (Hall B) Basic Party		2 (Ent	rance)	3 (Kitchen)	
Library name			Basic	Party	Basic	Party
Switch 1			Input Ch	ON (CH1)	Input Ch ON (CH2)	
Switch 2	Same as ID=0		No Assign		No Assign	
Switch 3	(Hall A)	Same as ID=0 (Hall A)				
Switch 4						
Knob 1	ZONE OUT Level (ZONE2)		Input Ch Level (CH1)		Input Ch L	evel (CH2)

## **Tips**

By clicking the menu button ( ), you can copy and paste the Parameter Assign and Dimmer & Lock settings of the displayed library item. By copying the ID=0 settings to ID=1, you can speed up your workflow. Similarly, you can make Basic settings for ID=2 and then copy them to Party, or copy them to ID=4.

## Storing a preset

Now we'll store the settings we've made up to this point as a preset. By recalling presets from the MTX itself or from the DCP, you can switch

the settings as appropriate for various situations.

To store or recall a preset, click the camera icon in the upper part of MTX-MRX Editor.



When you click the camera icon, the "Preset" dialog box will appear. You can create up to 50 presets.

Click the preset number that you want to store; the line will be selected. Then click the [Store] button, specify the preset name, and click the [OK] button.

Double-click a location where the DCP column indicates "No Assign," and choose a library that you specified on the DCP.

			8	Wire	less DC	P Librar	y -		
Assign				Assign					
01 Basic				01					-
02 Party			=	02					* III
03				03					
04				04					
05 06				05 06					
07				07					
08				08					
09			-	09					-
GPI OUT									
DEVICE	1	2	3	4	5	6		7	8
01 MTX3	Ignore	Ignore	Ignore	Ignore					
SD Same Salast	P. Diau								
	& Play		DNG		PI A	MODE			
DEVICE			DNG		PLA	YMODE			 
	& Play		DNG		PLA	YMODE			 
DEVICE			DNG		PLA	YMODE			
DEVICE			DNG		PLA	YMODE			
DEVICE			DNG		PLA	YMODE			
DEVICE			DNG		PLA	YMODE			
DEVICE			DNG		PLA	YMODE			
			DNG		PLA	YMODE			

Pre	set							<b>_</b>
	<u>S</u> tore	<u>R</u> ecall						Recall <u>F</u> ilter
8°	No.	Name		MTX3	DCP	Wireless DCP	GPI/SD PLAY	
	01	Basic	$\checkmark$	ALL	01 Basic	No Assign	details	
	02	[No Data]						
	03	[No Data]						
	04	[No Data]						
	05	[No Data]						
	06	[No Data]						
	07	[No Data]						
	08	[No Data]						
	09	[No Data]						
	10	[No Data]						
	11	[No Data]						
	12	[No Data]						
	13	[No Data]						
	14	[No Data]						
	15	[No Data]						
	16	[No Data]						
	17	[No Data]						
	18	[No Data]						
	19	[No Data]						
	20	[No Data]						(
0	ору	Paste Cl <u>e</u> ar			ALL: Recall all pa	arameters		Preset Link
					P : Recall parti	al parameters		I HOSOT LINK
	_	Default Emergency Recall						
OFF	-	1 • OFF 1 •						
								Close

Up to this point, you made separate settings for zone 1 and zone 2. However in some cases, such as a party, you might want to remove the boundary between zone 1 and zone 2 so that they can be a single meeting area. In this case, make settings in the "ROUTER" screen to route zone 1 to output 2, so that zone 1 and zone 2 can be used as a single space.



If you store these settings as a different preset, you'll be able to easily switch to settings suitable for a party. If you use Recall Filter to specify that only ROUTER and DCP settings are recalled, other settings such as gain will remain at the Basic settings even if you recall a party preset.

<u>S</u> tore	<u>R</u> ecall						Exit Recall
No.	Name		MTX3	DCP	Wireless DCP	GPI / SD PLAY	
01	Basic		ALL	Basic	No Assign	details	
02	Party		ALL	Party	No Assign	details	
03	[No Data]						
04	[No Data]						
	INPUT/LEVEL	9 10	MATRD SEM 1 2 3	ID ZONE (		The blue buttons are reca	Iled. DCP 0 1 2
HA IN PATCH	4         ST2           5         ST3           7         -           8         -           Fx1         DCA           Fx2	12 13 14 15 16 tomixer	4 5 6 7/8 ANC	5 6 7/8		A HO LEVEL LAO A LINO A	3 4 5 6 7 

This completes settings in the offline state. Save the settings once again.

## **Connecting the equipment**

After you've rack-mounted the MTX and your other equipment, connect the MTX and the other equipment as shown below. If you've copied audio sources to an SD memory card, insert the card into the MTX now.



To connect the MTX to your computer, use a CAT5e or higher cable with all eight pins connected.

## **Powering-on the MTX**

Turn on the power of the MTX. Turn off the amplifier before you power-off the MTX.

## Powering-on the amp

Turn on the power of the amplifier.

To prevent unwanted sound from being output, we recommend that you turn down the attenuator settings of all channels on the amp itself before you turn it on.

## Specifying the computer's TCP/IP address

To allow the MTX and the computer to communicate, specify the computer's TCP/IP as follows.

- **1.** On the [System] menu, click [Network Setup]. The "Network Setup" dialog box will appear.
- **2.** Click [Open Network Connection]. "Network Connections" will appear.
- **3.** Right-click the adapter to which the MTX is connected, and choose [Properties]. The "Local Area Connection Properties" dialog box will appear.
- **4.** Choose [Internet Protocol Version 4 (TCP/IPv4)], and then click [Properties]. The "Internet Protocol Version 4 (TCP/IPv4) Properties" dialog box will appear.
- 5. Click [Use the following IP address (S)].
- 6. In the [IP address] box, enter "192.168.0.253"; in the [Subnet mask] box, enter "255.255.255.0."

```
NOTE
```

The IP address of the MTX3 is set to "192.168.0.1".

ternet Protocol Version 4 (TCP/I General	
	automatically if your network supports eed to ask your network administrator
Obtain an IP address autom	atically
• Use the following IP address	s:
IP address:	192.168.0.253
Subnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server address	automatically
• Use the following DNS serve	r addresses:
Preferred DNS server:	
<u>A</u> lternate DNS server:	
Validate settings upon exit	Ad <u>v</u> anced
	OK Cancel

## 7. Click [OK].

#### NOTE

In some cases, Windows firewall may block MTX-MRX Editor when you make this setting. Select the [Private Network] check box, and click [Allow Access].

## **Taking MTX-MRX Editor online**

In the upper right of MTX-MRX Editor, click the [Online] button. When the unit has successfully come online, the indicator 1 will light blue.



When the "Synchronization" dialog box appears, select "To Device," and click the [OK] button. When the indication in the dialog box has switched, select the system that you want to place online, and click the [Online] button. The project created in MTX-MRX Editor will be sent to the MTX.

	S	ynchronization			
		DIRECTION: To Devi	се		
		SYSTEM	STATUS	PROGRESS	
Synchronization		MTX3 basic sy	OFFLINE		details
To Device     From Device		No Assign	LOST		details
		No Assign			details
		No Assign			details
OK Cancel		System Message Select the systems to g	go online and	then click [Online] button.	
				Online	Cancel

## Verifying that the settings were applied

The main items to verify are listed below. For details on each parameter setting, refer to "MTX-MRX Editor User Guide."

#### **1.** Recall the Basic preset.

2. Using the oscillator in the "ROUTER" screen, adjust the output level.

Adjust the amp's attenuator value to an appropriate level.

#### 3. Specify the gain from the microphone.

You can set the gain in the dialog box that appears when you press the parameter recall button for a port or external device of an input channel in the "MAIN" screen. Watch the input meter, and adjust the setting appropriately.

#### 4. Set the input levels and output levels.

Using the input/output faders in the "MAIN" screen, adjust the levels. As necessary, apply the output limiter in the "CHANNEL EDIT" screen to prevent your speakers from being damaged. Adjust the amp attenuator values to obtain the optimal S/N ratio. In addition, make FBS settings as necessary.

#### 5. Store the Basic preset.

Store by overwriting the previously-specified content.

#### 6. Recall the Party preset.

Verify that the audio from the wireless microphone is also heard in Hall B. If you're not using Recall Filter, perform steps 2 through 4 before you overwrite-store the Party preset.

#### 7. Check the DCP settings.

Verify that the DCP operates as you expect. Check these for each preset.

When you have finished making all settings, save the project and switch MTX-MRX Editor offline.

#### This completes the settings for example 1.

# Example 2) High audio quality system with XMV and YDIF connections (digital connections)

## Using the Device Configuration Wizard to create your device setup

You will use MTX-MRX Editor's wizard to create your device setup before actually connecting your equipment. After you've made basic settings, you'll be able to print information about system cabling and ID numbers. Use the following procedure to make basic settings.

## **1.** Type a name for the MTX/MRX System you'll be constructing, and click [Next>].

Device Configuration Wizard			×
System #1	a ()		
The Device Configuration Wizard guides you through the initial configuration of your system design, and configures device settings. Select and name a new configuration, edit an existing configuration, or clear an existing configuration.		a ( mail	
SYSTEM NAME System #1			
New			
Edit Configuration Changing the number of devices, type of devices and/or connection will initialize the settings of Word Clock and	Dante.		
C Go to Mini-YGDAI Card and Controller Setup.			
Clear			
	Cancel <	Back Next >	Finish

## **2.** Specify the number of units that will be connected in your MTX/MRX System, and click [Next>].

Specify "1" as the number of MTX3 units in "YDIF Connected," and specify "1" as the number of XMV4280 units to be connected.

Configuration Wizard			
MTX XMV digital system			
	onnected via YDIF, Analog, and/or Dante. ist to make up a system. After changing the C	Configuration, re-store the existing Preset d	
YDIF Connected	ANALOG Connected	DANTE Connected	
DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number
MRX7-D	XMV4140 0	PGM1 ^	MCP1 ^
MTX5-D 0 ▼	xmv4280 □ · · · · · · · · · · · · · · · · · · ·	XMV4140−D 0 ▼	
MTX3	XMV8140	XMV4280-D 0	
EX18 [ 0 ▼ ≡	XMV8280	XMV8140-D 0	
XMV4140	XMV4140-D	XMV8280-D 0	
	XMV4280-D		
XMV8140	XMV8140-D		
XMV8280	XMV8280-D 0	-	-
Number of Assigned Devices: •MTX/MRX Total: 1 / 4 •YDIF Total: 2 /	/ 8	·MTX/MRX/XMV/EXio: 2/20 ·PGM	1/MCP1: 0 / 20 · Project Total: 2 / 80
		Cancel	< Back Next > Finish

#### **3.** Specify the UNIT ID of each device, and click [Next>].

Unless you have specific reasons for doing so, use the UNIT ID that is assigned. In this example, set the XMV's UNIT ID to 1A so that we can explain how to change the UNIT ID.

Configuration Wizard			<b>—</b>
MTX XMV digital system		8	
	hysical IDs to the configuration diagram lat		
YDIF Connected DEVICE TYPE UNIT ID	ANALOG Connected DEVICE TYPE UNIT ID	DANTE Connected DEVICE TYPE UNIT ID	DEVICE TYPE Number
MTX3 01 XHV4280 1A •			
YDIF MODE DISTRIBUTION Y			
		Cancel	< Back Next > Finish

#### 4. Set the [UNIT ID] rotary switch and DIP switch of the MTX and XMV.

You will set the computer's IP address after completing the wizard, in "Specifying the computer's TCP/IP address." If the MTX and XMV are not nearby, you can set them during the step "Connecting the equipment."



Make the following settings.



#### NOTE

Use the DIP switch to specify the upper digit of the UNIT ID, and use the [UNIT ID] rotary switch to specify the lower digit. For details, refer to the owner's manual of each unit.



5. When you have finished setting the [UNIT ID] rotary switch and DIP switch of the MTX and the XMV, click [Next>].

#### 6. Verify that the MTX and XMV are shown in the screen, and click [Next>].

Since there is only one MTX unit and one XMV unit, there's no need to change the order.

Configuration Wizard					×
MTX XMV digital system					
The order of the YDIF connected devices		ng.			
YDIF Connected DEVICE	ANALOG Connected DEVICE	DEVICE	DANTE Connected	DEVICE	
01 MTX3		*	ŕ		*
D XON )					
		Ŧ			+
Refresh			Cancel	< Back Next >	Finish

**7.** Choose the model of DCP that is connected to the MTX, enter a device name, and click [Finish].

Since four DCP1V4S units will be connected, make settings for four units.

🐻 Device	Confi	iguration Wizard						<b>×</b>
Assign a	and na	tal system ime the Digital Control Pane using DCH8 is also possibl	Is connected to each MTX or MRX. e.				0	
DEVIC	E 0	11 MTX3 🔻						
ID		MODEL	Name					
0	5	DCP1V4S-US/EU	Hall A					
1	10	DCP1V4S-US/EU 🔻	Hall B					
2	5	DCP1V4S-US/EU 🔻	Entrance					
3	10	DCP1V4S-US/EU 🔻	Kitchen					
4		None						
5		None 🔻						
6		None 🔻						
7		None 🔻		-				
					Can	cel < Back	Next >	Finish

8. When you see the dialog box "Display the configuration diagram? The diagram can also be printed." click [Yes].



A cabling diagram will appear. If you want, click [Print] to print the diagram. To close the screen, click [Close].

Configuration [	Diagram							
Ethernet		nputer and devices to an ernet cables.	Ethernet ON Imp	portant - Always set DC m each MTX or MRX (or	P DIP switch 4 (termin nly set for one DCP per	ation) to the ON position fo MTX or MRX).	r the longest DCP cable rur	1
MTX XMV digital s	ystem		This is an entry in			4114.00	DANTE	
DEVICE		Digital Control Panel	ID=2 ID=3	ID=4 ID=5	ID=6 ID=7	ANALOG	DANTE	
01 MTX3	ज्रिक 🗳	Ö Ö	Ö Ö					
1A XMV4280								
						[	>>Page2 Print	Close

Set the DIP switches of the DCP units as shown in the "Digital Control Panel" section of the schematic diagram. For the last DCP (ID=3), set DIP switch 4 ON (upward).



#### NOTE

If you want to view the cabling diagram again, do so by choosing [File] menu  $\rightarrow$  [Print Configuration Diagram].

If you want to use the Device Configuration Wizard to change the device configuration, click the [Device Config] button in the Project screen.



## Making preliminary settings in MTX-MRX Editor

Here's how to make detailed MTX/MRX System settings in MTX-MRX Editor. When you've finished making settings, you should save them by clicking [File] menu, then [Save].

#### NOTE

The "User Account Control" dialog box may appear. Click [Continue] or [Yes].

## Making EXT. I/O settings

Here you'll make settings for inputting digital audio into the XMV.

Move to the System screen by clicking the tab of the system name you specified in step 1 of "Using the Device Configuration Wizard to create your device setup."

Project	MTX XM	IV digital sys	tem	
01 MTX	}			
MAIN	INPUT	MATRIX	ZONE	I

#### **1.** Click the [EXT. I/O] button.

The "EXT. I/O" screen will appear, allowing you to make input/output settings for the external devices. Since you'll be making settings for YDIF 1–8, there's no need to switch screens; simply make the settings in this screen.



2. Verify that for the MTX with UNIT ID = 01, the buttons located below YDIF 1 through YDIF 4 are set to OUT1 (OUTPUT 1) through OUT 4 (OUTPUT 4) respectively.

If the settings are different, click the button and change the setting.

Channel Select
YDIF: 1 +
Thru
INPUT CHANNEL(POST ON)
STEREO INPUT CHANNEL(POST ON)
1L 1R 2L 2R 3L 3R
ZONE OUT
OUTPUT
Close

## **3.** Click the [EDIT] button.

Now you can specify the inputs from the XMV unit's YDIF 1-8.


### 4. Click the XMV4280's output routing select button for YDIF 1.

The "YDIF Out Patch" dialog box will appear.

YDIF Out: 1	•	Input Source YDIF	ANALOG DANTE
1A XMV4280	A	B C D	
		r mode, outputs of B/D/F/H channe	

# 5. For CHANNEL, click [A] button.

The screen indicates that the YDIF 1 signal is output to CH A of the XMV.

TX-MRX Editor				
<u>File System Controller About</u>				
🗋 📤 🐁	EDIT	Image:	01 02 03 04 Online	e Offline 🖊
Project System #1				
01 MTX3		EXT. I/0	XMV	
YDIF 1-8 YDIF 9-16 ANALOG	DANTE			
EXT.I/O	IF 2 YDIF 3	YDIF 4 YDIF 5	YDIF 6 YDIF 7	YDIF 8
01 MTX3		0 0		
30 XMV4280				
	_			
	_       .			
	_       .			
	_			

6. Change the output destination in the [YDIF Out:] list box, to assign YDIF 2 through YDIF 4 to CH B through CH D of the XMV and then click [Close] button.

MTX-MRX Editor				
<u>File System Controller A</u>	bout			
🗋 📤 🔁	EDIT	Image:		ine Offline 🖋
Project System #1				
01 MTX3		EXT. I/O	XMV	
	NALOG DANTE			
EXT,I/O	YDIF 2 YDIF 3	YDIF 4 YDIF 5	YDIF 6 YDIF 7	YDIF 8
01 MTX3	o o	<b>Ö</b>	o o	Ŏ
30 XMV4280				1
	СН В 🗧 СН С 🗲			
				1 - 1 H

**7.** Click [EDIT] button to lock the settings.



# Specifying the MTX configuration

Here you'll specify how the MTX's inputs and outputs will be handled.

On the [System] menu, click [MTX Configuration] to open the "MTX Configuration" dialog box.

The default settings are shown in the screen below. You can change them as necessary. In this example, we'll use the default settings without change.

INPUT PORT SETUP		INPUT CHANNEL	SETUP		
	SIGNAL TYPE		SIGNAL TYPE		SIGNAL TYPE
ST IN 1L/1R	STEREO	▼ 1/2	MONO x 2	▼ STIN1	STEREO -
ST IN 2L/2R	STEREO	▼ 3/4	MONO x 2	<ul> <li>STIN2</li> </ul>	STEREO -
SD IN L/R	STEREO	▼ 5/6	MONO x 2	<ul> <li>STIN3</li> </ul>	STEREO -
		7/8	MONO x 2	<ul> <li>▼ 17/18</li> </ul>	MONO x 2 👻
		9/10	MONO x 2	▼ 19/20	MONO x 2 -
		11/12	MONO x 2	• 21/22	MONO x 2 👻
		13/14	MONO x 2	- 23/24	MONO x 2 👻
		15/16	MONO x 2	•	

# Settings in the "MAIN" screen

In the "MAIN" screen you can make overall settings for each channel. Click the [01 MTX3] button to access the MTX "MAIN" screen. For details on each parameter, refer to "MTX-MRX Editor User Guide." Here you'll make the following settings.

