# **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 Editor control software. Please refer to the owner's manual on a device about the details of MTX, and refer to the "MTX Editor User's Manual" (PDF file) about the details of MTX Editor.

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# Introduction

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

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

For detailed parameter settings, refer to "MTX Editor User's Manual" and to the owner's manuals of the XMV, MTX, and DCP.

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

#### • 32-bit operating system

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

#### • 64-bit operating system

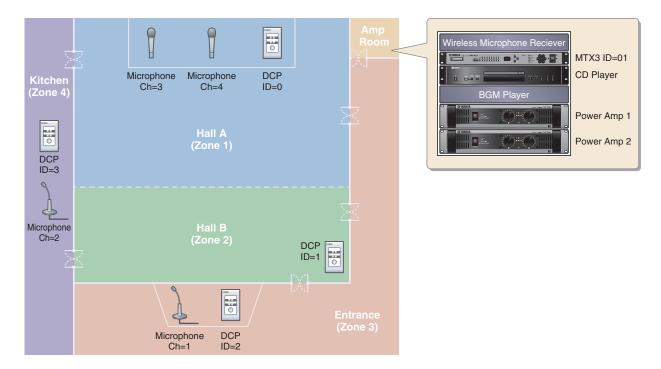
C:\Program Files(x86)\Yamaha\MTX Editor\V\*.\*\ProjectFile

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

Example 1 : MTX3 basic system-\*.mtx Example 2 : MTX3 XMV digital system-\*.mtx Example 3 : MTX3 cascade example-\*.mtx Example 4 : MTX5-D Dante system-\*.mtx

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

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

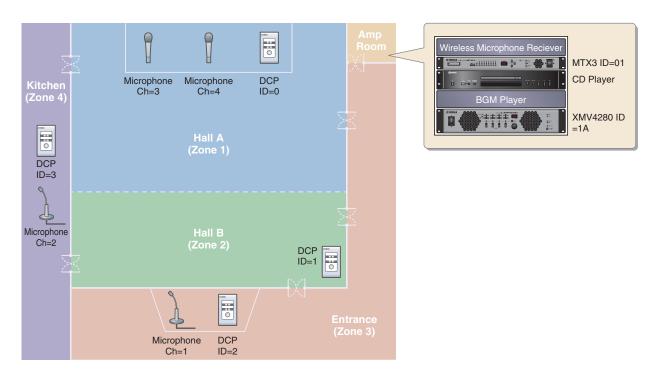


This example assumes that you're using the following equipment.

- 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 × 1
- Paging microphones with switch × 2
- Wireless microphone receivers (2 channels)
- Wireless microphones  $\times 2$

#### 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.

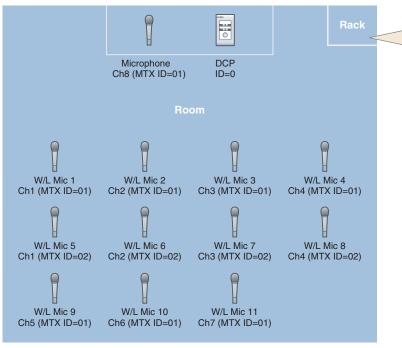


This example assumes that you're using the following equipment.

- MTX3 × 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 × 1
- Network switch  $\times 1$
- Paging microphones with switch  $\times 2$
- Wireless microphone receivers (2 channels)
- Wireless microphones × 2

#### 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.

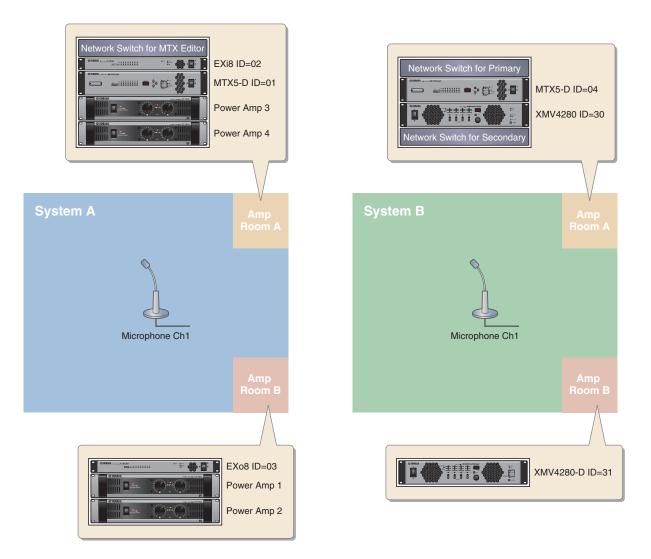
- MTX3 × 2
- XMV4280 (or an amp with analog input)  $\times 1$
- Background music source such as a CD player × 1
- Speakers (the number needed)
- Microphone with switch (for the MC or chair)  $\times 1$
- Wireless microphone receivers (11 channels)
- Wireless microphones × 11

#### 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 × 1

#### System B

- MTX5-D × 1
- XMV4280 × 1
- XMV4280-D × 1
- Network switch × 2\*
- Speakers (the number needed)
- SD memory card × 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.

# **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 Editor.

		Example 1	Example 2	Example 3	Example 4	
Installing MTX Edito	r	Page 6				
Starting up MTX Ed	itor			Paç	ge 7	
Using the Device Co	onfiguration Wizard to create your dev	vice setup	Page 8	Page 29	Page 54	Page 81
		YDIF	—	Page 34	—	Page 93
	Making EXT. I/O settings	XMV (Analog)	—	—	Page 59	—
		XMV (Dante)	—	—	—	Page 106
Making preliminary	Parameter settings for the MTX and (Parameter settings such as for jack		Page 13	Page 38	Page 62	Page 98, 112
settings in MTX Editor	Settings in the "DCA" screen (Settings that control the level or mu channels in a single operation)	ettings that control the level or mute of multiple		_	Page 71	_
	Digital Control Panel (DCP) settings	3	Page 20	Page 45	Page 72	_
	Storing a preset (Presets and recall	filter settings)	Page 22	Page 47	Page 73	—
	Dante settings between systems		—	—	—	Page 115
Connecting the equi	pment		Page 25	Page 50	Page 76	Page 121
Powering-on the MT	X		Page 25	Page 51	Page 77	Page 123
Powering-on the am	р		Page 25	Page 51	Page 77	Page 123
Specifying the comp	outer's TCP/IP address	Page 26	Page 51	Page 77	Page 123	
Taking MTX Editor of	online		Page 27	Page 52	Page 78	Page 125
Making XMV setting	S		—	Page 53	Page 79	Page 125
Verifying that the se	ttings were applied		Page 28	Page 53	Page 79	Page 126

## **Installing MTX Editor**

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

http://www.yamahaproaudio.com/

#### **System Requirements**

OS Windows 7 Home Premium or higher Windows 8		
CPU	Core i3/5 or better	
Memory	4 GB or more	
H.D.D	150 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 Editor version 1.2.0. 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 Editor.

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

The MTX 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 Editor again.

http://www.yamahaproaudio.com/

## **Starting up MTX Editor**

Follow the steps below to start up MTX Editor.

**1.** Double-click the MTX 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 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 8 "Using the Device Configuration Wizard to create your device setup" for example 2: Page 29 "Using the Device Configuration Wizard to create your device setup" for example 3: Page 54 "Using the Device Configuration Wizard to create your device setup" for example 4: page 81

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

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

You will use MTX 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 system you'll be constructing, and click [Next>].

Device Configu	uration Wizard					-X
System #1			1.5			
and configures (	figuration Wizard guide device settings; e a new configuration, e					
SYSTEM NAME	System #1					
New						
C EBI Configur	ation constrait of descrise. No	pe ut toyines and/or of	innaction will include:	the settings of	World Cluck w	nd Danke.
Cinar						
			Cancel	< Back	Next >	Finish

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

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

MTX3 basic sy	stem				6.3	51 KK:		
	er of devices whic X device must exis					ration, re-store the	e existing Preset	t data
YDI	FConnected		ANAL	OG Connected		DAN	TE Connected	
DEVICE TYPE	Number		DEVICE TYPE	Number		DEVICE TYPE	Number	
MTX5-D	0	•	XMV4140	0	•	XMV4140-D	0	•
MTX3	[1	•	XMV4280	0	•	XMV4280-D	0	
EXIS	0	•	XMV8140	0	•	XMV8140-D	0	
XMV4140	0	•	XMV8280	0	•	XMV8280-D	0	~
XMV4280	0	•	XMV4140-D	0	-			
XMV8140	0	•	XMV4280-D	0	J			
XMV8280	0	- - -	XMV8140-D	0	- -			
XMV8280	0		XMV8140-D	0	33			

## **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 Config	guration Wizard						X
MTX3 basic sy	stem				3123-		-5
	). Ds in the list below to th e present yet, match the			m lat	er.		
YDIF	F Connected	ANAL	OG Connected		DAN	TE Connected	<u>_</u>
DEVICE TYPE	UNIT ID	DEVICE TYPE	UNITID		DEVICE TYPE	UNITID	
	01 -			~			
YDIF MODE	NISTRIBUTION T	5					
			Cancel		< Back	lext > Fini	sh

#### **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."

Device Configuration Wizard	
MTX3 basic system	
Set the Unit ID with the [UNIT ID] rotary switch and D Connect the computer and the device directly using	
PC	MTX5-D
	MTX3
Set IP SETTING (DIP switch 6) to the [UNIT ID] positio After setting, reboot the device. Set the computer's IP Address to 192.168.0.253 and f	
	Cancel < Back Next > Finish

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>].

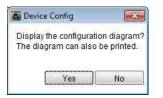
Device Configuration Wizard					
MTX3 basic system					
The order of the YDIF connecte (only for devices within the sar		ging and dropping			
YD)F Connected	ANALOG Con			ANTE Connect	ed
DEVICE	DEVICE	Tal	DEVICE		
01 MTX3					
Refresh		Cancel	< Back	Next >	Finish

**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	Config	guration Wizard					<b>.</b>
MTX3 ba	isic sy	stem					
Assign a	nd nar	me the Digital Control Par	iels connected to each	MTX.			
DEVICI	0	1 MTX3 🔹					
ID		MODEL	Name				
0	10	DCP1V4S-US/EU ·	] Hall A	- *			
1	10	DCP1V4S-US/EU ·	) Hall B				
2	Ho	DCP1V4S-US/EU *	Entrance				
3	Ho	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 Dia	agram												×
Ethernet	Connect the com using Ethernet c		vice directly		Set			on) to the ON DCP of each I					
DEVICE		Digital Cont	ID=1	0H 1 2 3 4 ID=2	0N 1 2 3 4 ID=3	0H 12.54 ID=4	ID=5	7 5 3	0H 1 2 3 4 1 2 3 4 1 2 3 4	ANALOG	D	ANTE	
01 MTX3		Ö	0	O									
												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).

2	3	4	J

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 Editor

Here's how to make detailed MTX system settings in MTX 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	MTX3 basic system								
01 MTX3									
MAIN	INPUT	MATRIX	ZONE						

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.

evice: 01 MT								
INPUT PORT SETUP		MATRIX BUS SETUP		CASCADE	MODE	OUTPUT	OUTPUT CHANNEL SETU	
	SIGNAL TYPE		SIGNAL TYPE	MATRIX1	ON =		SIGNAL TYPE	
ST IN 1L/1R	STEREO 🔻	MATRIX1/2	MONO x 2 🔻	MATRIX2	ON +	1/2	1WAY x 2 🔻	
ST IN 2L/2R	STEREO 🔻	MATRIX3/4	MONO x 2 🔻	MATRIX3	ON -	3/4	1WAY x 2 🔻	
SD IN L/R	STEREO 💌	MATRIX5/6	MONO x 2 💌	MATRIX4	ON -	5/6	1WAY x 2 🔻	
		MATRIX7/8	STEREO 🔻	MATRIX5	ON =	7/8	1WAY x 2 🔻	
STEREO INPU	CHANNEL SETUP	MATRIX9/10	MONO x 2 🐨	MATRIX6	ON +	9/10	1WAY x 2 =	
1L/1R	SIGNAL TYPE	MATRIX 11/12	MONO x 2 *	MATRIX7	ON -	11/12	IWAY x 2 🔻	
2L/2R	STEREO +	MATRIX13/14	MONO x 2 +	MATRIX8	ON -	13/14	1WAY x 2 *	
3L/3R	STEREO 👻	MATRIX15/16	MONO x 2 *			15/16	1WAY x 2 -	
Advance	ed Settings							

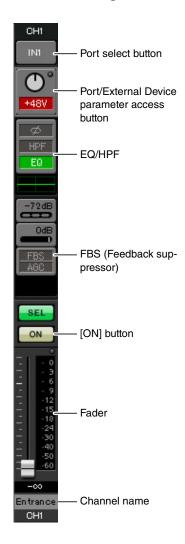
## Settings in the "MAIN" screen

In the "MAIN" screen you can make overall settings for each channel. For details on each parameter, refer to "MTX Editor User's Manual." 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 Editor User's Manual."

#### [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.

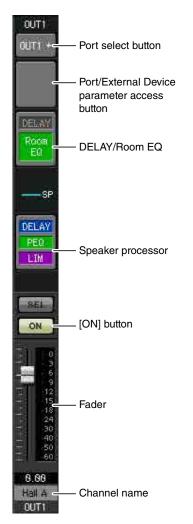
#### **Channel name**

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

## • 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 Editor User's Manual."

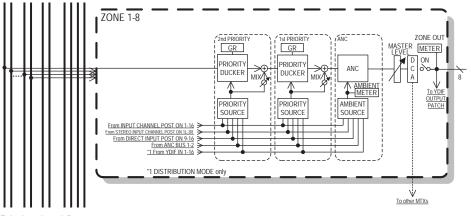


In this example, make the settings shown in the above illustration. Clicking a cross point (a square area) or dragging cross points will switch it on/off. If you right-click on a cross point, a context menu appears. You can select [All OFF] to turn off all cross points. The cross point shows the send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

## 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].

_ibrary 	[01 MTX3] 0 Hall A	▼ Paramet	er Assign Dimmer	& Lock	
No. Name 01 [No Data]	DCP1V4S-US/EU	Switch	FUNCTION	DEVICE	PARAMETER
02 [No Data]		1	No Assign	DEVICE	1. ANY MILLING
03 [No Data] 04 [No Data]	O	2	No Assign		
05 [No Data] 06 [No Data] 07 [No Data]		3	No Assign	1	
08 [No Data] 09 [No Data]		4	No Assign		
10 [No Data] 11 [No Data]		Knob			
12 [No Data]			FUNCTION	DEVICE	PARAMETER
13 [No Data] 14 [No Data] 15 [No Data]		1	No Assign		
16 [No Data]					
17 [No Data] 18 [No Data] 19 [No Data]					
19 [No Data] +					
Copy Paste Clear					

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 [Store] button. In the "Store Library" dialog box, change the name to "Basic" and then click the [OK] button.

brary	[01 MTX3] 0 Hall A	<u>.</u>				
<u>Store</u> <u>R</u> ecall	Paper la contra	Paramete	r Assign	Dimmer	& Lock	
Io. Name	DCP1V4S-US/EU	Switch	14		8	
1 Basic 🧭			FUI	ICTION	DEVICE	PARAMETER
2 [No Data] 3 [No Data]		1	Preset Re	call		02 [No Data]
3 [No Data] 4 [No Data]			1	- La care	<u>}.</u>	
5 [No Data]	( Street of Stre	2	No Assig	)		
06 [No Data]		3	SD Song	Select & Play	01 MTX3	
07 [No Data]						
9 [No Data]		4	SD Song	Pause	01 MTX3	
10 [No Data]					.h.:	
11 [No Data]		Knob				
2 [No Data] 3 [No Data]			FUI	ICTION	DEVICE	PARAMETER
4 [No Data]		1	ZONE Ou	Level	01 MTX3	ZONE 1:-∞dB - 0.0dB
5 [No Data]						
6 [No Data]						
7 [No Data]						
7 [No Data] 8 [No Data]		1				
7 [No Data] 8 [No Data]						
7 [No Data] 8 [No Data]						
7 [No Data] 3 [No Data]						

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.

Sto	the second s		DCP1V4S-US/EU	Paramete	r Assign Dimmer	& Lock	
0.	Name Basic			Switch	FUNCTION	DEVICE	PARAMETER
	Basic			1	Preset Recall		02 [No Data]
	[No Data] [No Data] [No Data]		<b>O</b>	2	No Assign		2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 3 2 2 2 2
	[No Data] [No Data]			3	SD Song Select & Play	01 MTX3	
	[No Data] [No Data]			4	SD Song Pause	01 MTX3	
0	[No Data] [No Data]			Knob			
2	[No Data]				FUNCTION	DEVICE	PARAMETER
4	[No Data] [No Data]			1	ZONE Out Level	01 MTX3	ZONE 1:-∞dB - 0.0dB
6 7 8	[No Data] [No Data] [No Data] [No Data] [No Data]	(V)					
	y Paste Cl	ear					

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 [Store] button to overwrite-save the library item.

Library <u>Store R</u> ecall	DCP1V4S-US/EU	▼ Paramete	r Assign Dimmer	& Lock	
No. Name		Switch	FUNCTION	DEVICE	PARAMETER
02 Party 03 [No Data]		1	Preset Recall	DETIGE	01 [No Data]
03 [No Data] 04 [No Data] 05 [No Data]	O	2	No Assign		
05 [No Data] 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	2		
12 [No Data]			FUNCTION	DEVICE	PARAMETER
13 [No Data] 14 [No Data]		1	ZONE Out Level	01 MTX3	ZONE 1:-∞dB - 0.0dB
15 [No Data] 16 [No Data]					
17 [No Data] 18 [No Data]					
222 (C.A.O.278) (C.C.					
Copy Paste Clear					

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

ID of the DCP	1 (Ha	all B)	2 (Entrance)		3 (Kitchen)	
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 Assign		No Assign	
Switch 4		(Hall A)				
Knob 1	ZONE OUT Level (ZONE2)		Input Ch L	evel (CH1)	Input Ch L	evel (CH2)

#### Example settings for other DCP units

#### ■ 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 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.

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

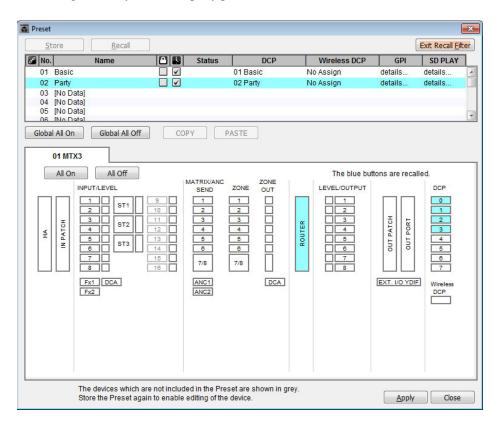
OCP Library –				Wirele	ess DCP sign	Library	-	
01 Basic 02 Party 03 04				01 02 03 04				AL III
05 06 07 08			Ŧ	05 06 07 08				
GPI OUT				101				
MTX	1	2	3	4	5	6	7	8
04 1070 (0	<ul> <li>Research</li> </ul>	11222000224	100000000000000000000000000000000000000					
01 MTX3	Ignore	Ignore	Ignore	Ignore				
		Ignore	Ignore	Ignore				
			Ignore	Ignore	PLAY	MODE		
SD Song Select		SC		Ignore	PLAY	MODE		
SD Song Select MTX	& Play _	SC		Ignore	PLAY	MODE		

Store	Recall					Recall <u>Filte</u>
No.	Name	Status	DCP	Wireless DCP	GPI	SD PLAY
01 Basic			01 Basic	No Assign	details	details
02 [No Data	1					
03 [No Data	1					
04 [No Data						
05 [No Data						
06 [No Data						
07 [No Data	1					
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						
21 [No Data						
22 [No Data						
23 [No Data						
24 [No Data						
25 [No Data						
26 [No Data						
27 [No Data						
28 [No Data 20 [No Data						

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.



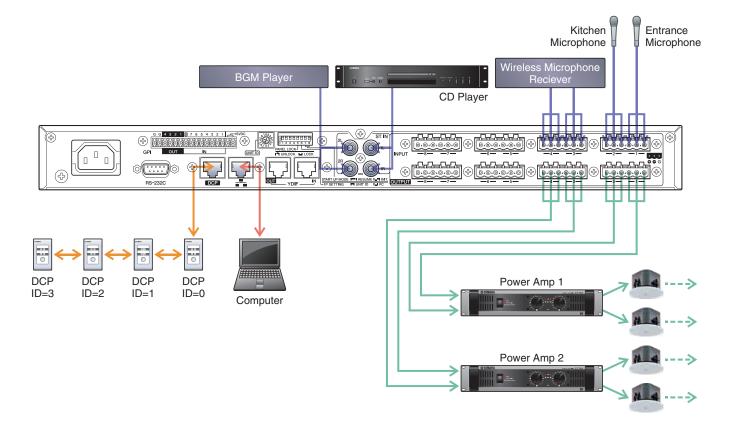
If you store these settings as a different preset, you'll be able to easily switch to settings suitable for a party. If you use Recall Filter to specify that only ROUTER and DCP settings are recalled, other settings such as gain will remain at the Basic settings even if you recall a party preset.



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".

neral	
	ed automatically if your network supports need to ask your network administrator
Obtain an IP address auto	omatically
Use the following IP addre	195;
IP address:	192 . 168 . 0 . 253
Subnet mask:	255.255.255.0
Default gateway:	16 AS 32
Obtain DNS server addres	ss automatically
() Use the following DNS ser	ver addresses:
Preferred DNS server:	1 12 12 13
Alternate DNS server:	6( .3 .8
Validate settings upon ex	at Advanced

## 7. Click [OK].

#### NOTE

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

## **Taking MTX Editor online**

In the upper right of MTX 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 Editor will be sent to the MTX.

		SYSTEM STATU	
ronization	3	2	INE
Device	© From Device	C 610 Assium	ST der
		No Assign LO	ST de
		No Assign	det
	279000000000000000000000000000000000000	System Message	
	OK Cancel	Select the systems to go onlin	ie and then click [Online] button.

## Verifying that the settings were applied

The main items to verify are listed below. For details on each parameter setting, refer to "MTX Editor User's Manual."

#### **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 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 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 system you'll be constructing, and click [Next>].

🗿 Device Configu	uration Wizard					-X.
System #1				310		
and configures (	device settings.	s you through the initial edit an existing configur				
SYSTEM NAME	System #1					
New						
O EBI Configu Chairghic the		ie yf destres andwr on	raction will induite	the settings :	il World Church (	and Danie.

2. Specify the number of units that will be connected in your MTX 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.

				- 1 (ā@).		- )
device must exist to ma			Configu	ration, re-store the	e existing Preset	data
Connected	ANAL	OG Connected		DAN	TE Connected	
Number	DEVICE TYPE	Number		DEVICE TYPE	Number	
0 •	XMV4140	0	•	XMV4140-D	0	•
1	XMV4280	0	•	XMV4280-D	0	•
0.	XMV8140	0	•	XMV8140-D	0	•
0 •	XMV8280	0	•	XMV8280-D	0	•
1	XMV4140-D	0	•			
0 -	XMV4280-D	0				
0 -	XMV8140-D	0				
	device must exist to ma Connected Number 0 • • • 1 • • 0 • • • 1 • • 0 • • •	device must exist to make up a system. A Connected Number O O O	device must exist to make up a system. After changing the  Connected Number  O	Connected         ANALOG Connected           Number         DEVICE TYPE         Number           0         *         XHV4140         0         *           1         *         XHV4140         0         *         *           1         *         XHV4140         0         *         *           0         *         XHV8140         0         *         *           0         *         XHV8280         0         *         *           1         *         XHV4140-D         0         *         *           0         *         XHV4280-D         0         *         *           0         *         XHV4140-D         0         *         *	device must exist to make up a system. After changing the Configuration, re-store the Connected ANALOG Connected DAN Number DEVICE TYPE Number DEVICE TYPE 2x4v4140 0    2x4v4140-D 2x4v4140 0    2x4v4140-D	device must exist to make up a system. After changing the Configuration, re-store the existing Preset       Connected     ANALOG Connected     DANTE Connected       Number     DEVICE TYPE     Number     DEVICE TYPE     Number       0     *     XMV4140     0     *       1     *     XMV4140     0     *       0     *     XMV4140     0     *       1     *     XMV4280     0     *       0     *     XMV4140     0     *       XMV4280     0     *     *       XMV8140     0     *     *       XMV8140     0     *     *       XMV8140     0     *     *       XMV4280     0     *     *       XMV8140     0     *     *       XMV4140-D     0     *     *

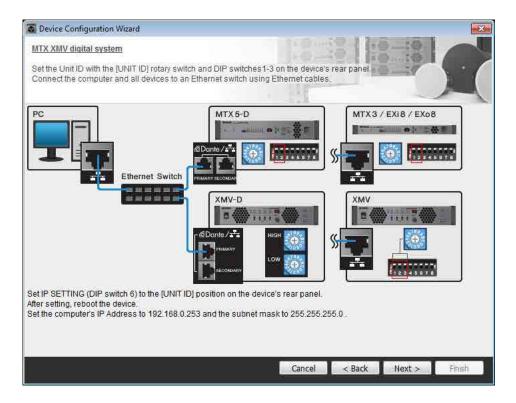
#### **3.** Specify the UNIT ID of each device, and click [Next>].