- Channel name
- Channel on/off
- Gain and phantom power
- (As necessary) EQ settings



### INPUT settings



### Port select button

When you click this, the "Input Patch" dialog box will open. In this example we are using the default settings, but if you want to switch to a different input port of the MTX, click this button, choose the desired input port, and then click the [Close] button.

# Port / External Device parameter access button

This button lets you adjust the gain and turn phantom power on/off. When you click the button, a popup window will appear, allowing you to adjust the gain and turn phantom power on/off. Make the desired settings, and then in the upper right, click × to close



the popup window. The appropriate gain level will depend on the devices that are connected, so set the level appropriately for your devices.

For channels 1 through 8, the gain is set to 30 dB by default. Because condenser microphones are connected to CH1 and 2, leave the gain at 30 dB and turn phantom power on. Because wireless microphones are connected to CH3 and 4, lower the gain to 0 dB.

### EQ / HPF (High Pass Filter)

Click this to switch to the "CHANNEL EDIT" screen. Adjust the EQ and HPF appropriately for the microphone you're using. For ST IN, only EQ is available. When you want to return to the "MAIN" screen, click the [MAIN] button.

### FBS (Feedback suppressor)

FBS is provided on input channels 1 through 4. We recommend that microphone inputs, and particularly movable microphones such as wireless microphones, be connected to channels 1 through 4. When you click here, you will switch to the FBS setting screen.

When you want to return to the "MAIN" screen, click the [MAIN] button. For details on FBS settings, refer to "MTX-MRX Editor User Guide."

### [ON] button

This turns the channel on/off. You should turn off unused channels.

### Fader

This adjusts the input level. Leave the fader at -∞ until the system goes online.

### **Channel name**

You can double-click this to edit the name.

In this example, names have been assigned as follows.

CH1	Entrance
CH2	Kitchen
СНЗ	W.Mic1
CH4	W.Mic2
STIN1	CD Player
STIN2	BGM
SDIN	SD Player

### Example 2) High audio quality system with XMV and YDIF connections (digital connections)

## • OUTPUT settings



### Port select button

Click this to open the "Output Patch" dialog box. In this example we will use the default settings, but if you want to use a different output port of the MTX, click this button, choose the desired output port, and then click the [Close] button.

### Port / External Device parameter access button

When you click this button, a popup window will appear, allowing you to set the MTX's output connector parameters and the parameters of the external device associated with the channel. Verify that GAIN is set to 0.0 dB.

In this example, the MTX output parameters are above, and the XMV parameters are below. Put the system online before you edit the settings of these parameters.

When you click this button, the MTX output connector parameter edit screen will appear as a popup. Verify that GAIN is set to 0.0 dB.

### **DELAY / Room EQ**

Click this to move to a screen where you can set delay and room EQ.

### Speaker processor

Click this to move to the "CHANNEL EDIT" screen. Make the appropriate settings for the speakers that will be connected.

#### NOTE

The pre-installed library contains speaker processor files that are appropriate for the response of various speakers. By using these files you can make speaker processor settings easily.

### [ON] button

This button turns the channel on/off. Turn off unused channels.

### Fader

This adjusts the output level.

### **Channel name**

You can double-click this to edit the name.

In this example, names have been assigned as follows.

OUT1	Hall A
OUT2	Hall B
OUT3	Entrance
OUT4	Kitchen



### Settings in the "MATRIX" screen

Here you can specify which input channel will be sent to which zone. For details on send level and other parameters, refer to "MTX-MRX Editor User Guide."



In this example, make the settings shown in the above illustration. Clicking a cross point (a square area) or dragging cross points will switch it on/off. If you right-click on a cross point, a context menu appears. You can select [All OFF] to turn off all cross points. The cross point shows the send level as the amount of green.

With the settings shown here, the two microphones in hall A (CH3 and 4) are broadcast only to hall A. In addition, CD/ BGM/SD (STIN1–3) are being broadcast to the entire building. The microphone in the entrance (CH1) is assigned to be broadcast to the entire building in the event of an emergency, and is therefore assigned in the "ZONE" screen

(described next) as 1<sup>st</sup> PRIORITY. If channel 1 is turned on in the matrix, the signal from the matrix (attenuated) and the signal from Priority will be combined and output. Similarly, the microphone in the kitchen (CH2) is assigned as 2<sup>nd</sup> PRIORITY that is valid only in zone 4 (Kitchen), and therefore is not specified in the matrix.

For the input channel faders in the lower left of the screen, the grayed-out faders show input levels, and the other faders show input channel send levels. Grayed-out faders cannot be operated in this screen.



Priority signal flow

# Settings in the "ZONE" screen

In the "ZONE" screen you can make Priority DUCKER settings. The Priority Ducker function temporarily attenuates the inputs from other channels when audio is input from a specified input channel, ensuring that the audio from the specified input channel will be broadcast clearly. Priority is given in the order of "1<sup>st</sup> PRIORITY > 2<sup>nd</sup> PRIORITY > Matrix Out signals."



In this example, we assume that the microphone in the entrance (CH1) is used for broadcasting to the entire building. Therefore, we select CH1 as the 1<sup>st</sup> PRIORITY SOURCE for zone 1 through zone 4, and click the [ON] button located at the right of 1<sup>st</sup> PRIORITY to make it light. We select the kitchen microphone (CH2) as the 2<sup>nd</sup> PRIORITY SOURCE only for zone 4 (Kitchen), and click the [ON] button located at the right of 2<sup>nd</sup> PRIORITY to make it light. Because there's no need to make settings for zones 5 through 8, make sure that the [ON] button at the right of 1<sup>st</sup> PRIORITY are unlit (turned off).

Use the ZONE select buttons to switch the zone.

For details on each parameter, refer to "MTX-MRX Editor User Guide."

# Settings in the "ROUTER" screen

In the "ROUTER" screen you can assign zones to outputs. In this example we will leave the default settings unchanged, since the assignments are ZONE1=OUTPUT 1, ZONE2=OUTPUT 2, ZONE3=OUTPUT 3, and ZONE4=OUTPUT 4.



# Digital Control Panel (DCP) settings

Here's how to assign functions to the DCP that is installed in each zone. To make these settings, choose the [Controller] menu item [Digital Control Panel].

👅 Digital Control Panel						×
Library	01 MTX3 🔻 0 H	Iall A 🔻				
Save Load		Parameter Assign	Dimmer & I	lock		
No. Name	DCP1V4S-US/EU	Switch				
01 [No Data]	1 - 2	FUN	ICTION	DEVICE	PARAMETER	
02 [No Data]	3 - 4	1 No Assign				
03 [No Data] 04 [No Data]		I Norrosign				
05 [No Data]		2 No Assign	l.			
06 [No Data]						
07 [No Data]		3 No Assign	í.			
08 [No Data]						
09 [No Data]		4 No Assign				
10 [No Data]						
11 [No Data] 12 [No Data]		Knob				
13 [No Data]		FUN	ICTION	DEVICE	PARAMETER	
14 [No Data]		1 No Assign				
15 [No Data]		I NO ASSIGN				
16 [No Data]						
17 [No Data]						
18 [No Data] 19 [No Data]						
20 [No Data]						
21 [No Data]						
Copy Paste Clear		L				
To apply the settings, associ and then recall the Preset.	ate the Library with a F	Preset in the Preset dialog,			⑦ □	Close

Here we will use the example of the DCP located in Hall A of the Preset 01 Basic library.

Use the drop down list at the top of the screen to select the DCP for which you want to make settings.

When you click one of the numbered buttons, a "Settings" dialog box will appear; assign parameters to the controls. If you assigned [SD Song Select & Play], enter the name of the file that you want to play.

When you've made the assignments, click to select "01 [No data]" and then click the [Save] button. In the "Save Library" dialog box, change the name to "Basic" and then click the [OK] button.

🐻 Dig	gital Control Panel							<b>-</b> ×-
Libra	агу	01 MTX3 🔻 0 H	all A 🔻					
<u></u>	ave Load		Parameter As	sign	Dimmer & L	.ock		$\equiv$
No.	Name	DCP1V4S-US/EU	Switch					
01	Basic 🔺			FUN	CTION	DEVICE	PARAMETER	
02	[No Data]	3 4		Preset Red	all		02 [No Data]	
03	[No Data] [No Data]			1100011100			oz (no bata)	
04	[No Data]		2	No Assign				
06	[No Data]							
07	[No Data]		3	SD Song S	elect & Play	01 MTX3		
08	[No Data]			SD Song P		01 MTX3		
09	[No Data]		4	SD Song P	ause	0110173		
10	[No Data]		L					
11	[No Data] [No Data]		Knob					
13	[No Data]			FUN	CTION	DEVICE	PARAMETER	
14	[No Data]		1	ZONE Out	lovel	01 MTX3	ZONE 1 [-∞dB - 10.0dB]	
15	[No Data]			ZONE OUL	Level	0110173	2014E 1 _ [ dB - 10.0dB ]	
16	[No Data]							
17	[No Data]							
18	[No Data]							
19 20	[No Data] [No Data]							
21	[No Data]							
	file paral							
Cor	oy <u>P</u> aste Cl <u>e</u> ar							
	pply the settings, associa then recall the Preset.	ate the Library with a P	reset in the Pre	set dialog,			•	Close

In Basic, switch 1 is the preset select switch for the Party settings. Switches 3 and 4 control pause/resume for playback of audio sources on the SD memory card. The knob controls the output level of zone 1.

### Example 2) High audio quality system with XMV and YDIF connections (digital connections)

Next click the [Copy] button, and then click "02 [No Data]" to select the second library item. With this selected, click the [Paste] button. The library item you created as "Basic" will be copied.

🐻 Dig	gital Control Panel							<b>×</b>
Libra	ary	01 MTX3 🔻 0 H	all A 🔹					
<u>S</u>	ave Load		Parameter A	ssign	Dimmer & I	Lock		$\equiv$
No.	Name	DCP1V4S-US/EU	Switch					
01	Basic 🔺			FUN	NCTION	DEVICE	PARAMETER	
02	Basic	3 4		Preset Re	coll		02 [No Data]	
03	[No Data]			FleserRe	call		02 [NO Data]	
04	[No Data]		2	No Assign	1			
06	[No Data] [No Data]							
07	[No Data]		3	SD Song	Select & Play	01 MTX3		
08	[No Data]							
09	[No Data]		4	SD Song I	Pause	01 MTX3		
10	[No Data]							
11	[No Data]		Knob					
12	[No Data]			ELIN	ICTION	DEVICE	PARAMETER	
13	[No Data]							
15	[No Data]		1	ZONE Out	Level	01 MTX3	ZONE 1 _ [-∞dB - 10.0dB ]	
16	[No Data]		87					
17	[No Data]							
18	[No Data]							
19	[No Data]							
20	[No Data]							
21	[No Data]							
Con	Data Class		<u>.</u>					}
Cop								
	pply the settings, associa then recall the Preset.	ate the Library with a P	reset in the Pre	eset dialog,			0	Close

After changing the PARAMETER of switch 1 to "01," double-click "Basic" in "02 Basic" located in the left of the screen, and change the name of the library item to "Party." (After you've entered the name, press the <Enter> key to confirm the name change.) After making this change, click the [Save] button to overwrite-save the library item.

👸 Digital Control Panel				<b>—</b> ×
Library 01 MTX	• O Hall A •			
Save Load	Parameter Assign	Dimmer & Lock	(	=
No. Name DCP1V4	S-US/EU Switch		0.1	
01 Basic	F	UNCTION	DEVICE	PARAMETER
02 Party	1 Preset F	Recall	01 [No D	ata]
04 [No Data]				
05 [No Data]	2 No Assi	gn		
06 [No Data]	3 SD Son	g Select & Play 01	МТХЗ	
07 [No Data]	3 30 301	g Select & Flay 01	MIND	
08 [No Data] = 09 [No Data]	4 SD Son	g Pause 01	MTX3	
10 [No Data]				
11 [No Data]	Knob			}
12 [No Data]				
13 [No Data]	F	UNCTION	DEVICE	PARAMETER
14 [No Data]	1 ZONE C	Out Level 01	MTX3 ZONE 1	_[-∞dB - 10.0dB]
15 [No Data] 16 [No Data]				
17 [No Data]				
18 [No Data]				
19 [No Data]				
20 [No Data]				
21 [No Data]				
Copy Paste Clear	<u></u>			}
To apply the settings, associate the Libr	ary with a Preset in the Preset dialo	g,		Close
and then recall the Preset.				

In Party, switch 1 is the preset select switch for the Basic settings. Other settings are the same as for Basic.

### Example 2) High audio quality system with XMV and YDIF connections (digital connections)

Input Ch Level (CH1)

Example settings for o	ther DCP unit	ts				
ID of the DCP	1 (H	all B)	2 (Ent	rance)	3 (Kit	chen)
Library name	Basic	Party	Basic	Party	Basic	Party
Switch 1			Input Ch	ON (CH1)	Input Ch (	ON (CH2)
Switch 2	Same as ID=0					
Switch 3	(Hall A)	Same as ID=0	No A	ssign	No A	ssign
Switch 4		(Hall A)				
Knob 1	ZONE OUT		Input Ch I		Input Ch L	

#### anla aattinga far atha Exar

### Tips

Knob 1

By clicking the menu button ( \_\_\_\_\_), you can copy and paste the Parameter Assign and Dimmer & Lock settings of the displayed library item. By copying the ID=0 settings to ID=1, you can speed up your workflow. Similarly, you can make Basic settings for ID=2 and then copy them to Party, or copy them to ID=4.

## Storing a preset

Now we'll store the settings we've made up to this point as a preset. By recalling presets from the MTX itself or from the DCP, you can switch the settings as appropriate for various situations. To store or recall a preset, click the camera icon in the upper part of

Level (ZONE2)

MTX-MRX Editor.

|--|

Input Ch Level (CH2)

When you click the camera icon, the "Preset" dialog box will appear. You can create up to 50 presets.

Click the preset number that you want to store; the line will be selected. Then click the [Store] button, specify the preset name, and click the [OK] button.

Double-click a location where the DCP column indicates "No Assign," and choose a library that you specified on the DCP.

👅 Settings (Preset0	1)								×
DCP Library				Wire	less DCP	Library			
Assign					ssign				
01 Basic				01					
02 Party 03			=	02 03					=
04				03					
05				05					
06				06					
07				07					
08			-	80					+
09				09					
GPI OUT							1.2		
DEVICE	1	2	3	4	5	6	7	8	
01 MTX3	Ignore	Ignore	Ignore	Ignore					
- SD Song Select 8	Play								
DEVICE		SC	NG		PLAY	MODE			
01 MTX3	No Assi	gn							
<u></u>							OK	Can	cel

Pres	set									
ŝ	<u>S</u> tore	<u>R</u> ec	all							Recall <u>F</u> ilter
d de	No.	Name				MTX3	DCP	Wireless DCP	GPI / SD PLAY	
	01	Basic			1	ALL	01 Basic	No Assign	details	
	02	[No Data]								
	03	[No Data]								
	04	[No Data]								
	05	[No Data]								
	06	[No Data]								
	07	[No Data]								
	08	[No Data]								
	09	[No Data]								
	10	[No Data]								
	11	[No Data]								
	12	[No Data]								
	13	[No Data]								
	14	[No Data]								
	15	[No Data]								
	16	[No Data]								
	17	[No Data]								
	18	[No Data]								
	19	[No Data]								
	20	[No Data]								
Co	DV	Paste	Clear	]			ALL: Recall all pa	arameters		🔗 Preset Lin
			ergency Recall	,			🛯 : Recall parti	al parameters		
	_			_						
DFF		1 🔻 🖸	FF 1 T							
										Close

Up to this point, you made separate settings for zone 1 and zone 2. However in some cases, such as a party, you might want to remove the boundary between zone 1 and zone 2 so that they can be a single meeting area. In this case, make settings in the "ROUTER" screen to route zone 1 to output 2, so that zone 1 and zone 2 can be used as a single space.



If you store these settings as a different preset, you'll be able to easily switch to settings suitable for a party. If you use Recall Filter to specify that only ROUTER and DCP settings are recalled, other settings such as gain will remain at the Basic settings even if you recall a party preset. For External I/O as well, press the [All Off] button so that all settings are carried over.

Dreset							<b>—</b>
<u>S</u> tore	<u>R</u> ecall						Exit Recall <u>F</u> ilter
🖉 No.	Name		MTX3	DCP	Wireless DCP	GPI / SD PLAY	
01	Basic		ALL	Basic	No Assign	details	
02	Party		ALL	Party	No Assign	details	
03	[No Data]						
04	[No Data]						-
	Al Off INPUT/LEVEL 1 ST1 3 ST2 4 ST2	9 10 11 12 13 14 15 18 tomixer in the Pres		AD ZONE 1 2 3 4 5 0 0 7/8 1 2	ZONE	The blue buttons are re ELOUTPUT 1 2 3 4 5 5 0 7 8 EXT. I/O Y	DCP 0 1 2 3 4 5 6 7

This completes settings in the offline state. Save the settings once again.

# **Connecting the equipment**

After you've rack-mounted the MTX and your other equipment, connect the MTX and the other equipment as shown below. If you've copied audio sources to an SD memory card, insert the card into the MTX now.



To connect the MTX to your computer, use a CAT5e or higher cable with all eight pins connected.

# **Powering-on the MTX**

Turn on the power of the MTX. Turn off the amplifier before you power-off the MTX.

# **Powering-on the amp**

On the rear panel of the XMV, set the [SPEAKERS] DIP switch, and then turn on the power of the amps (XMV). To prevent unwanted sound from being output, we recommend that you turn down the attenuator settings of all channels on the amp itself before you turn it on.

To change the XMV attenuator setting, press the button of the appropriate channel and then turn the encoder.

### NOTE

- With the factory settings, the XMV's attenuators are set to the lowest value.
- For more about the [SPEAKERS] DIP switch, refer to the XMV owner's manual.