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.

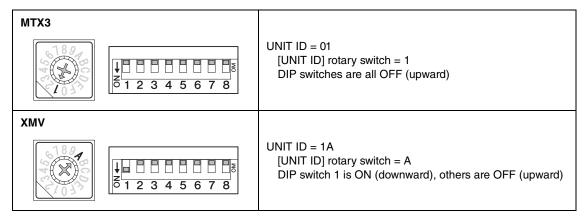
🗿 Device Config	uration Wizard							-X.
MTX XMV digita	al system					311:3-		-5
	Ds in the list below e present yet, matc				aram lat		-16 Y	* (
	Connected	n uie p		OG Connected	grannat		E Connected	1
DEVICE TYPE	UNITID		DEVICE TYPE	UNITID		DEVICE TYPE	UNITID	_
MTX3	01 -	3			*		S-1074 - CS-	*
XMV4280	[]]A	]						
	NSTRIBUTION	-						
				Can	cel	< Back	ext > F	nish

#### 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."

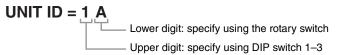


Make the following settings.



#### 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.

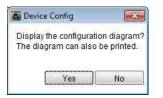
Device Configuration Wizard		
MTX XMV digital system		
The order of the YDIF connected devices (only for devices within the same series	can be changed by dragging and droppin ).	
YDIF Connected	ANALOG Connected	DANTE Connected
DEVICE	DEVICE	DEVICE
01 MEX3	1	*
1A XMV4280		
Refresh	Cancel	< Back Next > 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	Config	juration Wizard						
		<u>al system</u> ne the Digital Control F	ane	Is connected to each MT)		CO.C.C.		
DEVICE	E 0	1 MTX3		Name				
0	10	DCP1V4S-US/EU	۰Ì	Hall A	1.1			
1	Ho	DCP1V4S-US/EU	•)	Hall B	1			
2	B	DCP1V4S-US/EU	•	Entrance	)			
3	Ю	DCP1V4S-US/EU	•)	Kitchen	1			
4		None	•		3/			
5		None	•)		3			
6	Ľ.	None	•		3/			
7		None	•		1(			
					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].

Ethernet       DCP       Set DIP switch 4 (termination) to the ON position for the end of line DCP of each MTX.         DEVICE       Digital Control Panel       Digital Control Panel       ANALOG       DANTE         VDIF       DCP       Digital Control Panel       Digital Control Panel	
YDIF     DCP     Party     Party     Party     Party     Party     Party       ID=0     ID=1     ID=2     ID=3     ID=4     ID=5     ID=6     ID=7	
Print Cio	

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).

			]
2	3	4	J

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 Editor

Here's how to make detailed MTX system settings in MTX 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

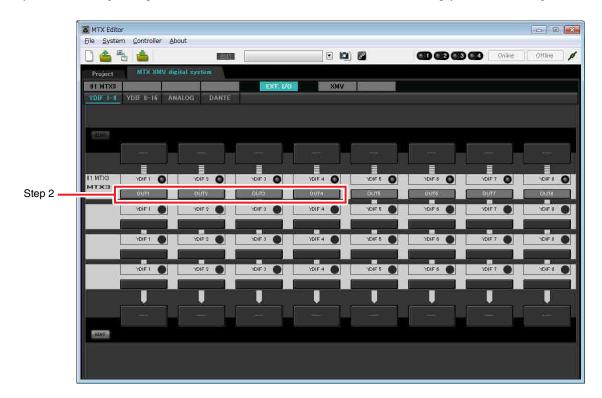
Here you'll make settings for inputting digital audio into the XMV.

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 XN	IV digital sys	tem
01 MTX3			
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. 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: 01 V	
Thru	_
INPUT CHANNEL(POST ON)	
	]
STEREO INPUT CHANNEL(POST ON)	
1L 1R 2L 2R 3L 3R	
ZONE OUT	
	1
OUTPUT	
1 2 3 4 5 6 7 8	j
Close	

#### **3.** In the lower left, click the [EDIT] button.

Now you can specify the outputs from the MTX to YDIF 1–8.

MTX Editor File System		About						
0 📤 🕾		EDIT			8	<b>ad ad ad</b>	O1 Online	Offline 💋
Project		/ digital system						
01 MTX3	YDIF 9-16	ANALOG DANTE	EXT. 1/0	XMV				
					-	-	-	-
01 MTX3	YDIF1	YDIF 2	YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
вхтм	OUTI		our:	OUT4	OUT5	OUT6	OUT7	OUTE
	YDIF1	YDIF 2	YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
	YDIF1	YDIF 2	YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
2	YDIF1	YDIF 2	YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
		-					-	
EDIT								

[EDIT] button

Output routing select button

#### 4. Click the output routing select button located below YDIF 1.

The "YDIF Out Patch" dialog box will appear.

	100	
1A XMV4280	A B C D	*
	Power mode, outputs of B/D/F/H channels will	

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

The YDIF 1 output routing select button shows that the YDIF 1 output has been assigned to CH A of the UNIT ID=1A XMV.



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.



7. In the lower left, click [EDIT] button to lock the settings.



[EDIT] 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.

	CTR ID	MATTER DUC C	CTT ID	CARCADE	MODE			
INPUT PORT S	SIGNAL TYPE	MATRIX BUS S	SIGNAL TYPE	CASCADE		-14	OUTPUT	CHANNEL SETU SIGNAL TYPE
				MATRIX1	ON	19		Construction of the second
ST IN 1L/1R	STEREO 🔻	MATRIX1/2	MONO x 2 🔻	MATRIX2	ON	+	1/2	1WAY x 2
ST IN 2L/2R	STEREO 🔻	MATRIX3/4	MONO x 2 🔻	MATRIX3	ON	-	3/4	1WAY x 2
SD IN L/R	STEREO 🔻	MATRIX5/6	MONO x 2 💌	MATRIX4	ON	-	5/6	1WAY x 2
		MATRIX7/8	STEREO 🔻	MATRIX5	ON	-	7/8	1WAY x 2
STEREO INPUT	CHANNEL SETUP	MATRIX9/10	MONO x 2 Y	MATRIX6	ON	+	9/10	1WAY x 2
1L/1R	SIGNAL TYPE	MATRIX 11/12	MONO x 2 *	MATRIX7	ON	-	11/12	IWAY x 2
2L/2R	STEREO V	MATRIX13/14	MONO x 2 +	MATRIXS	ON		13/14	1WAY x 2
3L/3R	STEREO V	MATRIX15/16	MONO x 2 *				15/16	1WAY×2
Advanc	ed Settings	1						

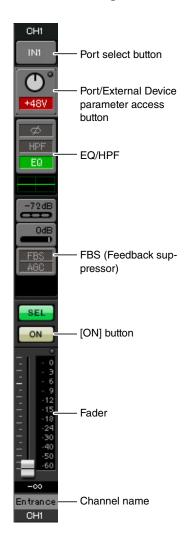
# Settings in the "MAIN" screen

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 Editor User's Manual." 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 Editor User's Manual."

#### [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.

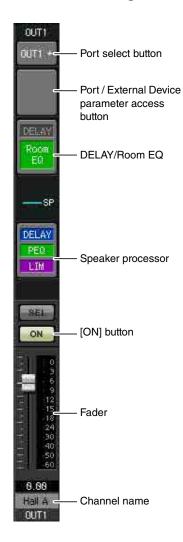
#### Channel name

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

# • 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 Editor User's Manual."

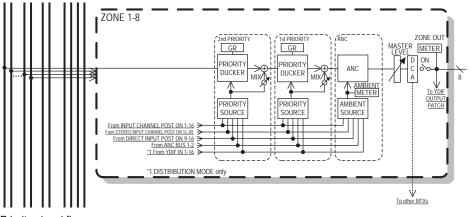


In this example, make the settings shown in the above illustration. Clicking a cross point (a square area) or dragging cross points will switch it on/off. If you right-click on a cross point, a context menu appears. You can select [All OFF] to turn off all cross points. The cross point shows the send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

# 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].

ibrary Store Recal	[01 MTX3] 0 Hall A	Paramete	er Assign Dimmer	8 Lock	
	DCP1V4S-US/EU	Switch	er Assign Dinnner	& LOCK	
No. Name 01 [No Data] 🔺		Switch	FUNCTION	DEVICE	PARAMETER
02 [No Data]		1	No Assign		
03 [No Data] 04 [No Data]	Ō				
05 [No Data]	( Section of the sect	2	No Assign		
06 [No Data]		3	No Assign		
07 [No Data] 08 [No Data]					
09 [No Data]		4	No Assign		
10 [No Data]					
11 [No Data]		Knob			
12 [No Data] 13 [No Data]			FUNCTION	DEVICE	PARAMETER
14 [No Data]		1	No Assign		
15 [No Data]					
16 [No Data] 17 [No Data]					
18 [No Data]					
19 [No Data]					
<u></u>	4				
Copy Paste Clear		- <u></u>			

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 [Store] button. In the "Store Library" dialog box, change the name to "Basic" and then click the [OK] button.

	[01 MTX3] 0 Hall A	<u> </u>				
<u>S</u> tore <u>R</u> ecall	DCP1V4S-US/EU	Paramete	er Assign	Dimmer	& Lock	
lo. Name		Switch	1 600	0700	1 access	
1 Basic 2 [No Data]		1	-	ICTION	DEVICE	PARAMETER
3 [No Data]		1	Preset Re	call		02 [No Data]
4 [No Data] 5 [No Data]		2	No Assig	1		
06 [No Data]		3	SD Song	Select & Play	01 MTX3	
J/ [No Data]		1.0				
08 [No Data]		4	SD Song	Pause	01 MTX3	
			1242/1242014		a provide a series and the series of the ser	
09 [No Data] 10 [No Data]			4		1	
09 [No Data] 10 [No Data] 11 [No Data]		Knob	-		DEMOS	
09 [No Data] 10 [No Data] 11 [No Data] 12 [No Data]			FUI	ICTION	DEVICE	PARAMETER
09 [No Data] 10 [No Data] 11 [No Data] 12 [No Data] 13 [No Data] 14 [No Data]			-	ICTION	DEVICE 01 MTX3	PARAMETER ZONE 1;->>dB - 0.0dB
19         [No Data]           10         [No Data]           11         [No Data]           12         [No Data]           13         [No Data]           14         [No Data]		Knob	FUI	ICTION	Contraction and the	E 7.45.4 141.5 4.51.1
199         [No Data]           10         [No Data]           11         [No Data]           12         [No Data]           13         [No Data]           14         [No Data]           15         [No Data]           16         [No Data]		Knob	FUI	ICTION	Contraction and the	E 7.45.4 141.5 4.51.1
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]		Knob	FUI	ICTION	Contraction and the	E 7.45.4 141.5 4.51.1
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]		Knob	FUI	ICTION	Contraction and the	E 7.45.4 141.5 4.51.1
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]		Knob	FUI	ICTION	Contraction and the	E 7.45.4 141.5 4.51.1

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.