# Specifying the computer's TCP/IP address

To allow the MTX and the computer to communicate, specify the computer's TCP/IP as follows.

1. On the [System] menu, click [Network Setup].

The "Network Setup" dialog box will appear.

2. Click [Open Network Connection].

"Network Connections" will appear.

- **3.** Right-click the adapter to which the MTX is connected, and choose [Properties]. The "Local Area Connection Properties" dialog box will appear.
- **4.** Choose [Internet Protocol Version 4 (TCP/IPv4)], and then click [Properties]. The "Internet Protocol Version 4 (TCP/IPv4) Properties" dialog box will appear.
- 5. Click [Use the following IP address (S)].

# 6. In the [IP address] box, enter "192.168.0.253"; in the [Subnet mask] box, enter "255.255.255.0."

#### NOTE

The MTX3's IP address is set to "192.168.0.1," and the XMV's IP address is set to "192.168.0.26."

Internet Protocol Version 4 (TCP/I	IPv4) Properties
General	
	automatically if your network supports eed to ask your network administrator
Obtain an IP address autom	atically
Use the following IP address	5:
IP address:	192.168.0.253
Subnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server address a	automatically
• Use the following DNS serve	er addresses:
Preferred DNS server:	
Alternate DNS server:	
🔲 Validate settings upon exit	Ad <u>v</u> anced
	OK Cancel

# **7.** Click [OK].

#### NOTE

In some cases, Windows firewall may block MTX-MRX Editor when you make this setting. Select the [Private Network] check box, and click [Allow Access].

# **Taking MTX-MRX Editor online**

In the upper right of MTX-MRX Editor, click the [Online] button. When the unit has successfully come online, the indicator 1 at the left will light blue.



When the "Synchronization" dialog box appears, select "To Device," and click the [OK] button. When the indication in the dialog box has switched, select the system that you want to place online, and click the [Online] button. The project created in MTX-MRX Editor will be sent to the MTX.

			Synchronization			
			DIRECTION: To Dev	vice		
			SYSTEM	STATUS	PROGRESS	
		.	MTX XMV digita.	OFFLINE		details
Synchronization						
To Device	From Device		No Assign			details
			No Assign	LOST		details
			No Assign	LOST		details
			System Message			
	OK Cancel		Select the systems to	go online and	d then click [Online] button.	
					Online	Cancel

# **Making XMV settings**

If necessary, use the XMV's front panel to make settings such as the high pass filter. For more about the settings you can make on the XMV, refer to the XMV owner's manual.

# Verifying that the settings were applied

The main items to verify are listed below. For details on each parameter setting, refer to "MTX-MRX Editor User Guide."

### **1.** Recall the Basic preset.

**2.** Using the oscillator in the "ROUTER" screen, adjust the output level.

Adjust the amp's attenuator value to an appropriate level.

### 3. Specify the gain from the microphone.

You can set the gain in the dialog box that appears when you press the parameter recall button for a port or external device of an input channel in the "MAIN" screen. Watch the input meter, and adjust the setting appropriately.

### 4. Set the input levels and output levels.

Using the input/output faders in the "MAIN" screen, adjust the levels. As necessary, apply the output limiter in the "CHANNEL EDIT" screen to prevent your speakers from being damaged. Adjust the amp attenuator values to obtain the optimal S/N ratio. In addition, make FBS settings as necessary.

### **5.** Store the Basic preset.

Store by overwriting the previously-specified content.

### 6. Recall the Party preset.

Verify that the audio from the wireless microphone is also heard in Hall B. If you're not using Recall Filter, perform steps 2 through 4 before you overwrite-store the Party preset.

### 7. Check the DCP settings.

Verify that the DCP operates as you expect. Check these for each preset.

When you have finished making all settings, save the project and switch MTX-MRX Editor offline.

### This completes the settings for example 2.

# Example 3) Using cascade mode to add MTX input channels (analog connection)

# Using the Device Configuration Wizard to create your device setup

You will use MTX-MRX Editor's wizard to create your device setup before actually connecting your equipment. After you've made basic settings, you'll be able to print information about system cabling and ID numbers. Use the following procedure to make basic settings.

# **1.** Type a name for the MTX/MRX System you'll be constructing, and click [Next>].

Device Configuration Wizard			×
System #1		8	
The Device Configuration Wizard guides you through the initial configuration of your system design, and configures device settings. Select and name a new configuration, edit an existing configuration, or clear an existing configuration.		0	
SYSTEM NAME System #1			
New			
Edit Configuration Changing the number of devices, type of devices and/or connection will initialize the settings of Word Clock and Dan	nte.		
O Go to Mini-YGDAI Card and Controller Setup.			
© Clear			
	ncel < Bac	ck Next >	Finish

# 2. Specify the number of units that will be connected in your MTX/MRX System, and click [Next>].

Specify "2" as the number of "YDIF Connected" MTX3 units, specify "1" as the number of "ANALOG Connected" XMV4280, and specify "1" as the number of MCP1.

Device Configuration Wizard			×
MTX3 MCP1 cascade example		a	
	connected via YDIF, Analog, and/or Dante. ist to make up a system. After changing the C se store the existing PRESET again.	Configuration, re-store the existing Preset o	lata.
YDIF Connected	ANALOG Connected	DANTE Connected	
DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number
MRX7-D 0	XMV4140 0 •	PGM1 ^	MCP1
MTX5-D 0 -	xmv4280	XMV4140-D 0 ▼	
MTX3	XMV8140 0 -	XMV4280−D 0 ▼	
EX18	XMV8280 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	XMV8140-D 0	
XMV4140	XMV4140-D	XMV8280-D 0	
XMV4280	XMV4280−D 0 ▼		
XMV8140	XMV8140-D		
XMV8280	XMV8280-D 0 •	-	
Number of Assigned Devices: •MTX/MRX Total: 2 / 4 •YDIF Total: 2	/8	·MTX/MRX/XMV/EXio: 3 / 20 ·PGM	1/MCP1: 1/20 ·Project Total: 4/80
		Cancel	< Back Next > Finish

### **3.** Specify the YDIF MODE to CASCADE, and then click [Next>].

A dialog box will appear when you change this to CASCADE; click [OK]. Unless you have specific reasons for doing so, use the UNIT ID that is assigned. In this example, set the XMV's UNIT ID to 1A so that we can explain how to change the UNIT ID.

🐻 Device Configuration Wizard			×
MTX3 MCP1 cascade example		8	
	physical IDs to the configuration diagram lat		
YDIF Connected DEVICE TYPE UNIT ID	ANALOG Connected DEVICE TYPE UNIT ID	DANTE Connected DEVICE TYPE UNIT ID	DEVICE TYPE Number
01 MTX3 02 MTX3 02 VTX3 02 VTX3	1A XMV4280	^	90 MCP1 90 •
	-	-	
YDIF MODE CASCADE			
		Cancel	< Back Next > Finish

### 4. Set the [UNIT ID] rotary switch and DIP switch of the MTX and XMV.

You will set the computer's IP address after completing the wizard, in "Specifying the computer's TCP/IP address." If the MTX and XMV are not nearby, you can set them during the step "Connecting the equipment." You set the MCP1's UNIT ID during the step "Connecting the equipment."



Make the following settings.



### NOTE

Use the DIP switch to specify the upper digit of the UNIT ID, and use the [UNIT ID] rotary switch to specify the lower digit. For details, refer to the owner's manual of each unit.

UNIT ID = 1 A Lower digit: specify using the rotary switch Upper digit: specify using DIP switch 1–3

5. When you have finished setting the [UNIT ID] rotary switch and DIP switch of the MTX and the XMV, click [Next>].

6. Verify that the MTX, XMV, and MCP1 are shown in the screen, and click [Next>].

Configuration Wizard						
MTX3 MCP1 cascade example The order of the YDIF connected devices	can be changed by dragging and dropp	oing.			1.0 1.0 1.0	
					10	A
YDIF Connected DEVICE	ANALOG Connected DEVICE		DEVICE	DANTE Connected		DEVICE
01 MTX3	1A XMV4280	^	DEVICE			90 MCP1
02 MTX3		-				
		Ŧ			-	-
Refresh				Cancel	I	< Back Next > Finish

**7.** Choose the model of DCP that is connected to the MTX, enter a device name, and click [Finish].

In this example we are not using a DCP, so leave the settings as they are.

To Device Configuration Wizard	×
MTX3+MCP1 cascade example Assign and name the Digital Control Panels connected to each MTX or MRX. Star topology using DCH8 is also possible.	
DEVICE 01 MTX3 •	
ID MODEL Name	
0 None	A
1 None	
2 None	
3 None	
4 None	
5 None	
6 None	
7 None •	τ
	Cancel < Back Next > Finish

8. When you see the dialog box "Display the configuration diagram? The diagram can also be printed." click [Yes].



A cabling diagram will appear. If you want, click [Print] to print the diagram. To close the screen, click [Close].

Configuration [	Diagram							×
Ethernet	switch using Eth	nputer and devices to an ernet cables.	Ethernet	oortant - Always set D n each MTX or MRX (	CP DIP switch 4 (termin only set for one DCP pe	nation) to the ON position r MTX or MRX).	n for the longest DCP cab	e run
MTX3 MCP1 casca	ade example							
DEVICE		Digital Control Panel	ID=2 ID=3	ID=4 ID=5	ID=6 ID=7	ANALOG	DANTE	
01 MTX3		Ö				1A XMV4280		
02 MTX3								
							>>Page2 Print	Close

### NOTE

If you want to view the cabling diagram again, do so by choosing [File] menu  $\rightarrow$  [Print Configuration Diagram].

If you want to use the Device Configuration Wizard to change the device configuration, click the [Device Config] button in the Project screen.



# Making preliminary settings in MTX-MRX Editor

Here's how to make detailed MTX/MRX System settings in MTX-MRX Editor. When you've finished making settings, you should save them by clicking [File] menu, then [Save].

#### NOTE

The "User Account Control" dialog box may appear. Click [Continue] or [Yes].

# Making EXT. I/O settings

Here you'll make settings for inputting analog audio into the XMV.

Move to the System screen by clicking the tab of the system name you specified in step 1 of "Using the Device Configuration Wizard to create your device setup."

If you're using an amp other than the XMV, proceed from "Specifying the MTX configuration."

Project	М	MTX3 cascade example								
01 MTX	01 MTX3 02 MTX3									
MAIN	INP	UT	MATRIX	ZONE						

## **1.** Click the [EXT. I/O] button.

The output setting screen will appear.

TX-MRX Editor				- • •
<u>File System Controller About</u>				
		Image:		Online Offline 🖌
Project MTX3 cascade system				
01 MTX3 02 MTX3		EXT. I/O	×	MV
YDIF 1-8 YDIF 9-16 ANALOG DANT	E			
YDIF 1 YDIF 2	YDIF 3	YDIF 4 YDIF 5	YDIF 6 YDIF	7 YDIF 8
		MATRIX 4	MATRIX 6 MATRIX 7	
02 MTX3	MATRIX 3		MATRIX 6 MATRIX 7	

# 2. Click the [ANALOG] button.

The MTX analog output setting screen will appear.

	MTX-MRX Editor						• 🔀				
<u>E</u> ile	e <u>S</u> ystem <u>C</u> ontroller <u>A</u>	bout									
	) 📤 🕾 📥 🗌	EDIT		- D D		Online Offlin	e 🖌				
	Project MTX3 case	ade example									
	01 MTX3 02	МТХЗ		EXT. 1/0		XMV					
N	YDIF 1-8 YDIF 9-16	ANALOG DANTE									
	01 MTX3			_							
	02 MTX3										
		Image: About       Image: About									
					Į	Į Į					
Stop 3											
Step 5											
Step 3											

# **3.** Click the button located below OUT1.

The "Line Out Patch" dialog box will appear.

Out: 1 🔹	Input Source YDIF	
1A XMV4280	B C D	
	ower mode, outputs of B/D/F/H channel	s will be disabled.
If the XMVs are set to Double P	ower mode, outputs of B/D/F/H channels	s will be disabled.

## **4.** Click the "CHANNEL" [A] button.

The screen will show that with these settings, analog output 1 of the ID=01 MTX is connected to the CH A analog input of the XMV.



5. Change the output destination in the [Out:] list box, to assign CH B through CH D of the XMV to OUT 2 through OUT 4, and then click the [Close] button.



# Specifying the MTX configuration

Here you'll specify how the MTX's inputs and outputs will be handled.

On the [System] menu, click [MTX Configuration] to open the "MTX Configuration" dialog box.

The default settings are shown in the screen below. You can change them as necessary. In this example, we'll use the default settings without change.

INPUT PORT SETUP		INPUT CHANNEL	SETUP						
	SIGNAL TYPE √IR STEREO ▼ 1/2 √2R STEREO ▼ 3/4	SIGNAL TYPE	SIGNAL TYPE						
ST IN 1L/1R	STEREO	▼ 1/2	MONO x 2	<ul> <li>STIN1</li> </ul>	STEREO 🔻				
ST IN 2L/2R	STEREO	▼ 3/4	MONO x 2	<ul> <li>STIN2</li> </ul>	STEREO 💌				
SD IN L/R	STEREO	▼ 5/6	MONO x 2	<ul> <li>STIN3</li> </ul>	STEREO -				
		7/8	MONO x 2	• 17/18	MONO x 2				
		9/10	MONO x 2	• 19/20	MONO x 2 🔹				
		11/12	MONO x 2	• 21/22	MONO x 2 👻				
		13/14	MONO x 2	23/24	MONO x 2 👻				
		15/16	MONO x 2	•					

# Settings in the "MAIN" screen

In the "MAIN" screen you can make overall settings for each channel. For details on each parameter, refer to "MTX-MRX Editor User Guide." You'll make these settings for both MTX units, UNIT ID=01 and UNIT ID=02. Here you'll make the following settings.

- Channel name
- Channel on/off
- Gain and phantom power
- (As necessary) EQ settings



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				cascade	system						0								
	01 MT>			02 MTX						EXT.	1/0					XMV			
				MAT		ZONE		DUTER	Ουτρυτ	EFFECT	DC A		I/0				_		
		+12 +12	CH3 IN3	CH4 IN4	CH5 IN5	CH6 IN6	CH7 IN7	CH8 IN8	STINI STIL STIR	STIN2	T2 R		OUT2	OUT3 OUT3	OUT4		OUT6 OUT6		OUT8
										0	12 R		0012		0014				
+4			+48V	+48V	+48	+48V	+48V	+48V											
9			Ø	Ø	Ø	Ø	Ø	Ø				DELAY	DELAY	DELAY	DELAY	DELAY	DELAY	DELAY	DELAY
H		PF C	HPF EQ	HPF EQ	HPF EQ	HPF EQ	HPF EQ	HPF EQ	EQ	EQ	1 II	Room	Room EQ	Room EQ	Room EQ	Room EQ	Room EQ	Room EQ	Room EQ
-7		2dB 0dB	-72dB 8dB	-72dB	-72dB 8dB	-72dB 8dB	-72dB 8dB	-72dB 8dB	R/F	0.0	,	_	1Way —		1Way —		1Way		1Way —
FE			FBS	8dB FBS					6dB	0dE		DELAY PEQ	DELAY PEQ	DELAY PEQ	DELAY PEQ	DELAY PEQ	DELAY PEQ	DELAY PEQ	DELAY
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Ch	11 CI	12	СНЗ	CH4	CH5	CH6	CH7	CH8	STINI	STIN2		OUT1	OUT2	OUT3	OUT4	OUT5	OUT6	OUT7	OUT8

# • ID=02

TX-MRX Editor				
<u>File System Controller About</u>				
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Project MTX3 cascade system				
01 MTX3 02 MTX3		EXT. 1/0	XM\	/
MAIN	ZONE ROUTER OUTP CH6 CH7 CH8 STI		1/0 0012 0013 0014 0015	
INI IN2 IN3 IN4 IN5	ING IN7 IN8 STIL	STIR ST2L ST2R OUT1	0012 0013 0014 0015 00T2 00T3 00T4 00T5	
$\bigcirc \bigcirc $				
+48V +48V +48V +48V +48V	+48V +48V			
A A A A		DELAY	DELAY DELAY DELAY	Y DELAY DELAY
HPF HPF HPF HPF HPF HPF			Room Room Room Room	Room Room Room
			1Way — SP 1Way — S	P 1Way
Bade Bade Bade Bade Bade Bade Bade Bade			DELAY DELAY DELAY DELAY PEQ PEQ PEQ	Y DELAY DELAY DELAY PEQ PEQ PEQ
A6C A6C A6C A6C	AG		LIM LIM LIM LIM	
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-00 -00 -00 -00 -00	-00 -00 -0	o -co 8.68	0.00 0.00 0.00 0.00	8.00 8.00 8.00
CH1 CH2 CH3 CH4 CH5	CH6 CH7 CH8 STI	NI STIN2 OUTI	OUT2 OUT3 OUT4 OUT5	OUT6 OUT7 OUT8

### • INPUT settings



### Port select button

When you click this, the "Input Patch" dialog box will open. In this example we are using the default settings, but if you want to switch to a different input port of the MTX, click this button, choose the desired input port, and then click the [Close] button.

# Port / External Device parameter access button

This button lets you adjust the gain and turn phantom power on/off. When you click the button, a popup window will appear, allowing you to adjust the gain and turn phantom power on/off. Make the



desired settings, and then in the upper right,  $click \times to close the popup window.$ The appropriate gain level will depend on the devices that are connected, so set the level appropriately for your devices.

For channels 1 through 8, the gain is set to 30 dB by default. Because a condenser microphone is connected to CH8 of UNIT ID=01, leave the gain at 30 dB and turn phantom power on. For the other channels to which wireless microphones are connected, lower the gain to 0 dB.

### EQ / HPF (High Pass Filter)

Click this to switch to the "CHANNEL EDIT" screen. Adjust the EQ and HPF appropriately for the microphone you're using. For ST IN, only EQ is available. When you want to return to the "MAIN" screen, click the [MAIN] button.

### FBS (Feedback suppressor)

FBS is provided on input channels 1 through 4. We recommend that microphone inputs, and particularly movable microphones such as wireless microphones, be connected to channels 1 through 4. When you click here, you will switch to the FBS setting screen.

When you want to return to the "MAIN" screen, click the [MAIN] button. For details on FBS settings, refer to "MTX-MRX Editor User Guide."

### [ON] button

This turns the channel on/off. You should turn off unused channels.