St	ry ore <u>R</u> ecall	1	[01 MTX3] 0 Hall A	▼ Paramete	r Assign Dimmer	& Lock		
IO.	Name		DCP1V4S-US/EU	Switch				
	Basic				FUNCTION	DEVICE	PARAMETER	
	Basic [No Data]			1	Preset Recall		02 [No Data]	
	[No Data]			2	No Assign	-	A STREET REVIEW STREET	
	[No Data]		( areas	2	INO ASSIGN			
	[No Data]	181		3	SD Song Select & Play	01 MTX3		
	[No Data] [No Data]			14				_
	[No Data]			4	SD Song Pause	01 MTX3		
	[No Data]			-				
	[No Data] [No Data]			Knob	FUNCTION	DELMOR	DADAMETED	_
	[No Data]			7	FUNCTION	DEVICE	PARAMETER	
14	[No Data]			1	ZONE Out Level	01 MTX3	ZONE 1:-∞dB - 0.0dB	
	[No Data]							
16	[No Data] [No Data]							
	[No Data]							
17	[No Data]	-						
17 18		1.000						
17 18								
17 18	iu	lear		- N				

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 [Store] button to overwrite-save the library item.

Libra <u>S</u> t	ore <u>R</u> ecall	DCP1V4S-US/EU	▼ Paramete	r Assign Dimmer	& Lock	
No.	Name	DCP1V4S-US/EU	Switch	FUNCTION	DEVICE	PARAMETER
02	Basic   Party [No Data]		1	Preset Recall	DEVICE	01 [No Data]
04	[No Data] [No Data]	O	2	No Assign		
	[No Data] [No Data]		3	SD Song Select & Play	01 MTX3	
08	[No Data] [No Data]		4	SD Song Pause	01 MTX3	
10	[No Data] [No Data]		Knob		his	-1
12	[No Data]			FUNCTION	DEVICE	PARAMETER
14	[No Data] [No Data] [No Data]		1	ZONE Out Level	01 MTX3	ZONE 1:-∞dB - 0.0dB
16 17 18	[No Data] [No Data] [No Data] [No Data]					
	y Paste Clear					

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

ID of the DCP	1 (Ha	1 (Hall B)		2 (Entrance)		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 Level (ZONE2)		Input Ch L	evel (CH1)	Input Ch L	evel (CH2)

#### Example settings for other DCP units

### ■ 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 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.

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

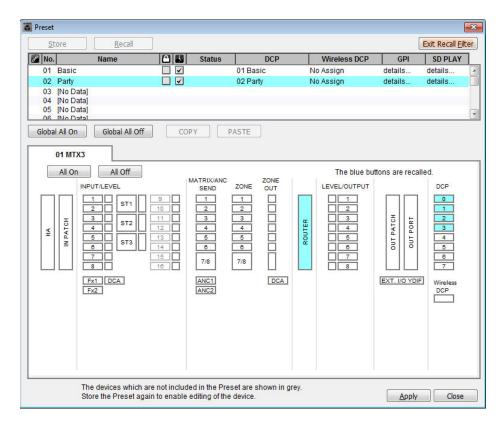
OCP Library –				Wirele	ess DCP sign	Library	-	
01 Basic 02 Party 03 04				01 02 03 04				ALM .
05 06 07 08			.*	05 06 07 08				
GPI OUT				100				
MTX	1	2	3	4	5	6	7	8
01 MTX3	Ignore	Ignore	Ignore	Ignore				
		Ignore	Ignore	Ignore				
			Ignore	Ignore	PLAY	MODE		
SD Song Select		SC		Ignore	PLAY	MODE		
SD Song Select MTX	& Play _	SC		Ignore	PLAY.	MODE		

2.07	e <u>R</u> eca	all					Recall Filter
No.	Name		Status	DCP	Wireless DCP	GPI	SD PLAY
01 B	lasic			01 Basic	No Assign	details	details
02 [1	No Data]						
03 [	No Data]						
	Vo Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	Vo Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	Vo Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	No Data]						
	Vo Data]						
	No Data]						
	No Data]						
	No Data]						

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.



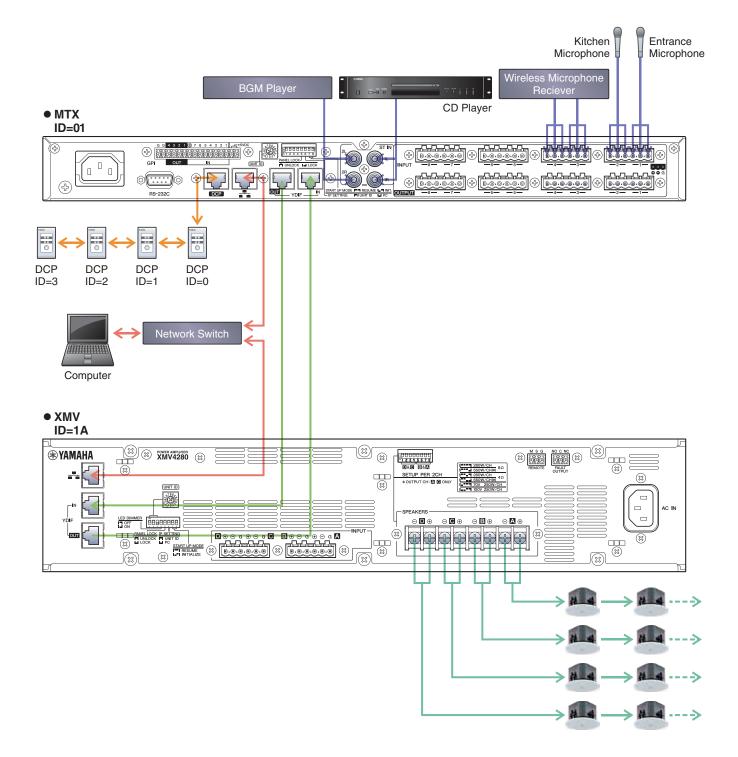
If you store these settings as a different preset, you'll be able to easily switch to settings suitable for a party. If you use Recall Filter to specify that only ROUTER and DCP settings are recalled, other settings such as gain will remain at the Basic settings even if you recall a party preset. For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



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."

General	
	signed automatically if your network supports you need to ask your network administrator tings.
🕞 Obtain an IP address	automatically
Outrian Use the following IP a	address:
IP address:	192 , 168 , 0 , 253
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	87 N 38
Obtain DNS server ac	ddress automatically
Output See the following DN:	S server addresses:
Preferred DNS server:	- 19 - 1
Alternate DNS server:	67 . 29 . 26
📃 Valjidate settings upo	on exit Ad <u>v</u> anced

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

#### NOTE

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

# **Taking MTX Editor online**

In the upper right of MTX 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 Editor will be sent to the MTX.

		SYSTEM	STATUS PROGRESS	details
hronization o Device	© From Device	🗇 🕬 Assign		detbila
		(II) No Assign		detaila
		ET: No Assour		detaila
	,	System Message	go online and then click [Online] b	utton
	OK Cancel	Select the systems to	go onine and men cick (onine) o	Guona

# **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 Editor User's Manual."

### **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 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 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 system you'll be constructing, and click [Next>].

🐻 Device Configu	uration Wizard					-×
System #1						
and configures (	figuration Wizard guides device settings e a new configuration, e					X
SYSTEM NAME	System #1					
New						
io celonitar charancini	utere constituient deserves. De	ie ut devloais androi on	wedion with installe	. The settings (	nt World Cluck (	end Dante.
			Cancel	< Back	Next >	Finish

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

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

At least one MT	TX device must exist to	mal	ke up a system, A	fter changing th	e Configu	ration, re-store th	e existing Pres	et data	5
YDI	F Connected		ANAL	OG Connected		DAN	TE Connected		
EVICE TYPE	Number		DEVICE TYPE	Number		DEVICE TYPE	Number		
MTX5-D	0 -		XMV4140	0	• *	XMV4140-D	0	- 37.)	
MTX3	2 🔹		XMV4280	1	•	XMV4280-D	0	*	
EX18	0 -		XMV8140	0	-	XMV8140-D	0	a <b>⊼</b> ]	
XMV4140	0 *		XMV8280	0	•	XMV8280-D	0	•	
XMV4280	0 -		XMV4140-D	0	•				
XMV8140	0 -		XMV4280-D	0					
XMV8280	0 -		XMV8140-D	0	•				

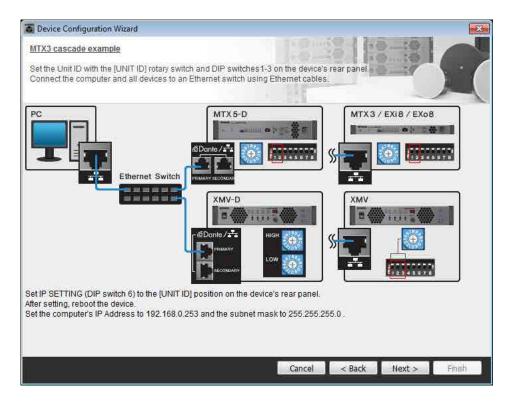
#### **3.** Specify the YDIF MODE to CASCADE, and then click [Next>].

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.

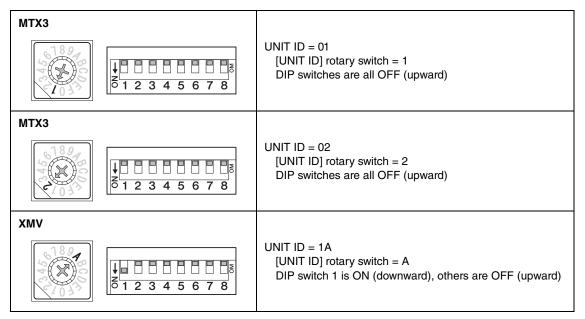
Device Config	guration Wizar	d							
	s. IDs in the list			iysical devices i					
	e present yet, F Connected	match the	e phy		configuration dia	agram lai		TE Connected	
DEVICE TYPE	UNIT ID		C	DEVICE TYPE	UNITID		DEVICE TYPE	UNITID	
MTX3	01	•]	ŝ j	XMV4280	1A	•			
MTX3	02	•]							
	Locale Contraction								
			÷						
	CASCADE	•							

#### 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."

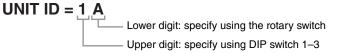


#### Make the following settings.



#### 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>].

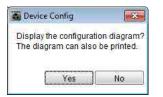
Device Configuration Wizard				
MTX3 cascade example				
The order of the YDIF connected devices (only for devices within the same series		nd dropping	I Committee	
YDIF Connected	ANALOG Connecte	d	DANTE Connec	cted
DEVICE	DEVICE	DEVIC	E	
Ol MTX3	1A XMV4280	*		
02 MTX3				
-				.*
Refresh		Cancel < Bac	k Next >	Finish

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

Since one DCP1V4S will be connected to the UNIT ID=01 MTX3, choose [01 MTX3] for Device, and register the one DCP unit.

Device	Configuration Wizard						
	scade example nd name the Digital Control	Panels connec	ted to each MT	x.	0000		Ĩ
DEVICE	01 MTX3		Name				
0	田田田 田田田田 田田田田	▼ Chairm					
	6 DCF 1943-03/E0	Chairm	an				
1	None	•					
2	None	•					
3	None						
4	None	•					
5	None	•					
6	None	•]					
7	None	•					
				Cancel	< Back	Next >	Finish
					ne	0	a a

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 Dia	agram									×
Ethernet	Connect the com switch using Ethe	puter and de ernet cables.	vices to an E	DCF Thernet	Set DIP position	switch 4 (tern for the end of	ination) to the line DCP of ea	ON ch MTX.		
DEVICE	YDIF DCP	Digital Cont		16 3		23 4 10=5	ID=6	ID=7	ANALOG	DANTE
01 MTX3		Ö							1A XMV4280	
										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=0), set DIP switch 4 ON (upward).

[ ON				
			ЦI	
1	2	3	4	

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 Editor

Here's how to make detailed MTX system settings in MTX 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.