### Fader

This adjusts the input level. Leave the fader at  $-\infty$  until the system goes online.

### Channel name

You can double-click this to edit the name.

In this example, names have been assigned as follows.

	CH1	W.Mic1
	CH2	W.Mic2
	CH3	W.Mic3
	CH4	W.Mic4
UNIT ID	CH5	W.Mic9
= 01	CH6	W.Mic10
- 01	CH7	W.Mic11
	CH8	Chairman
	STIN1	CD Player
	STIN2	Computer
	STIN3	SD Player

	CH1	W.Mic5
UNIT ID	CH2	W.Mic6
= 02	CH3	W.Mic7
	CH4	W.Mic8

The UNIT ID = 01 MTX is the base unit, and the UNIT ID = 02 MTX is for expanding the number of microphones. Since wireless microphones are susceptible to feedback because of their mobility, we assign them preferentially to CH1 through CH4, which are equipped with FBS (feedback suppressor).

### Example 3) Using cascade mode to add MTX input channels (analog connection)

## • OUTPUT settings



### Port select button

Click this to open the "Output Patch" dialog box. In this example we will use the default settings, but if you want to use a different output port of the MTX, click this button, choose the desired output port, and then click the [Close] button.

### Port / External Device parameter access button

When you click this button, a popup window will appear, allowing you to set the MTX's output connector parameters and the parameters of the external device(XMV) associated with the channel. Verify that GAIN is set to 0.0 dB.

### DELAY / Room EQ

Click this to move to a screen where you can set delay and room EQ.

### Speaker processor

Click this to move to the "CHANNEL EDIT" screen. Make the appropriate settings for the speakers that will be connected.

### NOTE

The pre-installed library contains speaker processor files that are appropriate for the response of various speakers. By using these files you can make speaker processor settings easily.

### [ON] button

This button turns the channel on/off. Turn off unused channels.

### Fader

This adjusts the output level.

### **Channel name**

You can double-click this to edit the name. In this example, names have been assigned as follows.

UNIT ID = 01 O	UT1	Room
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# Settings in the "MATRIX" screen

Here you can specify which input channel will be sent to which zone. For details on send level and other parameters, refer to "MTX-MRX Editor User Guide."

### • ID=01



### • ID=02



In this example, make the settings shown in the above illustration. Clicking a cross point (a square area) or dragging cross points will switch it on/off. If you right-click on a cross point, a context menu appears. You can select [All OFF] to turn off all cross points. The cross point shows the send level as the amount of green.

With these settings, all input signals other than the microphone at the chairman's seat (CH8 of ID=1) are handled in the same way. To give the microphone at the chairman's seat higher priority than the other signals, it is assigned to 1<sup>st</sup> Priority in the following "ZONE" screen. When CH8 is turned on in MATRIX, the signal from the matrix (attenuated) will be combined with the signal from Priority, and output together.

For the input channel faders in the lower left of the screen, the grayed-out faders show input levels, and the other faders show input channel send levels. Grayed-out faders cannot be operated in this screen.



Priority signal flow

# Settings in the "ZONE" screen

In the "ZONE" screen you can make Priority DUCKER settings. The Priority Ducker function temporarily attenuates the inputs from other channels when audio is input from a specified input channel, ensuring that the audio from the specified input channel will be broadcast clearly. Priority is given in the order of "1<sup>st</sup> PRIORITY > 2<sup>nd</sup> PRIORITY > Matrix Out signals."



In this example, the chairman's microphone (assigned to CH8 of UNIT ID=01) has the highest priority. Thus, we select CH8 as the PRIORITY SOURCE for 1<sup>st</sup> PRIORITY in ZONE 1, and click the [ON] button located at the right of 1<sup>st</sup> PRIORITY to make it light. Since there is no need to make settings for ZONE2 through 8, make sure that the [ON] buttons at the right of 1<sup>st</sup> PRIORITY and 2<sup>nd</sup> PRIORITY are unlit (turned off).

Use the ZONE select buttons to switch the zone.

For details on each parameter, refer to "MTX-MRX Editor User Guide."

# Settings in the "ROUTER" screen

In the "ROUTER" screen you can assign zones to outputs. In this example, since ZONE1 will be output to OUTPUT1 through 4, set the MTX units of ID=01 and 02 as shown in the illustration.



# Settings in the "DCA" screen (INPUT CH MUTE)

In the "DCA" screen you can make level and mute settings for multiple channels in a single operation.

• ID=01



### • ID=02

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MAIN 1		ZON						ITPU		EFF		_	DC	A											
INPUT CH DCA		CHI	CH2	CH3	CH4	CH5	CH6	CH7	CH8	STINIL	STINIR	STIN2L	STINZR	STINBL	STINGR	CH9	CH18	CH11	CH12	CH13	CH14	CHIS	CH16		
	MUTE	0	0	0	0	8	0	0	0	s	s	S	S	S	S	0	o	8	0	0	0	0	8	CLEAR	
INPUT CH MUTE	MUTE																							CLEAR	
ZONE OUT	MUTE D																							CLEAR	
DCA	MUTE																							CLEAR	
ZONE OUT MUTE	MUTE G	_		_	_			_	_		_	_	_	_	_	_			_	_	_	_		CLEAR	
more	MUTE																							CLEAR	
A B C	DE			6																					

In this example, press the [INPUT CH MUTE] button on the digital control panel at the chairman's seat to mute all microphones other than the chairman's microphone. Turn on CH1 through CH7 of ID=01, and CH1 through CH4 of ID=02.
# MCP1 settings

Here we'll assign functions to the MCP1 that is located at the chairman's seat.

To make these settings, choose the [Controller] menu item [MCP1].

When you click one of the numbered buttons, a "Settings" dialog box will appear; assign parameters to the switch. Click the [Label] button to open the "Label" dialog box. Here you can make settings for the MCP1's display, to indicate the role that each button will perform.

When you've made the assignments and display settings, click to select "01 [No data]" and then click the [Save] button. In the "Save Library" dialog box, change the name to "Basic" and then click the [OK] button.

T MCP1											
Library	90 MCP1	•				PIN	Setup				
<u>S</u> ave <u>L</u> oad	Home	Page 1	Page 2	Page 3	Page 4	Page 5	Page 6	Dimmer &	Lock		
No. Name 01 Basic											
02 [No Data] 03 [No Data]			-Sw	vitch							,
04 [No Data]					FUNC		DEVIC	CE	P	ARAMETER	
05 [No Data] 06 [No Data]	Label			L1 In	put Ch Mute	e Group		A			
07 [No Data] 08 [No Data]	MUTE		_	L2 Ir	put Ch ON		01 MTX3	CH 8	3		
	Chairman Mic ON/OFF Mic Level		L3 Ir	] Input Ch Level		01 MTX3 CH		CH 8 _ [-∞dB - 0.0dB ]			
				R1 N	o Assign						
				R2 N	lo Assign						
				R3 N	o Assign						
							1				,
Copy Paste Clear											
To apply the settings, associa	te the Librar	v with a Pr	eset in the	Preset dia	log						
and then recall the Preset.	ate the Libial	ywiurari	esermine	i reset ula	log,					2	Close

Assign the parameters. If you assigned [SD Song Select & Play], enter the name of the file that you want to play or the name of the folder that contains the file you want to play.

L1 switch turns mute on/off for the microphone inputs other than the chairman's seat. L2 switch turns the chairman's microphone on/off. L3 switch will access the screen for adjusting the input level from the chairman's mic.

# Storing a preset

Now we'll store the settings we've made up to this point as a preset.

By recalling presets from the MTX itself or from the MCP1, you can switch the settings as appropriate for various situations.

To store or recall a preset, click the camera icon in the upper part of MTX-MRX Editor.



When you click the camera icon, the "Preset" dialog box will appear. You can create up to 50 presets.

Click the preset number that you want to store; the line will be selected. Then click the [Store] button, specify the preset name, and click the [OK] button.

Double-click a location where the MCP1 column indicates "No Assign," and choose a library that you specified on the MCP1.

Settings (Preset0 OCP Library	1)		Assign Untitled	P Library	A m	MCP1 L Assi 01 Bas 02 03 04 05 06 07 08	gn		*
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01 MTX3	Ignore	Ignore	Ignore	Ignore		-			
02 MTX3	Ignore	Ignore	Ignore	Ignore					
SD Song Select &	Play								
DEVICE		SC	NG		PLAY	MODE			
01 MTX3	No Assi	gn							
02 MTX3	No Assi	gn							
							OK		

	<u>R</u> ecall							Recall <u>F</u> ilter	
No.	Name	s	MTX3	EXT.I/O	DCP	Wireless DCP	MCP1	GPI / S	D
01	Basic		ALL	Δ	No Assign	No Assign	Basic	details.	[
02	[No Data]								
03	[No Data]								
04	[No Data]								
05	[No Data]								
06	[No Data]								
07	[No Data]								
08	[No Data]								
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15	[No Data]								
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17	[No Data]								1
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#### NOTE

If you don't store the preset, alert number 61 will occur.

Up to this point, our settings use all of the microphones connected to MTX units of UNIT ID =01 and 02, but there might be cases in which you want to use a different number of microphones. In such cases, you can limit the number of microphones by turning off the channels of unused microphones in the "MAIN" screen.

# • ID=01

TX-MRX Editor				
<u>File System Controller About</u>				
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Project MTX3 cascade syst	em			
01 MTX3 02 MTX3		EXT. I/O		XMV
MAIN INPUT MATRIX	ZONE ROUTER	OUTPUT EFFECT DC		
СН1 СН2 СН3 СН4 СН		STINI STIN2		
IN1 IN2 IN3 IN4 IN	i IN6 IN7 IN8	ST1 L ST1 R ST2 L ST2 R	OUT1 OUT2 OUT3 OUT4	OUTS OUT6 OUT7 OUT8
+48V +48V +48V +48V +48	V +48V +48V +48V			
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FBS FBS FBS FBS			PEO PEO PEO PEO PEO	Y         DELAY         DELAY         DELAY         DELAY           PEQ         PEQ         PEQ         PEQ
		AGC		
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-00 -00 -00 -00 -0 W.Mic1 W.Mic2 W.Mic3 W.Mic4 W.Mi		CD Player Computer	0.88 0.88 0.88 0.88 Room	8.88 8.88 8.88 8.88
CH1 CH2 CH3 CH4 CH		STIN1 STIN2	OUT1 OUT2 OUT3 OUT4	OUTS OUT6 OUT7 OUT8
		<b>&gt;</b> #		

#### • ID=02

TX-MRX Editor							- • •
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MAIN INPUT MAT		UTER OUTPUT	EFFECT DCA				
CH1 CH2 CH3 CH4	CH5 CH6 CH7	CH8 STIN1	STIN2 OUT		OUT3 OUT4	OUTS OUT6	OUT7 OUT8
IN1 IN2 IN3 IN4	IN5 IN6 IN7	IN8 ST1 L ST1 R	ST2 L ST2 R OUT	1 OUT2	OUT3 OUT4	OUTS OUT6	OUT7 OUT8
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+48V +48V +48V +48V	+48V +48V +48V	+48V					
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-72dB -72dB -72dB -72dB	-72dB -72dB -72dB	-72d8	-	SP 1Way-	SP 1Way		SP 1Way
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FBS FBS FBS FBS					PEQ PEQ	PEQ PEQ	PEQ PEQ
		AGC	AGC	d LIM	LIM	LIM	LIM
SEL SEL SEL	SEL SEL SEL	SEL SEL SEL	SEL SEL SEL	SEL	SEL SEL	SEL SEL	SEL SEL
ON ON ON ON	ON ON ON	ON ON			ON ON	ON ON	ON ON
			1 <b>1</b> 1				3 3 3 3 3
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12121212 15151515 18181818	121212 - 151515 -	-12 T - 12 -15 - 15	- 12 - - 15 -	-1212 · -1515 ·	-12 -12	12 12	1212 1515
		-24 - 24 -30 - 30	- 24	- 0 0 - 3 3 - 6 6 - 9 12 - 12 12 - 15 18 - 18 18 - 24 24 30 30			
.0         .0         .0         .0         .0           .3         .1         .3         .3         .3           .4         .1         .4         .4         .3           .4         .1         .4         .4         .4           .1         .1         .1         .4         .1           .1         .1         .1         .1         .1           .1         .1         .1         .1         .1           .1         .1         .1         .1         .1           .2         .1         .1         .1         .1           .2         .1         .1         .1         .1           .2         .1         .1         .1         .1           .2         .3         .3         .3         .3           .3         .3         .3         .3         .3           .3         .3         .3         .3         .3           .3         .3         .3         .3         .3           .3         .3         .3         .3         .3           .3         .3         .3         .3         .3	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	. 0 - 0 . 3 - 0 . 6 - 0 . 9 . 12 . 15 . 12 . 15 . 12 . 24 . 24 . 24 . 24 . 24 . 24 . 24 . 24 . 24 . 3 . 4 . 4 . 4 . 5 . 6 . 5 . 9 . 12 . 5 . 15 . 5 . 15 . 5 . 15 . 5 . 15 . 5 . 5 . 5 . 5 . 5 . 5 . 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0	-12 - 12 - 12 - 15 - 15 - 15 - 18 - 18 - 18 - 18 - 18	-12 - 12 -15 - 15 -18 - 24 -30 - 30 -40 - 40 -50 - 50 -60 - 60	-12 - 12 - 15 - 15 - 18 - 18 - 24 - 24 - 30 - 30 - 40 - 40 - 50 - 60	
-00 -00 -00 -00 -00	-00 -00 -00	-00 -00			0.00 0.00	8.00 0.00	0.00 0.00
W.Mic5 W.Mic6 W.Mic7 W.Mic8							
CH1 CH2 CH3 CH4	<u>CH5 CH6</u> CH7	CH8 STIN1	STIN2 OUT	1 OUT2	OUT3 OUT4	OUTS OUT6	OUT7 OUT8

If you store these settings as a different preset, you'll be able to easily switch to settings with a limited number of microphones. In the example above, wireless microphones 9 through 11 are not used, so FBS is used on all of the wireless microphones (1 through 8) that are being used.

This completes settings in the offline state. Save the settings once again.

# **Connecting the equipment**

After you've rack-mounted the MTX and your other equipment, connect the MTX and the other equipment as shown below. If you've copied audio sources to an SD memory card, insert the card into the MTX now.



To connect the MTX to your computer, use a CAT5e or higher cable with all eight pins connected.

# **Powering-on the MTX**

Turn on the power of the MTX. Turn off the amplifier before you power-off the MTX.

# Powering-on the amp

On the rear panel of the XMV, set the [SPEAKERS] DIP switch, and then turn on the power of the amps (XMV). To prevent unwanted sound from being output, we recommend that you turn down the attenuator settings of all channels on the amp itself before you turn it on.

To change the XMV attenuator setting, press the button of the appropriate channel and then turn the encoder.

#### NOTE

- With the factory settings, the XMV's attenuators are set to the lowest value.
- For more about the [SPEAKERS] DIP switch, refer to the XMV owner's manual.

# Setting the MCP1's UNIT ID

Set the MCP1's UNIT ID. About setting the UNIT ID, refer to the "MCP1 Installation Manual."

# Specifying the computer's TCP/IP address

To allow the MTX and the computer to communicate, specify the computer's TCP/IP as follows.

- **1.** On the [System] menu, click [Network Setup]. The "Network Setup" dialog box will appear.
- **2.** Click [Open Network Connection]. "Network Connections" will appear.
- **3.** Right-click the adapter to which the MTX is connected, and choose [Properties]. The "Local Area Connection Properties" dialog box will appear.
- **4.** Choose [Internet Protocol Version 4 (TCP/IPv4)], and then click [Properties]. The "Internet Protocol Version 4 (TCP/IPv4) Properties" dialog box will appear.
- 5. Click [Use the following IP address (S)].

# 6. In the [IP address] box, enter "192.168.0.253"; in the [Subnet mask] box, enter "255.255.255.0."

#### NOTE

The MTX3's IP address is set to "192.168.0.1" and "192.168.0.2," and the XMV's IP address is set to "192.168.0.26."

Internet Protocol Version 4 (TCP/	IPv4) Properties
General	
	automatically if your network supports eed to ask your network administrator
Obtain an IP address autom	atically
• Use the following IP address	s:
IP address:	192.168.0.253
Subnet mask:	255.255.255.0
Default gateway:	1 1 1 1
Obtain DNS server address	automatically
• Use the following DNS serve	er addresses:
Preferred DNS server:	
Alternate DNS server:	
🔲 Validate settings upon exit	Ad <u>v</u> anced
L	OK Cancel

# **7.** Click [OK].

#### NOTE

In some cases, Windows firewall may block MTX-MRX Editor when you make this setting. Select the [Private Network] check box, and click [Allow Access].

# **Taking MTX-MRX Editor online**

In the upper right of MTX-MRX Editor, click the [Online] button. When the unit has successfully come online, the indicator 1 at the left will light blue.



When the "Synchronization" dialog box appears, select "To Device," and click the [OK] button. When the indication in the dialog box has switched, select the system that you want to place online, and click the [Online] button. The project created in MTX-MRX Editor will be sent to the MTX.

		Synchronization		
		DIRECTION: To De	evice	
		SYSTEM	STATUS	PROGRESS
		MTX3 cascade	OFFLINE	details
Synchronization		No Assign	LOST	dataila
To Device	From Device	INV Assign	LUSI	details
		No Assign	LOST	details
		No Assign	LOST	details
		System Message	o oo ooline an	d then click [Online] button.
	OK Cancel	Select the systems	o go onnire an	
				Online Cancel

# **Making XMV settings**

If necessary, use the XMV's front panel to make settings such as the high pass filter. For more about the settings you can make on the XMV, refer to the XMV owner's manual.

# Verifying that the settings were applied

The main items to verify are listed below. For details on each parameter setting, refer to "MTX-MRX Editor User Guide."

### **1.** Recall the Basic preset.

2. Using the oscillator in the "ROUTER" screen, adjust the output level.

Adjust the amp's attenuator value to an appropriate level.

#### 3. Specify the gain from the microphone.

You can set the gain in the dialog box that appears when you press the parameter recall button for a port or external device of an input channel in the "MAIN" screen. Watch the input meter, and adjust the setting appropriately.

#### 4. Set the input levels and output levels.

Using the input/output faders in the "MAIN" screen, adjust the levels. As necessary, apply the output limiter in the "CHANNEL EDIT" screen to prevent your speakers from being damaged. Adjust the amp attenuator values to obtain the optimal S/N ratio. In addition, make FBS settings as necessary.

#### **5.** Store the Basic preset.

Store by overwriting the previously-specified content.

#### **6.** Check the MCP1 settings.

Verify that the MCP1 operates as you expect.

When you have finished making all settings, save the project and switch MTX-MRX Editor offline.

#### This completes the settings for example 3.

# **Example 4) A system using Dante**

This example assumes an audio signal flow like the one shown below.



# Using the Device Configuration Wizard to create your device setup

You will use MTX-MRX Editor's wizard to create your device setup before actually connecting your equipment. After you've made basic settings, you'll be able to print information about system cabling and ID numbers. Make basic settings for System A, and then make basic settings for System B. Use the following procedure to make basic settings.

1. Enter a name for the MTX/MRX System that we are calling System A, and then click [NEXT>].

To Device Configuration Wizard			×
System #1		a ()	
The Device Configuration Wizard guides you through the initial configuration of your system design, and configures device settings.		a ( )	
Select and name a new configuration, edit an existing configuration, or clear an existing configuration.			
SYSTEM NAME System A			
New			
© Edit Configuration			
Changing the number of devices, type of devices and/or connection will initialize the settings of Word Clock and Dante.			
O Go to Mini-YGDAI Card and Controller Setup.			
Cancel	< Ba	ck Next >	Finish

2. Specify the number of units that will be connected in your MTX/MRX System, and click [Next>].

In "YDIF Connected," specify 1 each as the number of MTX5-D, EXi8, and EXo8 devices. To make settings for the EXo8, use the scroll bar to make the EXo8 visible.

Configuration Wizard			×
System A		B	
	onnected via YDIF, Analog, and/or Dante. ist to make up a system. After changing the C e store the existing PRESET again.		
YDIF Connected	ANALOG Connected	DANTE Connected	
DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number
MRX7-D 0	XMV4140 □ □ □ □ □ □ □ □ □ □ □	PGM1 ^	MCP1 0 •
MTX5-D	XMV4280 □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	XMV4140-D 0 ▼	
MTX3	XMV8140	XMV4280-D 0 ▼	
EX18	XMV8280 □ 0 ▼	XMV8140-D □ ○ ○ □ □ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
XMV4140	XMV4140-D □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	XMV8280-D □ ○ ○ · · · · · · · ○ ○ ○ ○ ○ ○ ○ ○ ○ ○	
XMV4280 □	XMV4280−D 0 ▼		
XMV8140	XMV8140-D		
XMV8280	XMV8280-D 0	-	
Number of Assigned Devices: ·MTX/MRX Total: 1 / 4 · ·YDIF Total: 3 /	/8	·MTX/MRX/XMV/EXio: 3/20 ·PGM	11/MCP1: 0 / 20 · Project Total: 6 / 80
		Cancel	< Back Next > Finish

## 3. Specify the UNIT ID of each device, and click [Next>].

Set the UNIT ID so that the MTX5-D is 01, the EXi8 is 02, and the EXo8 is 03.

Device Configuration Wizard			<b>—</b>
System A		B	
	physical IDs to the configuration diagram late		
YDIF Connected DEVICE TYPE UNIT ID	ANALOG Connected DEVICE TYPE UNIT ID	DANTE Connected DEVICE TYPE UNIT ID	DEVICE TYPE Number
02 EX18 02 ••• 01 ••••• 03 EX08 03 •••			
		Cancel	< Back Next > Finish

#### **4.** Set the [UNIT ID] rotary switch and DIP switch of the devices.

You will set the computer's IP address after completing the wizard, in "Specifying the computer's TCP/IP address." If the devices are not nearby, you can set them during the step "Connecting the equipment."



Make the following settings.



- 5. When you have finished setting the [UNIT ID] rotary switch and DIP switch of the devices, click [Next>].
- 6. Verify that the devices are shown in the screen, and click [Next>].

Configuration Wizard				×
System A The order of the YDIF connected devices	can be changed by dragging and droppi	ng.		
YDIF Connected DEVICE	ANALOG Connected DEVICE	DEVICE	DANTE Connected	DEVICE
02 EX18		*	^	
01 MTX5-D				
03 EX68				
Refresh			Cancel	< Back Next > Finish

## 7. Select the Mini-YGDAI card, and click [NEXT>].

In this example we are not using a Mini-YGDAI card, so leave the setting at [No Assign] and click [Next>].

🐻 Device Config	juration Wizard						<b>-</b>
System A				8 () · · · · ·			
Select the Mini-	YGDAI card.			01 ····		)	
0				位日 // mmmg 位日 位 m			
			Mini-YGDAI Card				
DEVICE	CARD TYPE	INFORMATION					
01 MTX5-D	No Assign 🔻						
				Cancel	< Back	Next >	Finish

**8.** Choose the model of DCP that is connected to the MTX, enter a device name, and click [Finish].

In this example we are not using a DCP, so leave the settings as they are.

To Device Configuration Wizard	
System A Assign and name the Digital Control Panels connected to each MTX or MRX. Star topology using DCH8 is also possible.	
DEVICE 01 MTX5-D	
ID MODEL Name	
0 None •	
1 None	
2 None	
3 None •	
4 None	
5 None	
6 None	
7 None •	
	Cancel < Back Next > Finish

**9.** When you see the dialog box "Display the configuration diagram? The diagram can also be printed." click [Yes].



A cabling diagram will appear. If you want, click [Print] to print the diagram. To close the screen, click [Close].

Configuration [	Diagram							
Ethernet	Connect the con switch using Eth	nputer and devices to an nernet cables.			DCP DIP switch 4 (termin (only set for one DCP pe		n for the longest DCP ca	ble run
System A DEVICE		Digital Control Panel	This is an example	of a daisu chain con	noction	ANALOG	DANTE	
DEVICE		ID-8 ID=1	OH 1 2 3 4 1 2 3 4	ID=4 ID=5	ID=6 ID=7		DAME	
02 EXi8								
01 MTX5-D								
03 EXo8								
							>>Page2 Prin	t Close

#### NOTE

If you want to view the cabling diagram again, do so by choosing [File] menu  $\rightarrow$  [Print Configuration Diagram].

If you want to use the Device Configuration Wizard to change the device configuration, click the [Device Config] button in the Project screen.





## 10. In order to make basic settings for System B, click the system select tab [2 No Assign].

# **11.** Click [Device Config].

The Device Configuration Wizard for System B will appear.

**12.** Enter a name for the MTX/MRX System that we are calling System B, and then click [NEXT>].



# **13.** Specify the number of units that will be connected in your MTX/MRX System, and click [Next>].

In the "YDIF Connected" area, specify 1 each as the number of MTX5-D and XMV4280 units; in the "Dante Connected" area, specify 1 as the number of XMV4280-D devices.

Configuration Wizard			<b>—</b>
System B			
Enter the number of devices which are co At least one MTX or MRX device must exis When you change a configuration, please	st to make up a system. After changing the C	Configuration, re-store the existing Preset o	lata.
YDIF Connected	ANALOG Connected	DANTE Connected	
DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number	DEVICE TYPE Number
MRX7-D 0	XMV4140 0	PGM1 ^	MCP1 ^
MTX5-D	XMV4280 □ 0 ▼	XMV4140−D 0 ▼	
MTX3	XMV8140	XMV4280-D	
EX18 □ ■ ■ ■	XXV9280	XMV8140-D	
XMV4140	XMV4140-D	XMV8280−D 0 ▼	
XMV4280	XMV4280-D 0		
XMV8140	XMV8140-D		
XMV8280	XMV8280-D 0 •	-	-
Number of Assigned Devices: •MTX/MRX Total: 1 / 4 • •YDIF Total: 2 /	/8	·MTX/MRX/XMV/EXio: 3/20 ·PGM	1/MCP1: 0 / 20 · Project Total: 6 / 80
		Cancel	< Back Next > Finish

## **14.** Specify the UNIT ID of each device, and click [Next>].

Set the UNIT ID so that the MTX5-D is 04, the XMV4280 is 30, and the XMV4280-D is 31.

Tevice Configuration Wizard			
<u>System B</u>			
Set the Unit IDs. Match the Unit IDs in the list below to the If no devices are present yet, match the p	hysical IDs to the configuration diagram	later.	
YDIF Connected DEVICE TYPE UNIT ID	ANALOG Connected DEVICE TYPE UNIT ID	DANTE Connected DEVICE TYPE UNIT ID	DEVICE TYPE Number
04 MTX5-D 30 XMV4280 ■ ● → → → ● ■ ■ 04 ▼ 30 XMV4280 ■ ● → → → → ■ ■ ■ 04		▲ 31 XHV4280-D 31 ▲	-
		•	
YDIF MODE DISTRIBUTION *			
		Cancel	< Back Next > Finish

## **15.** Set the [UNIT ID] rotary switch and DIP switch of the devices.

You will set the computer's IP address after completing the wizard, in "Specifying the computer's TCP/IP address." If the devices are not nearby, you can set them during the step "Connecting the equipment."



Make the following settings.



#### NOTE

On the XMV4280, the higher digit of the UNIT ID is set by the DIP switch, and the lower digit is set by the [UNIT ID] rotary switch. For details, refer to the owner's manual of each device.



- **16.** When you have finished setting the [UNIT ID] rotary switch and DIP switch of the devices, click [Next>].
- 17. Verify that the devices are shown in the screen, and click [Next>].

Configuration Wizard					<b>—</b>
System B					
The order of the YDIF connected devices	can be changed by dragging and droppi	ng.			
			-> 00 II	10 MW 1 20	
YDIF Connected	ANALOG Connected	DEVICE	DANTE Connected	DEVIOE	
DEVICE	DEVICE	DEVICE		DEVICE	
04 MTX5-D		1 31 XMV4		<b>^</b>	^
30 XMV4280					
		÷		<del>.</del>	+
Refresh			Cancel	< Back	Next > Finish

# **18.** Select the Mini-YGDAI card, and click [NEXT>].

In this example we are not using a Mini-YGDAI card, so leave the setting at [No Assign] and click [Next>].

🐻 Device Config	juration Wizard							<b>—</b>
System B					8 ()		)	
Select the Mini-	YGDAI card.				**			
			Mini-YGDAI Card					
DEVICE	CARD TYPE	INFORMATION						
04 MTX5-D	No Assign 🔻							
				_	Cancel	< Back	Next >	Finish

**19.** Choose the model of DCP that is connected to the MTX, enter a device name, and click [Finish].

In this exam	ole we are not	using a DCP,	so leave the setting	gs as they are.

💽 Device Co	nfiguration Wizard	
<u>System B</u> Assign and Star topolog	name the Digital Control Panels connected to each MTX or MRX. yy using DCH8 is also possible.	
DEVICE	04 MTX5-D 🔻	
ID	MODEL Name	
0	None	
1	None	
2	None	
3	None	
4	None	
5	None	
6	None	
7	None	
		Cancel < Back Next > Finish

**20.** When you see the dialog box "Display the configuration diagram? The diagram can also be printed." click [Yes].



A cabling diagram will appear. If you want, click [Print] to print the diagram. To close the screen, click [Close].

Configuration Dia	agram							<b>×</b>
Ethernet	Connect the con switch using Eth	nputer and devices to an iernet cables.	Ethernet	oortant - Always set m each MTX or MR)	DCP DIP switch 4 (term (only set for one DCP p	ination) to the ON positio er MTX or MRX).	n for the longest DCP cable run	
DEVICE		Digital Control Panel	This is an example	of a daisy-chain co	nnection.	ANALOG	DANTE	
		1234 1234 ID=0 ID=1	000 1 2 3 4 1 2 3 4 1 2 3 4 1 2 3 4	00 00 1234 1234 ID=4 ID=5	он 1234 ID=6 ID=7			
04 MTX5-D							31 XMV4280-D	
30 XMV4280								
							>>Page2 Print	Close

#### NOTE

If you want to view the cabling diagram again, do so by choosing [File] menu  $\rightarrow$  [Print Configuration Diagram].

If you want to use the Device Configuration Wizard to change the device configuration, click the [Device Config] button in the Project screen.



# Making preliminary settings in MTX-MRX Editor

Here's how to make detailed MTX/MRX System settings in MTX-MRX Editor. When you've finished making settings, you should save them by clicking [File] menu, then [Save].

#### NOTE

The "User Account Control" dialog box may appear. Click [Continue] or [Yes].

To switch between System A and System B, use the system select tabs in the "Project" screen. The currently selected MTX/MRX System is indicated by the system select tabs and the SYSTEM tab.

SYSTE	M tab		System se	lect tabs		
MTX-MRX Editor					[	- • 💌
<u>File System Contr</u>	ler <u>A</u> bout					
🗋 📤 🐁 📥		DIT	) 🖻 📓	od od od	Online	Offline 💋
Project Syste			Syst	em A System B	3 NoAssign	4 NoAssign
	Device Config				[	
NETWORK	YDIF	Digital Control Panel / PGM1		ANALOG	DANTE	MCP1
	02 EXi8					
	01 MTX5-D	0 1 2 3 4	5 6 7			
	03 EXo8			-		
-					·	
System Devic	ce Alert					8
SYSTEM NAME System	n A	DIMMER	ON OFF			Ť
YDIF MODE Distrib		DISABLE SYNC LEDS	ON OFF			

We'll start by making settings for System A.

# Making EXT. I/O settings

Make settings for inputting and outputting digital audio. First we will make YDIF settings for System A. Click the SYSTEM tab to access the setting screen.

Project	System	A			
01 MTX5	01 MTX5-D				
YDIF 1-8	YDIF 9-16	ANALOG	DANTE		

## **1.** Click the [EXT. I/O] button.

The "EXT. I/O" screen will appear, allowing you to make input/output settings for the external devices. Since you'll be making settings for YDIF 1–8, there's no need to switch screens; simply make the settings in this screen.



## **2.** Click the [EDIT] button.

Here you can specify YDIF 1-8 input/output settings for the EXi8 and EXo8.

#### 3. Click the EXi8's input routing select button for YDIF 1.

The "YDIF In Patch" dialog box will appear.

YDIF In Patch		
YDIF In: 1		
Thru 02 EXi8		*
	Close	

## **4.** For CHANNEL, click [1] and then click [Close] button.

The YDIF 1 input routing select button shows that CH1 of the EXi8 whose UNIT ID = 02 has been assigned to YDIF 1.



5. Verify that for the MTX5-D with UNIT ID = 01, the buttons located below YDIF 5 through YDIF 8 are set to OUT5 (OUTPUT 5) through OUT 8 (OUTPUT 8) respectively.

If the settings are different, click the button and change the setting.

Channel Select								
YDIF: 0 5 V								
Thru								
-INPUT CHANNEL(POST	ON)							
1 2	3	4	5	6	7	8		
9 10	11	12	13	14	15	16		
STEREO INPUT CHANN	IEL(POST O	N)						
1L IR	2L	2R	3L	3R				
ZONE OUT								
1 2	3	4	5	6	7	8		
9 10	11	12	13	14	15	16		
OUTPUT								
1 2	3	4	5	6	7	8		
9 10	11	12	13	14	15	16		
		Clo	se					

# **6.** Click the EXo8's output routing select button for YDIF 5.

The "YDIF Out Patch" dialog box will appear.

YDIF Out Patch		60
YDIF Out: 15	•	
03 EXo8	1 2 3 4 5 6 7 8	*
		Ŧ
	Close	

# **7.** For CHANNEL, click [1] button.

The screen indicates that the YDIF 5 signal is output to CH 1 of the EXo8.

MTX-MRX Editor <u>File System C</u> ontroller <u>A</u> bout				
	EDIT	•		Dnline Offline 💋
Project System A	ļ, į			
01 MTX5-D YDIF 1-8 YDIF 9-16 ANALC	DANTE	EXT. I/O	EXi8 EXo8	
EXT.1/0 EDIT YDIF 1 02 EXi8 EXi8	YDIF 2 YDIF 3	YDIF 4 YDIF 5	YDIF 6 YDIF 7	YDIF 8
01 MTX5-D		Thru         Thru           0UT4         0UT5	Thru Thru OUT6 2 OUT7 2	Thru OUT8
03 EXo8				
	╸╢╺╸╢			╟═┩
				╟━╢

8. Change the output destination in the [YDIF Out:] list box, to assign YDIF 6 through YDIF 8 to CH 2 through CH 4 of the EXo8, and then click "Close" button.

TX-MRX Editor				_ = _
<u>File System Controller</u>	About			
0 📤 🐁 📥	EDIT	💌 🔯 🖉		Online Offline 🖊
Project System A				
01 MTX5-D		EXT. I/O	EXi8 EXo8	
YDIF 1-8 YDIF 9-16	ANALOG DANTE			
EXT.I/O EDIT YDIF 1 02 EXI8	YDIF 2 YDIF 3	YDIF 4 YDIF 5	YDIF 6 YDIF 7	YDIF 8
EXi8 CH 1	Thru Thru	Thru Thru	Thru Thru	Thru
01 MTX5-D MTX5-D OUT1 →>				
03 EXo8				
-		CH1 CH1	CH 2 CH 3	CH 4
				<u>n – n</u>
		لمعلاها		
			or 107 '	

**9.** Click [EDIT] button to lock the settings.



# Settings in the "MAIN" screen

In the "MAIN" screen you can make overall settings for each channel. Click the [01 MTX5-D] button to access the MTX "MAIN" screen. For details on each parameter, refer to "MTX-MRX Editor User Guide." Here you'll make the following settings.

- Channel name
- Channel on/off
- Gain and phantom power
- (As necessary) EQ settings



# • INPUT settings

Make the following input settings.

CH1	Signal from the main mic of System A, connected to the EXi8			
СН9	Signal from the main mic of System B			
CH10	System B signal other than the main mic			
STIN1 L/R	Signal from the CD player connected to ST IN1			
STIN2 L/R	Signal from the background music player connected to ST IN2			
STIN3 L/R	SD player built into the MTX5-D			



#### Port select button

When you click this, the "Input Patch" dialog box will open. This example makes the following changes to the default settings.

CH1 YDIF [1] (System A main mic connected to the EXi8)					
СН9	DANTE [9] (Signal from the system B main mic)				
CH10	DANTE [10] (System B signal other than the main mic)				

#### Port / External Device parameter access button

This lets you make input connector settings for the MTX and EXi8. When you click the button, a popup window will appear. Make the desired settings, and then in the upper right, click  $\times$  to close the popup window. The appropriate gain level will depend on the devices that are connected, so set the level appropriately for your devices. For CH1, make settings for input connector

1 of the EXi8. The gain of the EXi8 is set to



Because condenser microphone is connected to CH1, leave the gain at 30 dB and turn phantom power on.