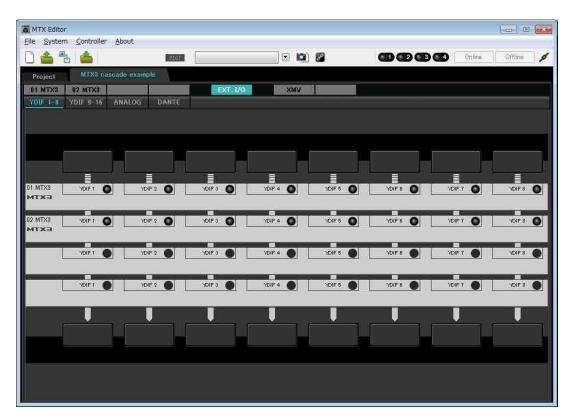
Move to the System screen by clicking the tab of the system name you specified in step 1 of "Using the Device Configuration Wizard to create your device setup."

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

Project	MTX3 ca	ascade examp	le
01 MTX3	02 MTX3		
MAIN	INPUT	MATRIX	ZONE

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

The output setting screen will appear.



# 2. Click the [ANALOG] button.

The MTX analog output setting screen will appear.

	MTX Editor				- 2 .
	Eile System Controller About	//		I REPORTED AND A LOCAL MARKET	
		EDM	2 🛍 🖉		Online Offline
	Project MTX3 cascade exam	ple			
	01 MTX3 02 MTX3	EXT. 1/0	XMV		
	YDIF 1-8 YDIF 9-16 ANALOG	DANTE			1
	-				
	01 MTX3 02 MTX3				
	92 1917.3	MTX			
Step 3					
	v				

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

The "Line Out Patch" dialog box will appear.

Line Out Patch	
Out: ( 1 - )	
1A XMV4280	C D ·
	*
If the XMVs are set to Double Power mod	e, outputs of B/D/F/H channels 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.

MTX Editor	
Eile System Controller About	
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Project MTX3 cascade example	
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01 MTX3	
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1A XMV4280	

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.

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INPUT PORT S		MATRIX BUS S		CASCADE	MODE	OUTPUT	CHANNEL SETU
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ST IN 2L/2R	STEREO 🔻	MATRIX3/4	MONO x 2 💌	MATRIX3	ON -	3/4	1WAY x 2
SD IN L/R	STEREO 🔻	MATRIX5/6	MONO x 2 💌	MATRIX4	ON -	5/6	1WAY x 2
		MATRIX7/8	STEREO 💌	MATRIX5		7/8	1WAY x 2
STEREO INPUT	SIGNAL TYPE	MATRIX9/10	MONO x 2 🐨	MATRIX6		9/10	1WAY x 2
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2L/2R	STEREO V	MATRIX13/14	MONO x 2 · +	MATRIX8	ON -	13/14	1W/AY x 2
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# 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 Editor User's Manual." 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

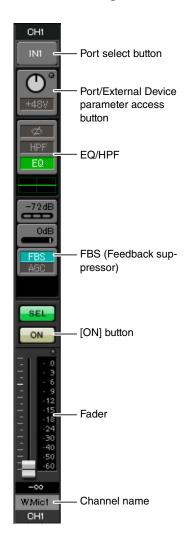




# • ID=02

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### • 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 Editor User's Manual."

#### [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.

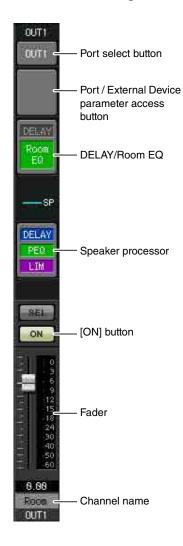
	CH1	W.Mic1
	CH2	W.Mic2
	CH3	W.Mic3
	CH4	W.Mic4
UNIT ID	CH5	W.Mic9
= 01	CH6	W.Mic10
- 01	CH7	W.Mic11
	CH8	Chairman
	STIN1	CD Player
	STIN2	Computer
	STIN3	SD Player

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

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	OUT1	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 Editor User's Manual."

### • ID=01



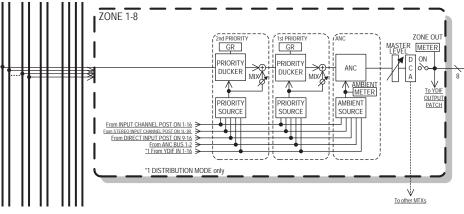
#### • ID=02



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 Editor User's Manual."

# Settings in the "ROUTER" screen

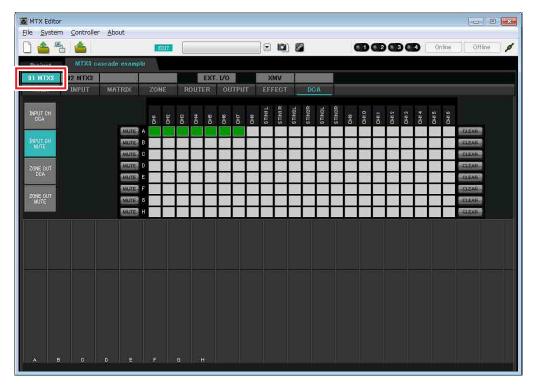
In the "ROUTER" screen you can assign zones to outputs. In this example, since ZONE1 will be output to OUTPUT1 through 4, set the MTX units of ID=01 and 02 as shown in the illustration.



# 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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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.

# Digital Control Panel (DCP) settings

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

To make these settings, choose the [Controller] menu item [Digital Control Panel].

When you click one of the numbered buttons, a "Settings" dialog box will appear; assign parameters to the controls. When you've made the assignments, click to select "01 [No data]" and then click the [Store] button. In the "Store Library" dialog box, change the name to "Basic" and then click the [OK] button.

<u>S</u> tore	<u>R</u> ecall		Paramete	r Assign Dimmer	& Lock	
lo. 1 Bas	Name	DCP1V4S-US/EU	Switch	FUNCTION	DEVICE	PARAMETER
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I [No	Data] Data] Data]		2	Input Ch ON	01 MTX3	CH 8
[No	Data]		3	No Assign		
B [No	Data] Data]		4	No Assign		
0 [No	Data] Data]		Knob			
[No	Data]			FUNCTION	DEVICE	PARAMETER
4 [No	Data] Data]		1	Input Ch Level	01 MTX3	CH 8:-∞dB - 0.0dB
	Data] Data]					
7 [No	Dataj					

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.

Switch 1 turns mute on/off for the microphone inputs other than the chairman's seat. Switch 2 turns the chairman's microphone on/off. The knob adjusts the input level of the chairman's microphone.

## 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 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.

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

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01 Basic 02			*	01				
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01 Basic No Assign details details

#### 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

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Which Whice Whice W	/Mic4 WMic9 WMic10	WMic11 Chairman OD Player	Oomputer Room		
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#### • ID=02

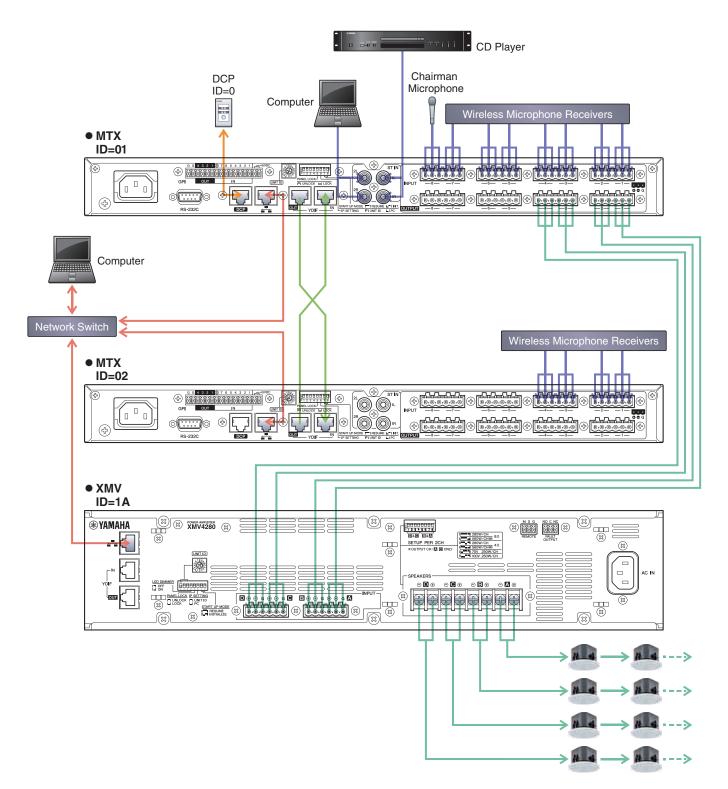
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If you store these settings as a different preset, you'll be able to easily switch to settings with a limited number of microphones. In the example above, wireless microphones 9 through 11 are not used, so FBS is used on all of the wireless microphones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

## 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."

eneral	
	d automatically if your network supports need to ask your network administrator
🕞 Obtain an IP address auto	omatically
Use the following IP addre	ISS:
IP address:	192.168.0.253
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	10 N 30
Obtain DNS server addres	s automatically
O Use the following DNS ser	N-10-100 A21010-018
Preferred DNS server:	
Alternate DNS server:	N 33 36
🔲 Validate settings upon ex	it Advanced

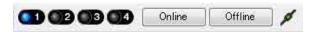
## **7.** Click [OK].

#### NOTE

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

## **Taking MTX Editor online**

In the upper right of MTX 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 Editor will be sent to the MTX.

chronization		MTX3 casca	ade OFFLINE	details.
o Device	From Device	E No Assign	LOST	detaila
		🗇 140 Assissi		detaila
		E No Assign		detaila
	<u></u>	System Message		
	OK Cancel	Select the system	ns to go online and then click [Online] t	utton

## **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 Editor User's Manual."

### **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 DCP settings.

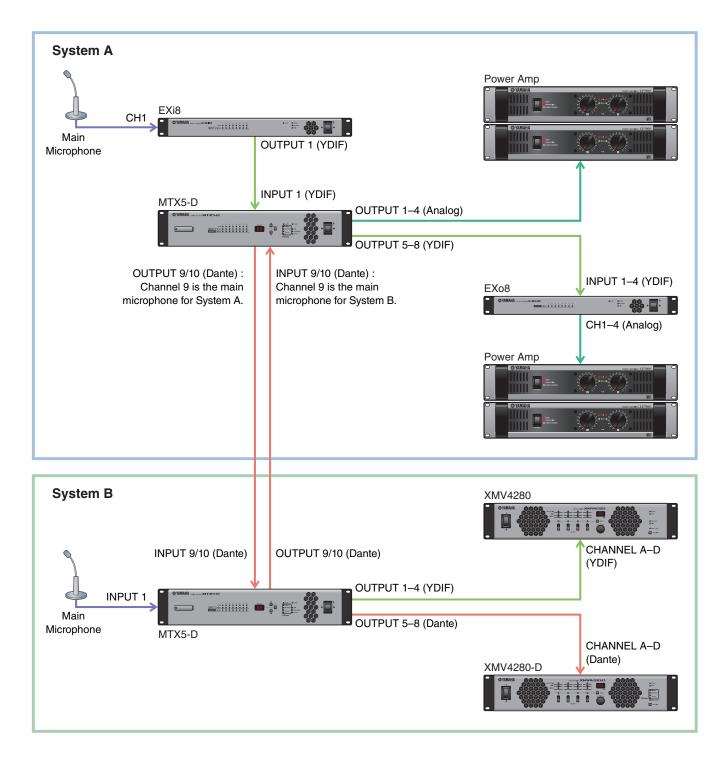
Verify that the DCP operates as you expect.

When you have finished making all settings, save the project and switch MTX 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 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 system that we are calling System A, and then click [NEXT>].