#### [ON] button

-6 dB by default.

This turns the channel on/off. You should turn off unused channels.

#### Fader

This adjusts the input level. Leave the fader at  $-\infty$  until the system goes online.

#### Channel name

You can double-click this to edit the name. In this example, names have been assigned as follows.

CH1	Main Mic
0	
СН9	Sys B9
CH10	Sys B10
STIN1	CD Player
STIN2	BGM
STIN3	SD Player

# • OUTPUT settings

Make the following output settings.

CH1-4	Output to the amps in Amp Room A using the analog outputs of the MTX5-D
CH5-8	Output to the amps of Amp Room B using CH1-4 of the EXo8 connected via YDIF
СН9	Output the signal of the main mic connected to the EXi8 to System B via Dante[9]
CH10	Output a signal other than the main mic to System B via Dante [10]



#### Port select button

Click this to open the "Output Patch" dialog box. This example makes the following changes to the default settings.

OUT1	OUTPUT [1]
OUT2	OUTPUT [2]
OUT3	OUTPUT [3]
OUT4	OUTPUT [4]
OUT5	YDIF [5]
OUT6	YDIF [6]

OUT7	YDIF [7]
OUT8	YDIF [8]
OUT9	DANTE [9]
OUT10	DANTE [10]
OUT11- OUT16	No setting

#### Port / External Device parameter access button

When you click this button, a popup window will appear. For OUT1 through OUT4, make settings for MTX output connectors 1 through 4.

For OUT5 through OUT8, make settings for EXo8 output connectors 1 through 4.

For OUT9 and OUT10, make settings for output to the Dante network. Verify that each GAIN is set to 0.0 dB.

#### DELAY / Room EQ

Click this to move to a screen where you can set delay and room EQ. Since OUT9 and OUT10 are for transmission to System B, do not make settings.

#### Speaker processor

Click this to move to the "CHANNEL EDIT" screen. Make the appropriate settings for the speakers that will be connected.

Since OUT9 and OUT10 are for transmission to System B, do not make settings.

#### NOTE

The pre-installed library contains speaker processor files that are appropriate for the response of various speakers. By using these files you can make speaker processor settings easily.

#### [ON] button

This button turns the channel on/off. Turn off unused channels.

#### **Channel name**

You can double-click this to edit the name.

In this example, names have been assigned as follows.

OUT1	RoomA1	OUT6	RoomB2
OUT2	RoomA2	OUT7	RoomB3
OUT3	RoomA3	OUT8	RoomB4
OUT4	RoomA4	OUT9	Sys B9
OUT5	RoomB1	OUT10	Sys B10

# ■ Settings in the "MATRIX" screen

Here you can specify which input channel will be sent to which zone. For details on send level and other parameters, refer to "MTX-MRX Editor User Guide."

When making settings for System A, "this MTX/MRX System" refers to System A, and "the other MTX/MRX System" refers to System B.

When making settings for System B, "this MTX/MRX System" refers to System B, and "the other MTX/MRX System" refers to System A.



In this example, make the settings shown in the illustration in before page. Clicking a cross point (a square area) or dragging cross points will switch it on/off. If you right-click on a cross point, a context menu appears. You can select [All OFF] to turn off all cross points. The cross point shows the send level as the amount of green. For each zone, this setting will be as follows.

- Zone 1: Input channel 1, CD/BGM/SD (SDIN1–3), and the audio from the other MTX/MRX System are broadcast to this entire MTX/MRX System. Since the mic (CH1) of this MTX/MRX System and the mic (CH9) of the other MTX/MRX System are assigned for emergency announcements etc. for the entire building, specify their Priority in the "ZONE" screen that follows. When you turn CH1 and CH9 on in the matrix, the (attenuated) signal from the matrix will be combined
- **Zone 2:** This is for broadcasting the voice from the main mic (CH1) to the other MTX/MRX System.
- Zone 3: This is for broadcasting signals other than the main mic to the other MTX/MRX System.

with the signal from Priority, and output.

For the input channel faders in the lower left of the screen, the grayed-out faders show input levels, and the other faders show input channel send levels. Grayed-out faders cannot be operated in this screen.



Priority signal flow

# Settings in the "ZONE" screen

In the "ZONE" screen you can make Priority DUCKER settings. The Priority Ducker function temporarily attenuates the inputs from other channels when audio is input from a specified input channel, ensuring that the audio from the specified input channel will be broadcast clearly. Priority is given in the order of "1<sup>st</sup> PRIORITY > 2<sup>nd</sup> PRIORITY > Matrix Out signals."



In this example, we are assuming that the main A mic (CH1) and the other MTX/MRX System's mic (CH9) will be used for broadcast to the entire building. Thus, for 1<sup>st</sup> PRIORITY, we set the PRIORITY SOURCE to CH1; as the 2<sup>nd</sup> PRIORITY SOURCE we select CH9 in ZONE1, and click the [ON] button located at the right to make it light. Because there's no need to make settings for zones 2 through 8, make sure that the [ON] button at the right of 1<sup>st</sup> PRIORITY and 2<sup>nd</sup> PRIORITY are unlit (turned off).

Use the ZONE select buttons to switch the zone.

For details on each parameter, refer to "MTX-MRX Editor User Guide."

# ■ Settings in the "ROUTER" screen

In the "ROUTER" screen you can assign zones to outputs.

In this example, set ZONE1=OUTPUT 1 through 8, ZONE2=OUTPUT 9, and ZONE3=OUTPUT 10. With these settings, this MTX/MRX System will broadcast all of its own audio as well as all audio of the other MTX/ MRX System, the main mic of this MTX/MRX System will be sent to Dante channel 9, and signals of this MTX/MRX System other than the main mic will be sent to Dante channel 10.



This completes settings for this MTX/MRX System.

Next we will make settings for System B.

System B will have many of the same settings as System A. For the System B settings, we will explain settings made in the "EXT I/O" screen and settings made in the "MAIN" screen. Other settings will be the same as previously explained. If you've also finished the settings for System B, proceed to "Dante settings between systems." First, select System B in the "Project" screen.

TX-MRX Editor								
<u>File</u> <u>System</u> <u>Contro</u>	ller <u>A</u> bout							
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	30 XMV4280							
System Devic	ce Alert				35			$\gg$
SYSTEM NAME System	n B	DIM	MER	ON	FF			
YDIF MODE Distrib	ution	DISA	BLE SYNC LE	DS ON C	FF			

# Making EXT. I/O settings

Make settings for inputting and outputting digital audio. First make YDIF and Dante settings for System B. Click the SYSTEM tab to access the setting screen.

Project	System	В	
04 MTX5			
MAIN	INPUT	MATRIX	ZONE

## **1.** Click the [EXT. I/O] button.

The "EXT. I/O" screen will appear, allowing you to make input/output settings for the external devices. Since you'll be making settings for YDIF 1–8, there's no need to switch screens; simply make the settings in this screen.

## 2. Click the [EDIT] button.

Now you can specify the inputs from the XMV unit's YDIF 1-8.



#### 3. Click the XMV's output routing select button for YDIF 1.

The "YDIF Out Patch" dialog box will appear.

YDIF Out: 1	Input Source YDI	F ANALOG DANTE
30 XMV4280	A B C D	*
		-

## **4.** For CHANNEL, click [A] button.

The screen indicates that the YDIF 1 signal is output to CH A of the XMV.

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Project System B		
04 MTX5-D	EXT. I/O	XMV
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04 MTX5-D		
30 XMV4280		
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5. Change the output destination in the [YDIF Out:] list box, to assign YDIF 2 through YDIF 4 to CH B through CH D of the XMV4280, and then click [Close] button.

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Project System B				
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# **6.** Click [EDIT] button to lock the settings.

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	YDIF 1-8 YDIF 9-16 ANALOG	DANTE			
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	04 MTX5-D	0 0	0 0	0 0	0
	MTX5-D OUT1 DUT2				OUT8
	30 XMV4280				
	XMV CH A CH B	- снс - (	CH D 🖌 👘 🛶		
		_         ,			

# 7. Click [DANTE] button.

The Dante setting screen will appear. Here you will specify the output to the XMV4280-D.


## 8. In the upper left, click the [EDIT] button.

Now you can make Dante input/output settings. If the [Preserve the Dante settings configured by Dante Controller] check box is selected, clear the check box.

TX-MRX Editor - MTX5-D Dante system-	2.mtx		- • •
<u>File System Controller About</u>			
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Project System B			
04 MTX5-D		EXT. I/O	XMV
YDIF 1-8 YDIF 9-16 ANALOG	DANTE		
Preserve the Dante so 1 60 Transmitters 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	attines confisured by Dante Controller.	YMY Ineut Source VDF	ANALOG DANTE

**9.** Click [04 MTX5-D] in [Transmitters], and click [31 XMV4280-D] in [Receivers]. A patching grid is displayed.

T MTX-MRX Editor - MTX5-D Dante system-2.mtx			- • •
<u>File System Controller About</u>			
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Transmitters	5-D		
Receivers 1 2 3 4 5 6 7 8	9 18 11 12 13 14 15 16		
81 81 MTX5-D 84 MTX5-D			
02 Sustem 03 XMV428 0 0 0 1 XMV428			

# **10.** Click the grid locations where 5 through 8 of the MTX5-D intersect with A through D of the XMV4280-D.

 $A \bigcirc$  symbol is shown on the grid.



**11.** In the upper left, click [EDIT] button to lock the settings.

TX-MRX Editor - MTX5-D Dante system-2.mtx		
<u>File</u> System <u>Controller</u> About		
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Project System B		
04 MTX5-D	EXT. I/O	XMV
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Transmitters		
Receivers 0 1 2 3 4 5 6 7 8 9 18 11 12 1 81 81 MTX5-D	3 14 15 16	
94 MTV5=D		
95 8 31 WH		

## Settings in the "MAIN" screen

In the "MAIN" screen you can make overall settings for each channel. Click the [04 MTX5-D] button to access the MTX "MAIN" screen. For details on each parameter, refer to "MTX-MRX Editor User Guide." Here you'll make the following settings.

- Channel name
- Channel on/off
- Gain and phantom power
- (As necessary) EQ settings



## • INPUT settings

Make the following input settings.

CH1	Signal from the main mic of System B, connected to the MTX5-D		
CH9	Signal from the main mic of System A		
CH10	System A signal other than the main mic		
STIN1 L/R	Signal from the CD player connected to ST IN1		
STIN2 L/R	Signal from the background music player connected to ST IN2		
STIN3 L/R	SD player built into the MTX5-D		



## Port select button

When you click this, the "Input Patch" dialog box will open. This example makes the following changes to the default settings.

Í	CH9	DANTE [9] (Signal from the system A main mic)
	CH10	DANTE [10] (System A signal other than the main mic)

# Port / External Device parameter access button

This lets you make input connector settings for the MTX. When you click the button, a popup window will appear. Make the desired settings, and then in the upper right, click  $\times$  to close the popup window.



The appropriate gain level will depend on

the devices that are connected, so set the level appropriately for your devices. For CH1, make settings for input connector 1 of the MTX. The gain is set to 30 dB by default.

Because condenser microphone is connected to CH1, leave the gain at 30 dB and turn phantom power on.

### [ON] button

This turns the channel on/off. You should turn off unused channels.

### Fader

This adjusts the input level. Leave the fader at  $-\infty$  until the system goes online.

### **Channel name**

You can double-click this to edit the name.

In this example, names have been assigned as follows.

CH1	Main Mic
СН9	Sys A9
CH10	Sys A10
STIN1	CD Player
STIN2	BGM
STIN3	SD Player

## • OUTPUT settings

Make the following output settings.

CH1-4	Output via YDIF to the XMV4280 in Amp Room A
CH5-8	Output via Dante to the XMV4280-D in Amp Room B
СН9	Output the signal of the main mic to System A via Dante[9]
CH10	Output a signal other than the main mic to System A via Dante [10]



### Port select button

Click this to open the "Output Patch" dialog box. This example makes the following changes to the default settings.

OUT1	YDIF [1]
OUT2	YDIF [2]
OUT3	YDIF [3]
OUT4	YDIF [4]
OUT5	DANTE [5]
OUT6	DANTE [6]

OUT7	DANTE [7]
OUT8	DANTE [8]
OUT9	DANTE [9]
OUT10	DANTE [10]
OUT11– OUT16	No setting

### Port / External Device parameter access button

When you click this button, a popup window will appear, allowing you to set the MTX's output connector parameters.

For OUT1 through OUT4, make settings for XMV4280 output connectors A through D.

For OUT5 through OUT8, make settings for XMV4280-D output connectors A through D.

For OUT9 and OUT10, make settings for output to the Dante network. Verify that GAIN is set to 0.0 dB.

### DELAY / Room EQ

Click this to move to a screen where you can set delay and room EQ. Since OUT9 and OUT10 are for transmission to System A, do not make settings.

### Speaker processor

Click this to move to the "CHANNEL EDIT" screen. Make the appropriate settings for the speakers that will be connected.

Since OUT9 and OUT10 are for transmission to System A, do not make settings.

### NOTE

The pre-installed library contains speaker processor files that are appropriate for the response of various speakers. By using these files you can make speaker processor settings easily.

### [ON] button

This button turns the channel on/off. Turn off unused channels.

### Channel name

You can double-click this to edit the name.

In this example, names have been assigned as follows.

OUT1	RoomA1
OUT2	RoomA2
OUT3	RoomA3
OUT4	RoomA4
OUT5	RoomB1

OUT6	RoomB2
OUT7	RoomB3
OUT8	RoomB4
OUT9	Sys A9
OUT10	Sys A10

Subsequent settings in MTX-MRX Editor are the same as System A "MATRIX" screen settings through "ROUTER" screen settings. Make the Settings in the "MATRIX" screen through the settings in the "ROUTER" screen.

## Dante settings between systems

Here you'll make Dante settings for between System A and System B.

Regardless of whether you make these settings in System A or in System B, the settings will be applied to each other. For this example, our explanation will use the System B screen.

## **1.** Click the [EXT. I/O] button.

The "EXT. I/O" screen will appear, allowing you to make input/output settings for the external devices. If the Dante setting screen is not shown, click the [DANTE] button to access the Dante setting screen.

MTX-MRX Editor - MTX5-D Dante sy <u>F</u> ile <u>S</u> ystem <u>C</u> ontroller <u>A</u> bout	stem-2.mtx				
		asic	D) 🖉	<b>01 0</b> 2 <b>0</b> 3 <b>0</b> 4	Online Offline 🖌
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Transmitters 0-5224	04 MTX5-D				
Receivers         Image: Constraint of the constrain	6 7 8 9 18 11 12 13 14	15 16			

## **2.** In the upper left, click the [EDIT] buttons.

Now you can make Dante input/output settings. If the [Preserve the Dante settings configured by Dante Controller] check box is selected, clear the check box.

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ct System B					
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14 MTX5-D					
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m U					

**3.** Click MTX5-D in [Receivers] and [Transmitters] to expand the display.

If the [04 MTX5-D] display is already expanded, leave it as it is.

🐻 MTX-MRX Editor - M	TX5-D Dante system-2.mtx		
<u>File</u> System <u>C</u> ontro	ller <u>A</u> bout		
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04 MTX5-D		EXT. I/0	XMV
YDIF 1-8 YDIF 9-	16 ANALOG DANTE		
	Preserve the Dante settings configured by Dante	Controller.	XMV Input Source YDIF ANALOG DANTE
	01 Sustem A	02 System B	
Transmitters	81 MTX5-D	04 MTXS-D	
Receivers 1 2 3 4 4 4 4 4 5 6 6 7 8 5 6 6 7 8 8 8 8 8 10 10 10 10 10 10 10 10 10 10 10 10 10		5 1 2 3 4 5 6 7 8 9 10 11 12 13 14	15 16
5			

4. Click the grid locations where 9 and 10 of the respective MTX5-D units intersect.

A  $\bigcirc$  symbol is shown on the grid.



**5.** In the upper left, click [EDIT] buttons to lock the settings.



## Storing a preset

Now we'll store the settings we've made up to this point as a preset. To store or recall a preset, click the camera icon in the upper part of MTX-MRX Editor.



When you click the camera icon, the "Preset" dialog box will appear. You can create up to 50 presets. Click the preset number that you want to store; the line will be selected. Then click the [Store] button, specify the preset name, and click the [OK] button.

### NOTE

If you don't store the preset, alert number 61 will occur.

This completes settings in the offline state. Save the settings once again.

## **Connecting the equipment**

After you've rack-mounted the MTX and your other equipment, connect the MTX and the other equipment as shown below. If you've copied audio sources to an SD memory card, insert the card into the MTX now. Here we will explain an example of redundant Dante connections. If you're using daisy-chain connections, refer to the Q&A.

## System A connections



## System B connections



To connect the MTX to your computer, use a CAT5e or higher cable with all eight pins connected.

# **Powering-on the MTX**

Turn on the power of the MTX. Turn off the amplifier before you power-off the MTX.

## Powering-on the amp

On the rear panel of the XMV, set the [SPEAKERS] DIP switch, and then turn on the power of the amps (XMV). To prevent unwanted sound from being output, we recommend that you turn down the attenuator settings of all channels on the amp itself before you turn it on.

To change the XMV attenuator setting, press the button of the appropriate channel and then turn the encoder.

### NOTE

- With the factory settings, the XMV's attenuators are set to the lowest value.
- For more about the [SPEAKERS] DIP switch, refer to the XMV owner's manual.

# Specifying the computer's TCP/IP address

To allow the MTX and the computer to communicate, specify the computer's TCP/IP as follows.

**1.** On the [System] menu, click [Network Setup].

The "Network Setup" dialog box will appear.

**2.** Click [Open Network Connection].

"Network Connections" will appear.

- **3.** Right-click the adapter to which the MTX is connected, and choose [Properties]. The "Local Area Connection Properties" dialog box will appear.
- **4.** Choose [Internet Protocol Version 4 (TCP/IPv4)], and then click [Properties]. The "Internet Protocol Version 4 (TCP/IPv4) Properties" dialog box will appear.
- 5. Click [Use the following IP address (S)].

# **6.** In the [IP address] box, enter "192.168.0.253"; in the [Subnet mask] box, enter "255.255.255.0."

#### NOTE

The IP address of each device is set as follows.

System A:	MTX5-D : 192.168.0.1 EXi8 : 192.168.0.2 EXo8 : 192.168.0.3
0	

System B: MTX5-D : 192.168.0.4 XMV4280 : 192.168.0.48 XMV4280-D : 192.168.0.49

Internet Protocol Version 4 (TCP/IPv4	) Properties
General	
You can get IP settings assigned auto this capability. Otherwise, you need t for the appropriate IP settings.	
Obtain an IP address automatica	lly
• Use the following IP address:	
IP address:	192.168.0.253
Subnet mask:	255.255.255.0
Default gateway:	
Obtain DNS server address auto	matically
• Use the following DNS server ad	dresses:
Preferred DNS server:	
Alternate DNS server:	
Validate settings upon exit	Ad <u>v</u> anced
	OK Cancel

## 7. Click [OK].

### NOTE

In some cases, Windows firewall may block MTX-MRX Editor when you make this setting. Select the [Private Network] check box, and click [Allow Access].

# **Taking MTX-MRX Editor online**

In the upper right of MTX-MRX Editor, click the [Online] button. When the unit has successfully come online, the indicator 1 and 2 at the left will light blue.



When the "Synchronization" dialog box appears, select "To Device," and click the [OK] button. When the indication in the dialog box has switched, select the system that you want to place online, and click the [Online] button. The project created in MTX-MRX Editor will be sent to the MTX.

		Synchronization		
		DIRECTION: To De	evice	
		SYSTEM	STATUS PROGRESS	
Synchronization		V System A	OFFLINE	details
To Device	○ From Device	System B	OFFLINE	details
		No Assign		details
		No Assign		details
	OK Cancel	System Message Select the systems t	o go online and then click [Onl	ine] button.
				Online Cancel

# **Making XMV settings**

If necessary, use the XMV's front panel to make settings such as the high pass filter. For more about the settings you can make on the XMV, refer to the XMV owner's manual.

# Verifying that the settings were applied

The main items to verify are listed below. For details on each parameter setting, refer to "MTX-MRX Editor User Guide." Perform these checks for each MTX/MRX System.

## **1.** Using the oscillator in the "ROUTER" screen, adjust the output level.

Adjust the amp's attenuator value to an appropriate level.

The attenuator values of the XMV can be adjusted in the popup that is accessed by the port/external device parameter recall button located in the output channel area of the "MAIN" screen.

## **2.** Specify the gain from the microphone.

You can set the gain in the dialog box that appears when you press the parameter recall button for a port or external device of an input channel in the "MAIN" screen. Watch the input meter, and adjust the setting appropriately.

### **3.** Set the input levels and output levels.

Using the input/output faders in the "MAIN" screen, adjust the levels. As necessary, apply the output limiter in the "CHANNEL EDIT" screen to prevent your speakers from being damaged. Adjust the amp attenuator values to obtain the optimal S/N ratio. In addition, make FBS settings as necessary.

**4.** Store the preset.

When you have finished making all settings, save the project and switch MTX-MRX Editor offline.

### This completes the settings for example 4.

# Example 5) A system using the PGM1 for paging

Place the "Paging" component, and assign broadcast destinations (zones, zone groups) or pre-recorded messages to the zone/message select buttons of the PGM1.

You can use the buttons to select the broadcast destination (multiple selections are allowed) and play back pre-recorded messages from the SD card.



Up to four PGM1 units can be connected to an MTX/MRX system that includes an MTX5-D. One PGM1 unit can control one MTX5-D, and this PGM1 together with the MTX5-D are collectively called a Paging Device Group. One of the PGM1 units within the Paging Device Group is the 1<sup>st</sup> Priority Mic; this unit can broadcast taking priority over the other PGM1 units.

There are three ways to use the PGM1.

## ■ Broadcast from the mic.

- **1.** Use the zone/message select buttons to select the broadcast area.
- **2.** Press the PTT button.

If specified, the Opening Chime is heard.

- 3. When the status indicator is lit red, speak into the mic.
- 4. When you finish speaking, press the PTT button.

If specified, the Closing Chime is heard.

## Play back a pre-recorded message from SD card

## **1.** Use the zone/message select buttons to select the broadcast area.

### 2. Use the zone/message select buttons to select the message that you want to play back.

### **3.** Press the PTT button.

If specified, the Opening Chime is heard. When the status indicator is lit red, the message plays. When message playback is completed, PTT automatically turns off. If specified, the Closing Chime is heard.

## Use the scheduler to play back a pre-recorded message from SD card

By issuing a Paging event, the specified message is played back to the specified zone or zone group.

## Using the Device Configuration Wizard to create your device setup

You will use MTX-MRX Editor's wizard to create your device setup before actually connecting your equipment. After you've made basic settings, you'll be able to print information about the cabling and ID numbers. Use the following procedure to make basic settings.

**1.** Type a name for the MTX/MRX system you'll be constructing, and click [Next>].

Device Configuration Wizard			×
System #1			
The Device Configuration Wizard guides you through the initial configuration of your system design, and configures device settings. Select and name a new configuration, edit an existing configuration, or clear an existing configuration.		a	
SYSTEM NAME System #1			
New			
Edit Configuration Changing the number of devices, type of devices and/or connection will initialize the settings of Word Clock and Dante.			
Go to Mini-YGDAI Card and Controller Setup.			
O Clear			
Cancel	< Bac	k Next >	Finish

# 2. Specify the number of units that will be connected in your MTX/MRX system, and click [Next>].

Set the number of "YDIF Connected" MTX5 units to 1, set the number of "DANTE Connected" PGM1 units to 1, and set the number of XMV8280-D units to 2.

🐻 Device Config	uration Wizard												×
Shopping Mall	ar of dovices which a	0.00		Analog, and/or Dante.					1.0 1.0				
				stem. After changing th	ie (	Configuration, re-	store the exis	ting Preset	t d	ata.	unig W		
A CONTRACTOR OF A CONTRACTOR A CONT	Connected			OG Connected		and the second se	TE Connecte	d		8			
DEVICE TYPE	Number		DEVICE TYPE	Number		DEVICE TYPE	Number			DEVICE TYPE	Number		
MRX7-D	0 •	-	XMV4140	0 •	*	PGM1	1	•	^	MCP1	0	•	*
MTX5-D	1		XMV4280	0 •		XMV4140-D	0	•					
MTX3	0 •		XMV8140	0 •		XMV4280-D	0	•					
EX18	0 •	=	XMV8280	0 •		XMV8140-D	0	•					
XMV4140	0 •		XMV4140-D	0 •		XMV8280-D	2	•					
XMV4280	0 •		XMV4280-D	0 •									
XMV8140	0 •		XMV8140-D	0 •									
XMV8280	0 •	-	XMV8280-D	0	-				-				-
Number of Assigr ·MTX/MRX Tota	ned Devices: I: 1 / 4 ·YDIF Total	1/	8			·MTX/MRX/XM	IV/EXio: 3	/ 20 · PG	M	1/MCP1: 1/20	Project	Fotal: 4/80	
								Cancel		< Back	Next >	Finish	

## 3. Specify the UNIT ID of each device, and click [Next>].

Unless you have specific reasons for doing so, use the UNIT ID that is assigned.

Device Configuration Wizard								×
Shopping Mall							-50.	
Set the Unit IDs. Match the Unit IDs in the list below to the If no devices are present yet, match the p			later.					
YDIF Connected DEVICE TYPE UNIT ID		OG Connected		DANTE Connected			Number	
DEVICE TYPE UNIT ID	DEVICE TYPE	UNITID	DEVICE TY	PE UNIT ID		EVICE TYPE	Number	
			^ PGM1	60 🗸				<u></u>
			XMV8280-	•D 30 •				
			XMV8280-					
			-		-			-
YDIF MODE DISTRIBUTION *								
				Cancel		< Back No	ext > Fi	inish

## **4.** Set the [UNIT ID] rotary switch and DIP switch of the devices.

Set the computer's IP address after completing the wizard, in "Specifying the computer's TCP/IP address." If the MTX, XMV, or PGM1 are not nearby, you can set them during the step "Connecting the equipment."



#### Make the following settings.



#### NOTE

Use the DIP switch to specify the upper digit of the UNIT ID, and use the [UNIT ID] rotary switch to specify the lower digit. For details, refer to the owner's manual or installation manual of each unit.



- **5.** When you've finished setting the device's [UNIT ID] rotary switch and DIP switch, click [Next>].
- **6.** Verify that the devices are shown in the screen, and click [Next>].

Tevice Configuration Wizard			
Shopping Mall			
The order of the YDIF connected devices	can be changed by dragging and droppin		
YDIF Connected DEVICE	ANALOG Connected DEVICE	DANTE Connected DEVICE	DEVICE
01 MTX5-D		60 PGM1	· ·
		30 XMV8280-D	
		31 XMV8280-D	
Refresh		Cancel	< Back Next > Finish

7. Set the number of PGX1 units to 1.

🐻 Device Configura	ation Wizard							- 8888 · ·	×
Shopping Mall						8			
	er of PGX1 extension device					- Aller	(). IT	······································	
	1 to MTX5-D Paging Device	Group by drag	g and drop.		-2				
Assigr DEVICE	n PGX1 to PGM1 PGX1		Group Host	1st Priority MIC	Paging Device MIC2	Group MIC3	MI	C4	
60 PGM1	1		1 01 MTX5-D	60 PGM1	moz	intoc		04	
PC	Ethernet Switch	PGM 1		PGX 1					
						Cancel	< Back	Next >	Finish

## **8.** Set the PGM1's [UNIT ID] rotary switch and DIP switch.

If the device is not nearby, you can set it during the step "Connecting the equipment." Make the following settings.

PGM1	
	UNIT ID = 60 [UNIT ID] rotary switch = 0 DIP switch = 2 and 3 are ON (downward), others are OFF (upward)

**9.** When you've finished setting the PGM1's [UNIT ID] rotary switch and DIP switch, click [Next>].

## **10.** Select the Mini-YGDAI card, and click [Next>].

Since a Mini-YGDAI card is not used in this example, leave this as [No Assign] and click [Next>].

🐻 Device Config	guration Wizard						<b>x</b>
Shopping Mall							
Select the Mini-	YGDAI card.				· .	D	
			Mini-YGDAI Card	(R. a.			
DEVICE	CARD TYPE	INFORMATION	initia robai curu	 			
01 MTX5-D	No Assign 🔻	]					
				Cancel	< Back	Next >	Finish

# **11.** Choose the model of DCP that will be connected to the MTX, enter a device name, and click [Finish].

Since a DCP is not used in this example, leave the setting without change.

C Device Configuration Wizard	
Shopping Mall Assign and name the Digital Control Panels connected to each MTX or MRX. Star topology using DCH8 is also possible.	
DEVICE 01 MTX5-D	
ID MODEL Name	
0 None •	
1 None	
2 None	
3 None	
4 None	
5 None	
6 None	
7 None •	
	Cancel < Back Next > Finish

**12.** When you see the dialog box "Display the configuration diagram? The diagram can also be printed." click [Yes].



A cabling diagram will appear. If you want, click [Print] to print the diagram.

To close the screen, click [Close].

🐻 Configuration Dia	jram			<b>EX</b>
Ethernet	Connect the computer and devices to an Ethernet	Important - Always set DCP DIP switch 4 (termin: from each MTX or MRX (only set for one DCP per		gest DCP cable run
Shopping Mall				
DEVICE	YDIF DCP	n example of a daisy-chain connection.	ANALOG	DANTE
01 MTX5-D				30 XMV8280-D 31 XMV8280-D
			>>Page	2 Print Close

#### NOTE

If you want to view the cabling diagram again, choose [File] menu  $\rightarrow$  [Print Configuration Diagram].

If you want to use the Device Configuration Wizard to change the device configuration, click the [Device Config] button in the Project screen.



## Making preliminary settings in MTX-MRX Editor

Here's how to make detailed MTX/MRX system settings in MTX-MRX Editor. When you've finished making settings, you should save them by clicking [File] menu, then [Save].

#### NOTE

The "User Account Control" dialog box may appear. Click [Continue] or [Yes].

## ■ EXT. I/O settings

Here you'll make settings for inputting and outputting digital audio. Click the SYSTEM tab to access the setting screen.

Move to the setting screen by clicking the tab of the system name you specified in step 1 of "Using the Device Configuration Wizard to create your device setup."

Project	Shoppin	g Mall
01 MTX5	-D	
MAIN	INPUT	MATRIX

## **1.** Click the [EXT. I/O] button.

The "EXT. I/O" screen appears.

TX-MRX Editor				
<u>File</u> System Controller About				
🗋 📥 📥	EDIT	<ul> <li>Image: Image: Ima</li></ul>	01 02 03 04 Onlin	ne Offline 🖋
Project Shopping Mall				
01 MTX5-D		EXT. I/O	XMV	
	DANTE			
EDIT- YDIF 1 YDIF 2		DIF 4 YDIF 5	YDIF 6 YDIF 7	YDIF 8
01 MTX5	0 0	0 0	0 0	0
MTX5-D OUT1 > OUT2	> OUT3 > OU	T4 2 OUT5 2	0UT6 > 0UT7 >	OUT8 >
			<u> </u>	i in in
			<u> </u>	i i i i
			i i i	i in
			i i i i	i i i i
			<u> </u>	

## 2. Click the [DANTE] button.

The Dante setting screen appears.

TX-MRX Editor		
<u>File System Controller About</u>		
	Image:	01 02 03 04 Online Offine 💉
Project Shopping Mall		
01 MTX5-D	EXT. 1/0	XMV
YDIF 1-8 YDIF 9-16 ANALOG DANTE		
EDIT Preserve the Dante settings configured by Dante Controller.		XMV Input Source YDIF ANALOG CANTE
III.S.           Transmitters           BI MTNS-D           BI MTNS-D		

## **3.** Click the [EDIT] button.

Now you can specify Dante input/output settings.



**4.** Click the MTX5-D in [Receivers] and [Transmitters], and the XMV8280-D in [Receivers], so that they are expanded.

If they are already expanded, leave them as they are.

	TX-MRX E												
<u>F</u> ile		<u>C</u> ontroller	About										
	<b>1</b>			EDIT			D) 8		D OP (	3 4	Online	Offline	ø
Pr	oject	Shoppin	ig Mall										
	01 MTX5-						EXT. I/0				XMV		
YD	IF 1-8	YDIF 9-16	ANALOG	DANTE	_								
	EDIT	Pres	erve the Dant	te settings confi	aured by Danti	e Controller.		XMV Ine	ut Source 📃	YDIF	ANALOG	DANTE	
		_	_	81 Shopping Mall	_								
	Transmitte		10 - 10 - 10 - 10	01 MTX5-D		68 PGM1							
81 Shopeina Mali	Receivers G-SXLW 19	1         2           1         -           2         3           4         -           5         -           6         -           7         -           8         -           9         -           10         -           11         -           12         -           13         -           14         -           15         -           16         -           8         -											
0	3 XMV8288-D	C D E F											

- **5.** Click the location where the "1" of the PGM1 and MTX5-D intersect.
  - $A \bigcirc$  appears in the grid.



**6.** Scroll so that the XMV inputs are visible.

TX-MR								
	m <u>C</u> ontroller	<u>A</u> bout	EDIT		· • •	od od o	3 4 Online	Offline 💋
Project	Shoppin	g Mall		~				
01 MT					EXT. I/O		XMV	
YDIF 1-8	YDIF 9-16	ANALOG	DANTE					
E	Prese			d by Dante Controller.		XMV Input Source	YDIF ANALOG	DANTE
	_	01 SI	hopping Mall					
Transm	itters	01 H	WTX5-D	60 PGM1				
Receive	ers 12;	345678	3 9 10 11 12 1					
	12							
=	13 14							
61 Shopping Mall	15 16							
Shop	B							
9. 0-988-D	C							- I.
19 U-Necentry Net	E							
8	6							
	H A							=
e e	B							
U-88680WX	D E							
e e e e e e e e e e e e e e e e e e e	F							
	н							

7. By clicking the grid locations where the XMV's inputs and the MRX's outputs intersect, set the UNIT ID 30 XMV unit's A and B to 1, its C and D to 2, and its E and F to 3; set the UNIT ID 31 XMV unit's G and H to 8.



- 🐻 MTX-MRX Editor - • × <u>File System Controller About</u> 📤 🐁 📥 💽 🛋 🖉 Offline EDIT Online ø oing Mall EXT. I/O 01 MTX5-D хмх IF 1-8 XMV Input Source YDIF ANALOG DANTE EDIT Pn e the Dante settings configured by Dante Conti 01 Shopping Mall 01 MTX5-D 1 2 3 4 5 6 7 8 9 18 11 12 13 14 15 16 1 38 XMV8286
- 8. Click the [EDIT] button to lock the settings.

## Specifying the MTX configuration

Here you'll specify how the MTX's input jacks and output jacks will be handled. On the [System] menu, click [MTX Configuration] to open the "MTX Configuration" dialog box. For this example, apply the following changes.

## • INPUT

Change SD IN L/R from [STEREO] to [SUM]; then in the "INPUT CHANNEL SETUP" area, change 11/12, 13/14, and 15/16 from [MONO × 2] to [STEREO].

INPUT PORT SETUP		INPUT CHANNEL	SETUP		
	SIGNAL TYPE		SIGNAL TYPE		SIGNAL TYPE
ST IN 1L/1R	STEREO	▼ 1/2	MONO x 2	<ul> <li>STIN1</li> </ul>	STEREO -
ST IN 2L/2R	STEREO	▼ 3/4	MONO x 2	STIN2	STEREO 🔻
SD IN L/R	SUM	▼ 5/6	MONO x 2	<ul> <li>STIN3</li> </ul>	STEREO 🔻
		7/8	MONO x 2	• 17/18	MONO x 2 🗸
		9/10	MONO x 2	• 19/20	MONO x 2 🗸
		11/12	STEREO	• 21/22	MONO x 2 🔹
		13/14	STEREO	23/24	MONO x 2
		15/16	STEREO	-	

## • OUTPUT

In the "MATRIX BUS SETUP" area, change MATRIX7/8 from [STEREO] to [MONO  $\times$  2].