Device Config	uration Wizard				
System #2			1223	102-14	
and configures (	figuration Wizard guides y device settings, e a new configuration, edi				
SYSTEM NAME	System A				
New					
io esi configu					
Cherdbow	e normbelt of desides. Type	of devices and/or conne	chon will indiate the r	ende of work clock	and Danke

2. Specify the number of units that will be connected in your MTX 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.

		ine up a system.r	viter changing the	e Contigu	ration, re-store the	e existing Prese	et data
Connected		ANAL	OG Connected	<u>.</u>	DAN	TE Connected	
Number		DEVICE TYPE	Number		DEVICE TYPE	Number	
0	•] 🛛	XMV4140	0	•	XMV4140-D	0	•
[1	-	XMV4280	0	•	XMV4280-D	0	
0	•	XMV8140	0	-	XMV8140-D	0	•
0	*]	XMV8280	0	•	XMV8280-D	0	
0	•	XMV4140-D		-			
0	•	XMV4280-D	39				
[1	-	XMV8140-D	0				
	Number 0 1 0 0 0 0	Number 0 • A 1 • A 0	Number         DEVICE TYPE           0         •         XMV4140           1         •         XMV4280           0         •         XMV8140           0         •         XMV8280           0         •         XMV8280           0         •         XMV8280           0         •         XMV8280           0         •         XMV4140-D           0         •         XMV4140-D	Number         DEVICE TYPE         Number           0         *         XMV4140         0           1         *         XMV4280         0           0         *         XMV4280         0           0         *         XMV8280         0           1         *         XMV8140-D         0	Number         DEVICE TYPE         Number           0         *         XMV4140         0         *           1         *         XMV4280         0         *           0         *         XMV4280         0         *           0         *         XMV8140         0         *           0         *         XMV8280         0         *           0         *         XMV8280         0         *           0         *         XMV4280         0         *           0         *         XMV4140-D         0         *           1         *         XMV4140-D         0         *	Number         DEVICE TYPE         Number         DEVICE TYPE           0         •         XMV4140         0         •           1         •         XMV4140         0         •         XMV4140-D           1         •         XMV4280         0         •         XMV4280-D           0         •         XMV8140         0         •         XMV4280-D           0         •         XMV8280         0         •         XMV8140-D           0         •         XMV8280         0         •         XMV8280-D           0         •         XMV4140-D         0         •         XMV8280-D           1         •         XMV4280-D         0         •         XMV8280-D	Number         DEVICE TYPE         Number         DEVICE TYPE         Number           0         ×         XMV4140         0         ×         XMV4140-D         0           1         ×         XMV4280         0         ×         XMV4140-D         0           0         ×         XMV8140         0         ×         XMV4140-D         0           0         ×         XMV8140         0         ×         XMV8140-D         0           0         ×         XMV8280         0         ×         XMV8140-D         0           0         ×         XMV4140-D         0         ×         XMV8280-D         0           0         ×         XMV4140-D         0         ×         XMV8280-D         0           1         ×         XMV4140-D         0         ×         XMV8280-D         0           1         ×         XMV4140-D         0         ×         ×         XMV8280-D         0

## **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 Config	uration Wizard							<b>.</b>
System A						8118.	18	C
	i. Ds in the list belov e present yet, mate				gram lat	er.		<u> </u>
YDI	Connected		ANAL	OG Connected		DAN	TE Connected	
DEVICE TYPE	UNIT ID		DEVICE TYPE	UNITID		DEVICE TYPE	UNITID	
EX18	02				*			9
MTX5-D	01	-						
EXo8	03	-						
		π			.77			
	NSTRIBUTION	7						
				Can	cel	< Back	lext > Fi	nish

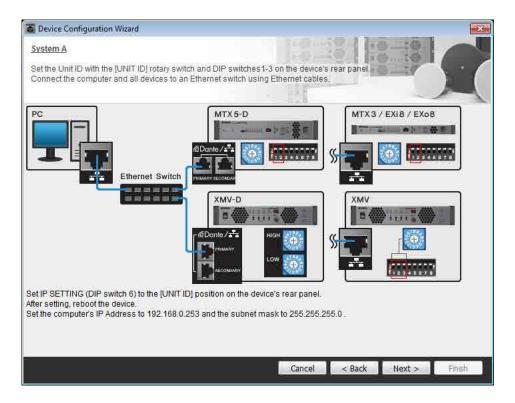
## 4. Select the Mini-YGDAI card, and click [NEXT>].

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

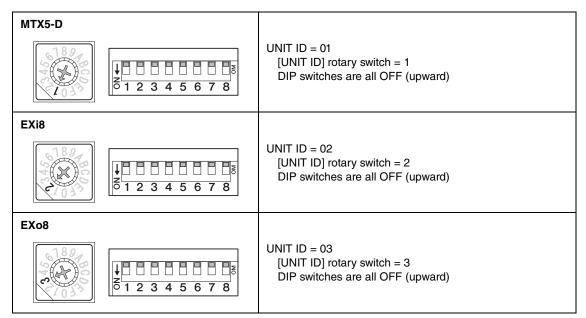
🐻 Device Config	uration Wizard					
System A Select the Mini-	YGDAI card.					07
		YDIF Con			-	
DEVICE	CARD TYPE	INFOMATION	neuteu			_
01 MTX5-D	No Assign	-				
			Cancel	< Back	Next >	Finish

## **5.** 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.



**6.** When you have finished setting the [UNIT ID] rotary switch and DIP switch of the devices, click [Next>].

52

- Device Configuration Wizard System A The order of the YDIF connected devices can be changed by dragging and dropping (only for devices within the same series). YDIF Connected ANALOG Connected DEVICE DEVICE DEVICE 02 EX18 01 MTX5-D 03 EX08
- 7. Verify that the devices are shown in the screen, and click [Next>].

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

Cancel

< Back

Next >

Finish

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

Refresh

1	nfiguration Wizard							
<u>System A</u> Assign and	name the Digital Control F	anels co	nnected to e	ach MTX.				
							-	A
DEVICE	01 MTX5-D 🔻							
1D	MODEL		Nar	ne				
0	None	•			6			
1	None							
2	None	•						
3	None							
4	None	•						
5	None							
6	None	•						
7	None				τ.			
					Cancel	< Back	Next >	Finish
					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 I	Diagram						×
Ethernet	Connect the com switch using Ethe	puter and devices to an ernet cables.	Ethernet DCP Set	DIP switch 4 (termina sition for the end of line	tion) to the ON DCP of each MTX.		
DEVICE	YDIF DCP	Digital Control Panel	10=2 ID=3	04 1 2 3 4 1D=4 1D=5	01 1233 1233 10=6 10=7	ANALOG	DANTE
01 MTX5-D							
03 EXo8							
							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.



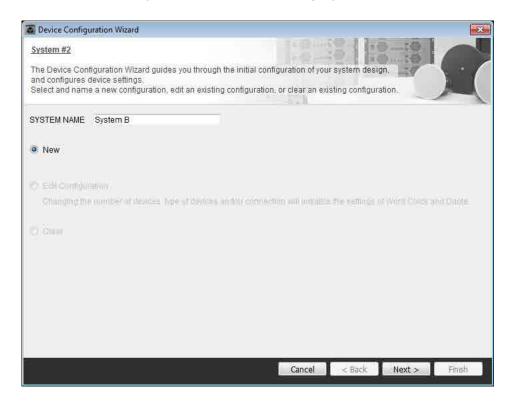
### 10. In order to make basic settings for System B, click the system select tab [2 No Assign].

Step 11			S	system select tab
MTX Editor Eile System Controller Al ut				
Project		0002	O3 O4 Online	Offline
Devrice Coording	Digital Control Panel	ANALOG	DANTE	1 System A 2 No Assign 3 No Assign 4 No Assign
		j i	*	
System Device Alert SYSTEM NAME YDIF MODE	DIMMER.			

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

The Device Configuration Wizard for System B will appear.

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



## **13.** Specify the number of units that will be connected in your MTX 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.

	TX device must exist t			, Analog, and/or I Iter changing the		ration, re-store the	e existing Preset	data
YD	IF Connected		ANAL	OG Connected		DAN	TE Connected	
EVICE TYPE	Number		DEVICE TYPE	Number		DEVICE TYPE	Number	
TX5-D	1	1	XMV4140	0	•	XMV4140-D	0	•
etx3	0 👻		XMV4280	0	•	XMV4280-D	1	•
SX18			XMV8140	0		XMV8140-D	0	<u>.</u>
OMV4140	0 *	m	XMV8280	0	•	XMV8280-D	0	~
MV4280	1 -		XMV4140-D	0				
QMV8140	0 *		XMV4280-D	0	•			
04V8280	0	-	XMV8140-D	0				

## **14.** 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 Config	guration Wizard					0 1 1	* 474	
System B						50 B-80		
Set the Unit IDs	3							8.7
			physical devices			1.1		
If no devices ar	e present yet, r	natch the p	hysical IDs to the	configuration dia	gram lat	er.		-
YD)	FConnected		ANAL	OG Connected	_	DAN	E Connected	_
DEVICE TYPE	UNIT ID		DEVICE TYPE	UNITID		DEVICE TYPE	UNITID	
MTX5-D	1			5640me	6	XMV4280-D		-
	04	•				2	31	· •
XMV4280	2							
- O O	30	•						
		*			1.0			
YDIF MODE	DISTRIBUTION	-						
				Can	cel	< Back N	ext > Fin	lish

## **15.** 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>].

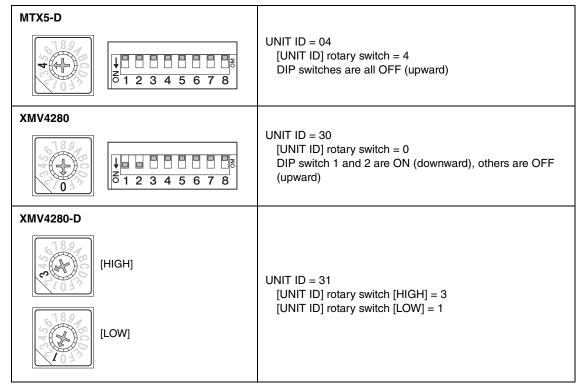
Device Config	uration Wizard		Tellines	24 6		
Select the Mini-	YGDAI card.				Anna Anna Anna Anna Anna Anna Anna Anna	
		YDIF Conn	ected			
DEVICE	CARD TYPE	INFOMATION				
04 MTX5-D	No Assign	-				
			Cancel	< Back	Next >	Finish

#### **16.** 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."

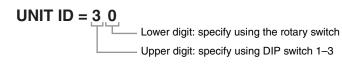
E Device Configuration Wizard	
System B	
Set the Unit ID with the [UNIT ID] rotary switch and DIP switches1-3 on the device Connect the computer and all devices to an Ethernet switch using Ethernet cable	
PC	MTX3/EXi8/EXo8
Set IP SETTING (DIP switch 6) to the [UNIT ID] position on the device's rear panel. After setting, reboot the device. Set the computer's IP Address to 192.168.0.253 and the subnet mask to 255.255.2	
Cancel	< Back Next > Finish

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.



**17.** When you have finished setting the [UNIT ID] rotary switch and DIP switch of the devices, click [Next>].

18.	Verify that the	devices are	e shown ir	the screen,	and click	[Next>].
-----	-----------------	-------------	------------	-------------	-----------	----------

Configuration Wizard					
System B			1.0		
The order of the YDIF connecte (only for devices within the same	d devices c le series).	an be changed by dragg	ing and dropping	100-17	
YDIF Connected		ANALOG Con	nected	DANTE Con	nected
DEVICE		DEVICE		DEVICE	
04 MTX5-D	÷.		÷	31 XMV4280-D	*
30 XMV4280					
	Ŧ				
Refresh			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 example we are not using a DCP, so leave the settings as they are.

🗿 Device Co	nfiguration Wizard						×
System B					31 4		
Assign and	name the Digital Co	ntrol Panels con	nected to each M	FX.			
DEVICE	04 MTX5-D 🔻						
ID	MODEL	10.00	Name				
0	None	•]		1.1			
1	None	•		1			
2	None	•					
3	None						
4	None						
5	None						
6	None	•					
7	None	• [		] .			
				Cancel	< Pack	Next >	Finish
				Calicel	< DBCK	. DiexC≫	FROSD

**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 Diagram				×
	computer and devices to an Ethernet	Set DIP switch 4 (termination) to the position for the end of line DCP of	e ON each MTX.	
VDIF DCI		No.         No. <td>ANALOG</td> <td>DANTE</td>	ANALOG	DANTE
04 MTX5-D				31 XMV4280-D
				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 Editor

Here's how to make detailed MTX system settings in MTX 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 system is indicated by the system select tabs and the SYSTEM tab.