ATRIX BUS SETUP		CASCADE MODE			OUTPUT CHANNE	L SETUP
	SIGNAL TYPE					SIGNAL TYPE
MATRIX 1/2	MONO x 2	<ul> <li>MATRIX1</li> </ul>	ON	•	1/2	1WAY x 2
MATRIX3/4	MONO x 2	MATRIX2	ON	<b>v</b>	3/4	1WAY x 2
MATRIX5/6	MONO x 2	▼ MATRIX3	ON	▼	5/6	1WAY x 2
MATRIX7/8	MONO x 2	▼ MATRIX4	ON	Ψ.	7/8	1WAY x 2
MATRIX9/10	MONO x 2	MATRIX5	ON	▼	9/10	1WAY x 2
MATRIX11/12	MONO x 2	▼ MATRIX6	ON	•	11/12	1WAY x 2
MATRIX13/14	MONO x 2	MATRIX7	ON	•	13/14	1WAY x 2
MATRIX15/16	MONO x 2	▼ MATRIX8	ON	*	15/16	1WAY x 2

After making the settings, click the [OK] button to confirm the settings.

## Settings in the "MAIN" screen

In the "MAIN" screen you can make overall settings for each channel. Click the [01 MTX5-D] button to access the MTX "MAIN" screen. For details on each parameter, refer to "MTX-MRX Editor User Guide." Here you'll make the following settings.

- Input/output port settings
- Channel name settings
- Channel on/off settings
- Gain and phantom power settings
- (As necessary) EQ settings



## INPUT settings

In INPUT you can make the following settings.



### Port select button

Click this to open the "Input Patch" dialog box. For this example, apply the following changes. After making the settings, click the [Close] button.

CH1	DANTE 1
CH2 through CH8 CH17 through CH24	No assignment (click an assigned button to specify no assignment)
CH9 through CH16	INPUT 1 through INPUT 8

## Port / External Device parameter access button

This button lets you adjust the gain and turn phantom power on/off. When you click the button, a popup window will appear, allowing you to adjust the gain and turn phantom power on/off. Make the desired settings, and then in the upper right,  $click \times to close$ the popup window. The appropriate gain



level will depend on the devices that are connected, so set the level appropriately for your devices.

Since audio sources for background music are connected to CH11/12, CH13/14, and CH15/16, lower the gain to 0 dB.

## EQ / HPF (High Pass Filter)

Click this to switch to the "CHANNEL EDIT" screen. Adjust the EQ and HPF appropriately for the mic you're using. For ST IN, only EQ is available. When you want to return to the "MAIN" screen, click the [MAIN] button.

### FBS (Feedback suppressor)

FBS is provided on INPUT CH1 through CH8. We recommend that mic inputs, and particularly movable mics such as wireless mics, be connected to CH1 through CH8. When you click here, you will switch to the FBS setting screen. When you want to return to the "MAIN" screen, click the [MAIN] button. For details on FBS settings, refer to "MTX-MRX Editor User Guide."

### [ON] button

This button turns the channel on/off. Turn off unused channels.

### Fader

This adjusts the input level. Leave the fader at  $-\infty$  until the system goes online.

### Channel name

You can double-click this to edit the name. In this example, names have been assigned as follows.

 uns enumpre,		e e e in ussigne a		
CH1	1st Mic		CH15/16	В

CH1	1 <sup>st</sup> Mic		CH15/16	BGM
CH9	Event Space Mic1		STIN1	BGM <sup>-</sup>
CH10	Event Space Mic2		STIN2	BGM
CH11/12	I1/12 BGM (Luxury)		STIN3	SD
CH13/14	BGM (Casual1)			

	CH15/16 STIN1 STIN2		BGM (Casual2)			
			BGM1			
			BGM2			
		STIN3	SD			

## OUTPUT settings

In OUTPUT you can make the following settings.

# OUT1 Port select button Port / External Device parameter access button Room DELAY / Room EQ -SP DELAY PEQ Speaker processor LIM SEL [ON] button ON Fader 0.00 Channel name Luxury OUT1

## Port select button

Click this to open the "Output Patch" dialog box. For this example, apply the following changes. After making the settings, click the [Close] button.

CH1 through CH8	DANTE 1 through DANTE 8
CH9 through CH16	No assignment (click an assigned button to specify no assignment)

## Port / External Device parameter access button

When you click this button, the MTX output jack parameter edit screen will appear as a popup.

## DELAY / Room EQ

Click this to move to a screen where you can set delay and room EQ.

### Speaker processor

Click this to switch to the "CHANNEL EDIT" screen. Make the appropriate settings for the speakers that will be connected.

### NOTE

The pre-installed library contains speaker processor files that are appropriate for the response of various speakers. By using these files you can make speaker processor settings easily.

## [ON] button

This button turns the channel on/off. Turn off unused channels.

### Fader

This adjusts the output level.

### **Channel name**

You can double-click this to edit the name. In this example, names have been assigned as follows.

OUT1	Luxury		
OUT2	Casual1		
OUT3	Casual2		
OUT4	Casual3		
OUT5	Event Space		
OUT6	Food Court		
OUT7	Entrance		
OUT8	Restrooms		

## Settings in the "MATRIX" screen

Here you can specify which input channel will be sent to which zone. For details on send level and other parameters, refer to "MTX-MRX Editor User Guide."



In this example, make the settings shown in the above illustration. Clicking or dragging a cross point (a square area) will switch it on/off. Right-clicking a cross point will display a context menu. By selecting [All OFF] you can turn all cross points off. The cross point shows the send level as the height of green.

With these settings, Event Space Mic1/2 are sent to the Event Space area, BGM (Luxury) is sent to the Luxury area, BGM (Casual1) is sent to the Casual 1 area, BGM (Casual2) is sent to the Casual 2 area and Casual 3 area, BGM1 is sent to the Food Court area, and BGM2 is sent to the Entrance area and the Restrooms area.

The PGM1 which is assigned to CH1 is specified in the following "ZONE" screen. If CH1 is turned on in MATRIX, the input from PGM1 is output to the zone even if PTT is off.

The input channel faders in the lower left of the screen indicate the input level for faders that are grayed-out, and indicate the input channel send level for faders that are not grayed-out. Grayed-out faders cannot be operated in this screen.



Paging signal flow

## Settings in the "ZONE" screen

In the "ZONE" screen you can make PGM1 settings. Click the [PAGING] button to switch to the setting screen for paging broadcast.



1. In the "PAGING SOURCE" area, choose [NONE] in the list boxes for MIC 2 through MIC 4.



2. In the ZONE GROUP area, double-click [Group 1] and change the name to "All ZONE"; then turn on ZONE1 through ZONE8 (Luxury through Restrooms). In the same way, rename [Group 2] to "Exclude Evt. Spc," and turn on ZONE1 through ZONE8 with the exception of ZONE5 (Event Space).

All ZONE is the zone group for broadcast to the entire building, and Exclude Evt. Spc is a group for broadcast to the entire building without interrupting an event that is being held.

ZONE ZONE GROUP	Luxury	Casual 1	Casual 2	Casual 3	Event S	Food Co	Entrance	Restrooms
All ZONE								
Exclude Evt.Spc								
Group 3		2		2		8		
Group 4				8		8		

## **3.** Click the [Settings] button.

The "PGM1/PGX1" dialog box appears.

PGM1/PGX1										
01 MTX5-D										
Fur	Function Assign Properties									
				1		=				
	FUNCTION	PARAMETER		FUNCTION	PARAMET	ER				
1	No Assign 🔹		5	No Assign	•					
2	No Assign 👻		6	No Assign	•					
3	No Assign 👻		7	No Assign	•					
4	No Assign 👻		8	No Assign	•					
0 P	GX1					=				
1	No Assign 👻		5	No Assign	•					
2	No Assign 👻		6	No Assign	•					
3	No Assign 👻		7	No Assign	•					
4	No Assign 👻		8	No Assign						
1 P	GX1				- 00	=				
1	No Assign 👻		5	No Assign	•					
2	No Assign 👻		6	No Assign	•					
3	No Assign 👻		7	No Assign	•					
4	No Assign 👻		8	No Assign	•					
	Label Creator OK Cancel									

## **4.** Make assignments to zone/message select buttons.

In this example, make the following assignments.

PGM1/PGX1									
01 MTX5-D									
Function Assign Properties									
=									
	FUNCTION	PARAMETER			FUNCTION	PARAMETER			
1	Zone 🔻	1:Luxury	•	5	Zone 🗸	5:Event Space 🗸			
2	Zone 👻	2:Casual 1	•	6	Zone 🗸	6:Food Court			
3	Zone 🔻	3:Casual 2	•	7	Zone 🔻	7:Entrance 🗸			
4	Zone 🔻	4:Casual 3	•	8	Zone 🗸	8:Restrooms 🗸			
0 F	PGX1	^							
1	Zone Group 🗸	1:All ZONE	•	5	Zone Group 🗸	2:Exclude Evt.Spc 🗸			
2	SD Message 🗸	Message.mp3		6	No Assign 👻				
3	No Assign 👻			7	No Assign 👻				
4	No Assign 🗸			8	All Zone Off 🛛 👻				
1 F	PGX1	,			<u></u>				
1	No Assign 👻			5	No Assign 👻				
2	No Assign 👻			6	No Assign 👻	1			
3	No Assign 👻			7	No Assign 👻				
4	No Assign 👻			8	No Assign 👻				
Label Creator OK Cancel									

	1		1:Luxury	
	2		2:Casual 1	
	3		3:Casual 2	
PGM1	4	Zone	4:Casual 3	
PGMT	5	Zone	5:Event Space	
	6		6:Food Court	
	7		7:Entrance	
	8		8:Restrooms	
	1	Zone Group	1:All ZONE	
	2	SD Message	Message file to play back	
	3	No Assign		
0 PGX1	4	NO ASSIGN		
UPGAT	5	Zone Group	2: Exclude Evt. Spc	
	6	No Assign		
	7	NO ASSIGN		
	8	All Zone Off		
**5.** If necessary, click the [Label Creator] button to create labels for the PGM1/PGX1. The "PGM1 Label Creator" application starts. Here you can create a print image to use as a label for the PGM1/ PGX1 units.

PGM1 Label Creator	×
1 2 3 Export Import	
Cell	Font Settings
	MS UI Gothic 🔹
	9 ▼ BIU
	Color
	Alignment Left 💌
	Character Spacing 0 🚖
	Line Spacing 0 🚔
Preview	0 Up 0 Left Right Reset Down
	Background Settings
	Import Clear
	0 Up 0 Left Right Reset Down
	Background Color
Print All Clear	OK Cancel

### 6. Design the label that you want to print.

For details on the settings, refer to "PGM1 Label Creator" application in the "MTX-MRX Editor User Guide."

PGM1 Label Crea	tor	
123	Export Import	
Cell		Font Settings
Laxury	Casual 1	MS UI Gothic
Casual 2	Casual 3	Color
Event Space	Food Court	Alignment Right  Character Spacing 0
Entrance	Restrooms	Character Spacing 0 🙅 Line Spacing 0 🙅
Preview		0 Up 0 Left Right Reset Down
Laxury	Casual 1	Background Settings
Casual 2	Casual 3	Import Clear
Event Space	Food Court	0 Up 0 Left Right Reset
Entrance	Restrooms	Down
		Background Color
Print	All Clear	OK Cancel

# 7. Click the [Print] button to print, or click the [Export] button to save as a file; then click the [OK] button.

#### 8. Click the [Properties] tab.

You'll switch to a screen where you can make settings that specify how the PGM1 will operate.

PGM1/PGX1		<b>X</b>
01 MTX5-D 🔹 60 PGM1 (1st Pr	riority)    Unlatch Enable	
Function Assign Properties		
MTX/MRX System When system enters emergency mode, Block all paging. Block paging except for 1st priority PGM1	L	
Paging Device Group		
Opening Chime		
Closing Chime		
Maximum paging duration	120s •	
Give priority to paging events set via Sch	eduler (except for 1st priority PGM1).	
	Label Creator OK Ca	ancel

**9.** Turn on the [Block paging except for 1st priority PGM1.] option button.

**10.** Select the [Opening Chime] and [Closing Chime] check boxes, and select the chime audio files.

1 MTX5-D 🔹 60 PGM1 (1	Priority)   Unlatch Enable	
Function Assign Properties		
MTX/MRX System When system enters emergency mode, Block all paging. Block paging except for 1st priority P	м1.	
Paging Device Group		
Opening Chime	Opening.mp3	
Closing Chime	Closing.mp3	
Maximum paging duration	120s 🔹	
Give priority to paging events set via	cheduler (except for 1st priority PGM1).	

**11.** Click the [OK] button to close the dialog box.

#### Storing a preset

Now we'll store the settings we've made up to this point as a preset. To store or recall a preset, click the camera icon in the upper part of MTX-MRX Editor.



When you click the camera icon, the "Preset" dialog box will appear. You can create up to 50 presets. Click the preset number that you want to save; the line will be selected. Then click the [Store] button, specify the preset name, and click the [OK] button.

#### NOTE

If you don't save the preset, alert number 61 is generated.

Specify recall filter settings as necessary. In this example, the settings prevent the XMV's output channels from being recalled.



This completes settings in the offline state. Save the settings once again.

### **Connecting the equipment**

After you've rack-mounted the MTX and your other equipment, connect the MTX and the other equipment as shown below. If you've copied audio sources to an SD memory card, insert the card into the MTX now.



### Power-on the PoE-equipped gigabit network switch

The PGM1 starts.

### Power-on equipment other than amps and powered speakers

Power-on equipment other than amps and powered speakers.

When powering-off equipment other than amps and powered speakers, start by powering-off the amps and powered speakers.

### Power-on amps and powered speakers

Power-on amps and powered speakers.

To prevent unwanted sound from being output, we recommend that you minimize the attenuator settings of all channels on the amp or powered speaker itself before you turn it on.

### Specifying the computer's TCP/IP address

To allow the MTX and the computer to communicate, specify the computer's TCP/IP as follows.

- **1.** On MTX-MRX Editor's [System] menu, click [Network Setup]. The "Network Setup" dialog box will appear.
- 2. Click [Open Network Connection].

"Network Connections" will appear.

- **3.** Right-click the adapter to which the MTX is connected, and choose [Properties]. The "Local Area Connection Properties" dialog box will appear.
- **4.** Choose [Internet Protocol Version 4 (TCP/IPv4)], and then click [Properties]. The "Internet Protocol Version 4 (TCP/IPv4) Properties" dialog box will appear.
- 5. Click [Use the following IP address (S)].

## **6.** In the [IP address] box, enter "192.168.0.253"; in the [Subnet mask] box, enter "255.255.255.0."

#### NOTE

The IP address of each device is set as follows.

MTX5-D: 192.168.0.1 XMV8280-D: 192.168.0.48 PGM1: 192.168.0.96

Internet Protocol Version 4 (TCP/IPv4) Properties				
General				
You can get IP settings assigned au this capability. Otherwise, you need for the appropriate IP settings.				
Obtain an IP address automati	cally			
O     Use the following IP address:				
IP address:	192.168.0.253			
Subnet mask:	255.255.255.0			
Default gateway:				
Obtain DNS server address aut	tomatically			
• Use the following DNS server a	ddresses:			
Preferred DNS server:	· · · · · · · · · · · · · · · · · · ·			
Alternate DNS server:	• • •			
Validate settings upon exit	Ad <u>v</u> anced			
	OK Cancel			

### 7. Click [OK].

#### NOTE

When you make these settings, the Windows firewall might block MTX-MRX Editor. Select the [Private Network] check box, and click [Allow Access].

### **Taking MTX-MRX Editor online**

In the upper right of MTX-MRX Editor, click the [Online] button. When the unit has successfully come online, indicator 1 at the left will light blue.



When the "Synchronization" dialog box appears, select "To Device," and click the [OK] button. When the indication of the dialog box has changed, select the check box(es) of the system(s) that you want to bring online, and then click the [Online] button.

The project created in MTX-MRX Editor will be sent to the MTX.

		Synchronization			
		DIRECTION: To Device			
			SYSTEM	STATUS	PROGRESS
· .			System A	OFFLINE	details
Synchronization			System B	OFFLINE	details
To Device	From Device			Contracting to	
			No Assign	LOST	details
			No Assign	LOST	details
			System Message Select the systems t	o do online an	d then click [Online] button.
	OK Cancel				
		-			
					Online Cancel

### **Making XMV settings**

If necessary, use the XMV's front panel to make settings such as for the high pass filter. For more about the settings you can make on the XMV, refer to the XMV owner's manual.

### Verifying that the settings were applied

The main items to verify are listed below. For details on each parameter's settings, refer to "MTX-MRX Editor User Guide."

#### **1.** Use the oscillator in the "ROUTER" screen to adjust the output level.

Adjust the attenuator values of the amps to appropriate levels.

The XMV's attenuator values can be adjusted in a popup that is recalled by the port/external device parameter access button in the output channel area of the "MAIN" screen.

#### 2. Specify the gain from the mics.

Specify the gain in the dialog box that is recalled by the port/external device parameter recall button in the input channel area of the "MAIN" screen. Watch the input meter, and adjust the setting appropriately.

#### 3. Specify the input levels and output levels.

Using the input/output faders of the "MAIN" screen, specify the levels. As necessary, apply the output limiter in the "CHANNEL EDIT" screen to prevent your speakers from being damaged. Adjust the amp's attenuator value to obtain the optimal S/N ratio. In addition, make FBS settings as necessary.

#### 4. Store the preset.

When you have finished making all settings, save the project and switch MTX-MRX Editor offline.

#### This completes the settings for example 5.

## Q&A



A: The order is very important. If you ignore the order, it will not be possible to correctly specify the YDIF routing. Make connections according to the "Configuration Diagram" displayed in [File] menu  $\rightarrow$  [Print Configuration Diagram].

**1** How should I make connections when daisy-chaining the Dante network connections in example 4?

#### **A:** Make connections as follows.

Do not route the connection from the System B network switch to the System B XMV4280-D via the System A net-





**Q:** How should I make connections when daisy-chaining the Dante network connections in example 5?

### **A:** Make connections as follows.

This example change to a PoE injector from a PoE network switch. Connect the PGM1 to a port that supplies power.



## Uninstalling the software (Removing the application)

Use "Settings" to uninstall the software.

Right click [Start] $\rightarrow$ [Settings] $\rightarrow$ [Apps], select the item you want to uninstall, and then click [Uninstall].

A dialog box will appear; follow the instructions in the screen to uninstall the software.

If the "User Account Control" dialog box appears, click [Continue] or [Yes].

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