SYST	M tab			System select tab
MTX Editor				
	ler <u>A</u> bout			
	Eat	2 🔯 🖉		nline Offline
Project Syst	em: A:			
NETWORK	YDIF Digital Contr	of Panel	ANALOG	1
	02 EX:8			System A 2 System B
	0 1	2 3 4 5 6 7		3 No Assign
	03 EXo8			4 No Assign
				No Assign
System Dev	se Alert			
SYSTEM NAME Syste	DIM	MER OF		
YDIF MODE Distri	ution			

We'll start by making settings for System A.

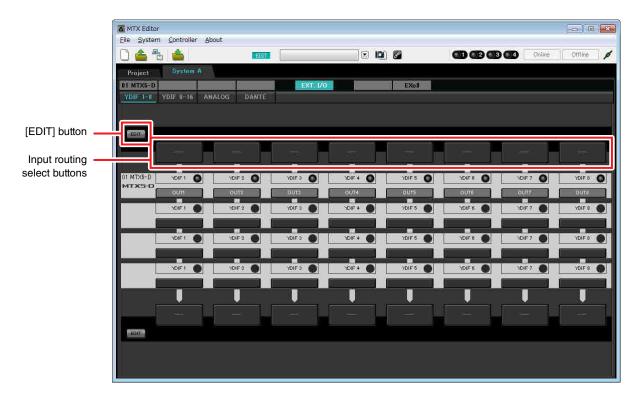
## Making EXT. I/O settings

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	8		
01 MTX5-D				EXT I/O
YBHE I-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.** In the upper left, click the [EDIT] button.

Now you can specify the outputs from the EXi8 to YDIF 1–8.

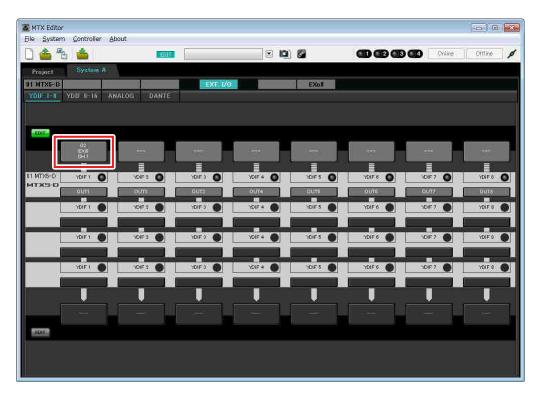
### 3. Click the input routing select button located above YDIF 1.

The "YDIF In Patch" dialog box will appear.

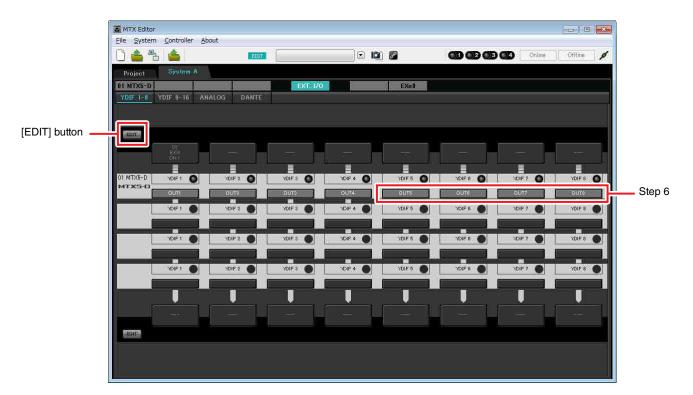
YDIF In: 1	▼ I
02 EXi8	

## 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. In the upper left, click [EDIT] to lock the settings.



**6.** 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.

hannel Sele	ct						
/DIF: 💽 5	••						
Thru							
INPUT CHA	NNEL(POST	ON)					
	2	3	4	5	6	7	8
9	10		12	13	14	15	[ 16 ]
IL ZONE OUT		2L	2R	3L )	3R		
	2	8	4	5	6	7	8
9	10	11	12	13	14.	15	16
OUTPUT							
	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
			Cla	se			

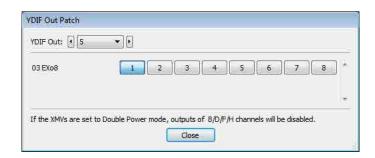
#### **7.** In the lower left, click the [EDIT] button.

Now you can specify the outputs from the MTX to YDIF 1-8.

MTX Editor						B -X.
<u>File System Controller Abo</u>	ut					
0 📤 🐁 📥	EDIT		8	00 00 00	Online	Offline 💋
Project System A						
01 MTX5-D	EX	r 1/0	EXo8			
YDIF 1-8 YDIF 9-16 ANA	LOG DANTE					
TEDIT						
00 EXI8 CHII				_		
01 MTX5-D YOIF 1		YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
MTX5-D	0072 0073	0074	ÔUT5	OUTE	0017	OUT8
YDIF 1	YDIF 2 YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
YDIF 1	YDIF 2 YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
			إ هج			L
YDIF1	YDIF 2 YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
EDIT						
EDIT] button		Output rou	iting select b	outtons		

### 8. Click the output routing select button located below YDIF 5.

The "YDIF Out Patch" dialog box will appear.



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

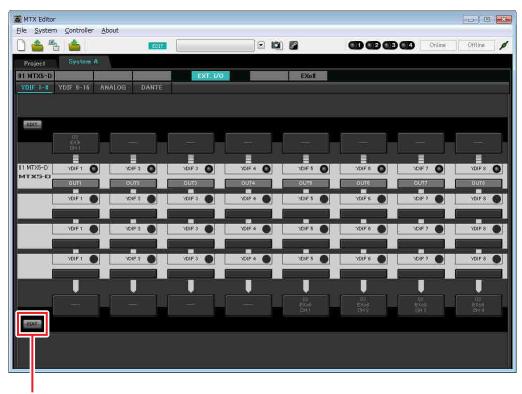
The YDIF 5 output routing select button shows that the YDIF 5 output has been assigned to CH 1 of the UNIT ID=03 EXo8.



**10.** 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.



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



[EDIT] button

## 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 Editor User's Manual." Here you'll make the following settings.

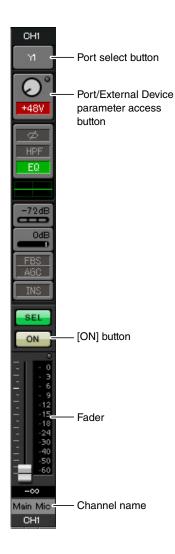
- Channel name
- Channel on/off
- Gain and phantom power
- (As necessary) EQ settings



## • 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)	
CH9 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

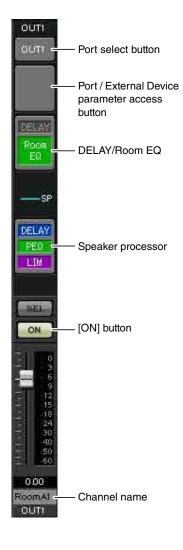
You can double-click this to edit the name. In this example, names have been assigned as follows.

CH1	Main Mic
СПІ	
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			
CH9	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 Editor User's Manual."

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

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



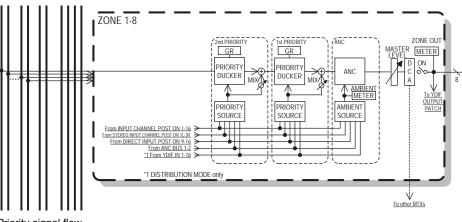
In this example, make the settings shown in the illustration in before page. Clicking a cross point (a square area) or dragging cross points will switch it on/off. If you right-click on a cross point, a context menu appears. You can select [All OFF] to turn off all cross points. The cross point shows 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 system are broadcast to this entire MTX system. Since the mic (CH1) of this MTX system and the mic (CH9) of the other MTX 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 with the signal from Priority, and output.

- Zone 2: This is for broadcasting the voice from the main mic (CH1) to the other MTX system.
- Zone 3: This is for broadcasting signals other than the main mic to the other MTX system.

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 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> PRIOR-ITY 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 Editor User's Manual."

## ■ 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 system will broadcast all of its own audio as well as all audio of the other MTX system, the main mic of this MTX system will be sent to Dante channel 9, and signals of this MTX system other than the main mic will be sent to Dante channel 10.



This completes settings for this MTX 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.

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ay:	Device Config					1
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## 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-D			
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. In the lower left, click the [EDIT] button.

Now you can specify the outputs from the MTX to YDIF 1-8.



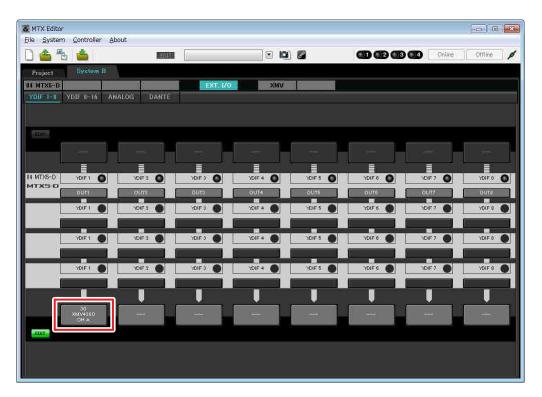
**3.** Click the output routing select button located below YDIF 1.

The "YDIF Out Patch" dialog box will appear.

YDIF Out Patch		
YDIF Out: 1	•	
30 XMV4280	A B C D	*
		-
If the XMVs are set	to Double Power mode, outputs of B/D/F/H channels will b	oe disabled.

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

The YDIF 1 output routing select button shows that the YDIF 1 output has been assigned to CH A of the UNIT ID=30 XMV4280.



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.



**6.** In the lower left, click [EDIT] button to lock the settings.

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	YDIF1	YDIF 2	YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
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	YDIF1	YDIF 2	YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
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	YDIF 1	YDIF 2	YDIF 3	YDIF 4	YDIF 5	YDIF 6	YDIF 7	YDIF 8
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	XMV9280 CH A	XMV4280 1H F	XMV9289. GH Q	XMY4288 CHD				
EDO								

[EDIT] button

## 7. Click [DANTE] button.

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



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

Now you can specify the outputs from the MTX to Dante. If the [Preserve the Dante settings configured by Dante Controller] check box is selected, clear the check box.



**9.** Click the output routing select button located below D OUT 5.

The "Dante Out Patch" dialog box will appear.

	1	2	3	4	5	6	7	8
[System A]01 MTX5-D	9	10	11	12	13	14	. 15	16
[System B] 31 XMV4280-D	A	В	C	D				

### 10. In "[System B]31 XMV428 ...", click [A].

The D OUT 5 output routing select button shows that the Dante 5 output has been assigned to CH A of the UNIT ID=31 XMV4280-D.



**11.** Change the output destination in the [Dante Out:] list box, to assign D OUT 6 through D OUT 8 to CH B through CH D of the XMV4280-D, and then click [Close] button.



**12.** In the lower left, click [EDIT] button to lock the settings.

TX Editor				
<u>File System Controller About</u>				
		o 🛍 🖉	OD O2 O3 O4 Onlin	e Offline 🖊
Project System 8				
04 MTX5-D	EXT. 1/0	VMX		
YDIF 1-8 YDIF 9-16 ANALOG DANTE				
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04 MTX5-D				
	<b>ITX</b>	)-LJ		
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31 XMX4289	31313131313131			
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### 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 Editor User's Manual." 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.

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 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.

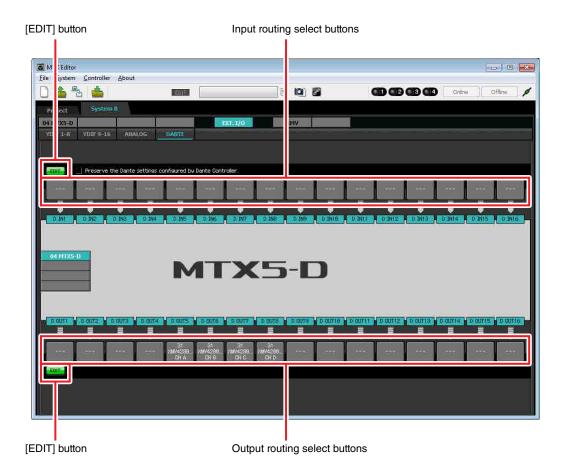
The "EXT. I/O" screen will appear, allowing you to make input/output settings for the external devices. If the Dante setting screen is not shown, click the [DANTE] button to access the Dante setting screen.

MTX Editor <u>File</u> System <u>Controller</u> About				
0 📤 🐁 📥 👘	EDIT	Image:		Online Offline 🖋
Project System 8				
04 HTX5-D YDIF 1-8 YDIF 9-16 ANALOG	DANTE	XNV		
HATT'S TOUTT'S MARKS				
Preserve the Dante sett	ings configured by Dante Controller.			
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		(5-D		
	CUT4 DOUTS DOUT6 DOUT	7 0 0018 0 0019 0 00118 0		
		A Dane Dania Danie -	D'OUTIN D'OUTIS D'OUTIS	
		8		
- ADDT		240		

### **2.** In the upper left and lower 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.



**3.** Click the input routing select button located above D IN9.

The "Dante In Patch" dialog box will appear.

		2	3	4	5	6		8	1
[System A]01 MTX5-D	9	10		12	13	14	15	16	1

### **4.** For CHANNEL, click [9] button.

The D IN9 input routing select button shows that it is assigned to the signal being output by the MTX5-D (UNIT ID=01) from D OUT9.



5. Change the input destination in the [Dante In:] list box, so that the signal being output from D OUT10 by the MTX5-D (UNIT ID=01) is assigned to D IN10, and then click [Close] button.



### **6.** Click the output routing select button located below D Out9.

The "Dante Out Patch" dialog box will appear.

System A]01 MTX5-D	1	2	3	4	5	6	. 7 .)	8	
Joystem Ajor Mixo-D	9	10	11	12	13	14	15	16	]
System B]31 XMV4280-D	A	В	C	D					

### 7. In "[System A]01 MTX5-D", click [9].

The D OUT9 output routing select button shows that it is assigned to the signal being input by the MTX5-D (UNIT ID=01) as D IN9.

MTX Editor			
File System Controller About			
			03 04 Online Offline 🖌
Project System 8			
04 MTX5-D	EXT. 1/0 XMV		
YDIF1-8 YDIF9-16 ANALOG DANTE			
Preserve the Dante settings configured by	Dante Controller		
	ung	91 81 45-D MTX5-D H 9 CH 18	
D INT D INZ D INS D IN4 D IN5		IN9 DINIB DINIT DINIE	DINIS DINIS DINIS
04 MTX5-D	<b>1TX5</b> -		
D OUTI D OUT2 D OUT3 D OUT4 D OUT5	EXTERNAL CREATER EXTERNAL CREAT	UT9 D OUT18 D OUT11 D OUT12	D'OUT18 D'OUT14 D'OUT15 D'OUT16
	· · · · · · ·		
31 /##/4258 CH A	XMV4286 XMV4288 XMV4286 MTR	9) (S-D) H-9	

8. Change the output destination in the [Dante Out:] list box, so that the output of D OUT10 will be input to D IN10 of the MTX5-D (UNIT ID=01), and then click [Close] button.

MTX Editor File System Controller About				
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Project System 8				
04 HTX5-D YDIF 1-8 YDIF 9-16 ANALOG D	EXT. 1/0	XMV		
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	MTX	5-D		
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EDIT				

**9.** In the upper left and lower 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 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

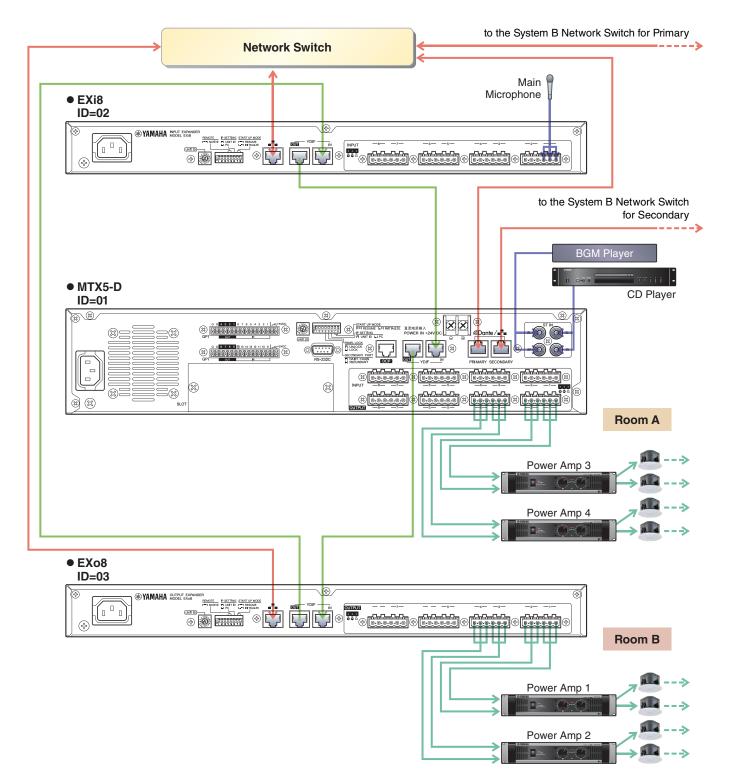
If you don't store the preset, alert number 61 will occur.

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

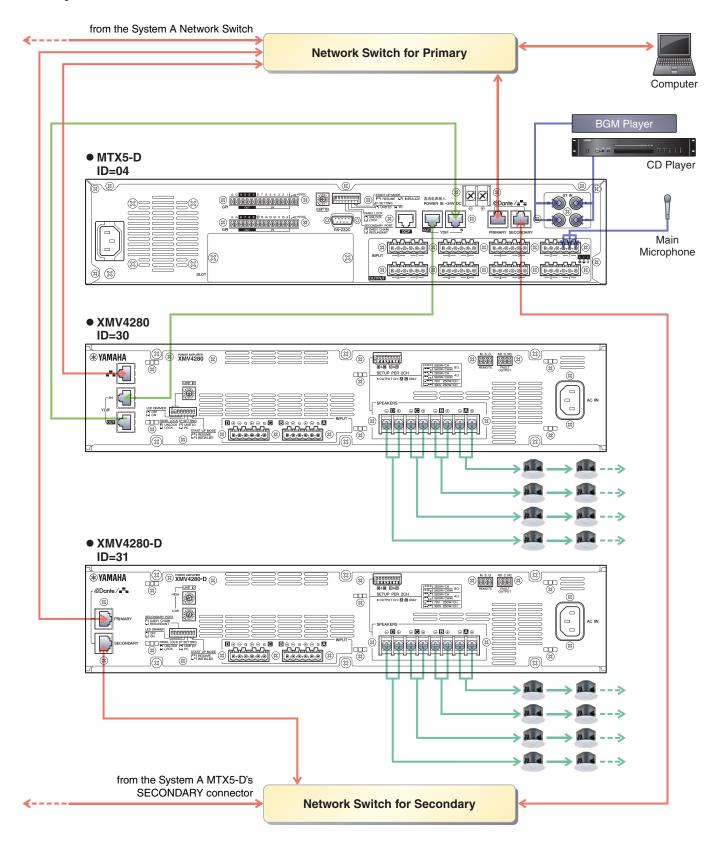
### **Connecting the equipment**

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

General					
You can get IP settings a this capability. Otherwis for the appropriate IP se	e, you need to				
🕞 Obtain an IP addre	ss automatical	ly			
OUSE the following I	<sup>o</sup> address:				
IP address:		192 . 16	8.0	. 253	
Subnet mask:		255 . 25	5.25	5.0	1
Default gateway:		187	8	34	1
Cobtain DNS server	address autor	natically			
Ogtain bits server     Ogtain bits server     Ogtain bits server		0.2.171.144.1M			
Preferred DNS server	naki de trae te ante R	105 Jacobara 105	7.9		1
Alternate DNS server	8	43(	3	86	1
Validate settings u	ipon exit			Adva	nced

### 7. Click [OK].

#### NOTE

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

### **Taking MTX Editor online**

In the upper right of MTX 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 Editor will be sent to the MTX.

To Device © From Device	ronization		2	📝 System A	OFFLINE	details
	Device	© From Device		System B	OFFLINE	details
	1188035					detáila
				- No Astrian	LOST	detaila
OK Cancel System Message Select the systems to go online and then click [Online] button.			<u></u> ]	System Message Select the systems	s to go online and then click (Online) b	utton

### **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 Editor User's Manual." Perform these checks for each MTX 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.

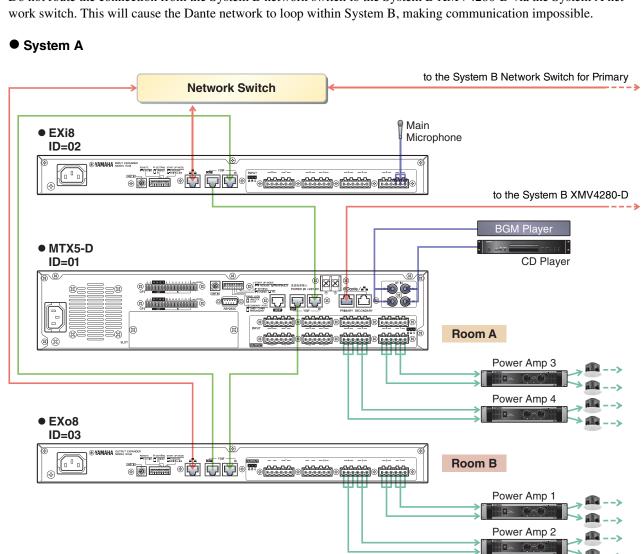
Using the input/output faders in the "MAIN" screen, adjust the levels. As necessary, apply the output limiter in the "CHANNEL EDIT" screen to prevent your speakers from being damaged. Adjust the amp attenuator values to obtain the optimal S/N ratio. In addition, make FBS settings as necessary.

### 4. Store the preset.

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

### This completes the settings for example 4.

# Q&A



**Q:** If YDIF connections are in a ring, does the order of connections matter?

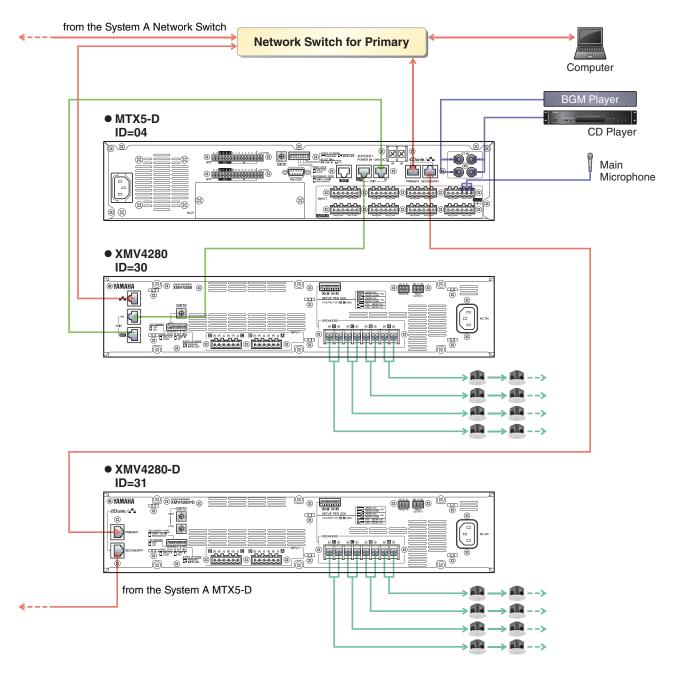
A: The order is very important. If you ignore the order, it will not be possible to correctly specify the YDIF routing. Make connections according to the "Configuration Diagram" displayed in [File] menu  $\rightarrow$  [Print Configuration Diagram].

**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-





# Uninstalling the software (Removing the application)

Use "Control Panel" to uninstall the software.

In Control Panel, click [Programs and functions] or [Uninstall a program], then select the item you want to uninstall, and click [Uninstall or change].

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].

The way to access Control Panel will depend on your operating system.

### • Windows 7 users

Click [Start]  $\rightarrow$  [Control Panel].

#### • Windows 8 users

- 1. In the start screen, click [Desktop]. The desktop will appear.
- 2. Move the cursor to the upper right or lower right of the desktop. The charms bar will appear.
- 3. Click [Settings]  $\rightarrow$  [Control Panel].

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