## Roland

# **S-4000 RCS** Version 2.4

# **User's Guide**



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## About S-4000 RCS

S-4000 RCS is an application that lets you manage and perform setup of the Digital Snake system from your computer.

The S-4000 RCS enables you to perform management and following setups.

- Editing the channel settings of the Digital Snake system (p. 13)
- Editing the S-4000M's Input/Output Settings (p. 22)
- Managing the M-48 Live Personal Mixer (p. 31)

S-4000 RCS is able to edit and manage up to four Digital Snake systems.

## **System Requirements**

Professional SP2 or later	
Windows Vista SP1 or later	
Windows 7	
Windows 8/8.1	
* S-4000 RCS does not work with the 64-bit Edition of Windows XP	
with the 64-bit Edition of Windows Vista	
with Windows XP Media Center Edition.	
or compatible processor, 1.6GHz or faster	
es regarding the compatibility of processors.	
1024 x 768 pixels or higher, 65,536 colors (16-bit color) or higher	
ub 9pins)	
ace of your computer works properly.	
₽>	
on cable or conversion adaptor to your computer	
make all the serial interfaces work properly	
nake an the senar mendees work property.	
serial conversion cables and conversion adaptors	
nay make the system unstable. Please do not use	
gurations.	
-	

\* While under most conditions, a computer similar to the above will permit normal operation of the S-4000 RCS, Roland Corporation and its affiliates cannot guarantee compatibility solely on these factors. This is due to numerous variables that may influence the processing environment, such as differences in motherboard design and the particular combination of other devices involved.

## Starting and exiting S-4000 RCS

## **Starting S-4000 RCS**

1. In the [S-4000RCS] folder, double-click the "S4000 RCS". S-4000 RCS will start up, and the S-4000 RCS window will appear.

• <u>I</u>	dit Controller <u>H</u> elp		
	Scene Memory		CONTROL 1 1 2 3 4 5 6 7 8 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 29 29 20 31 32
io.	Name	M-48 Memory	Device: S=4000MI Control Contr
		01 -	Status Ready Lock M M M M M M M M M M M M M M M
	Scene 01		Port- COMI 😨 🔍 🖏
	Scene 03		
5		-	1: IN 1 + 1: IN 2 + 1: IN 3 + 1: IN 4 + 1: IN 5 + 1: IN 6 + 1: IN 7 + 1: IN 8 +
16		-	+487 0 +487 0 +487 0 +487 0 +487 0 +487 0 +487 0 +487 0 +487 0 +487
		-	
8		-	PAD - 18 PAD - 31 PAD - 18 PAD - 18 PAD - 31 PAD - 18 PAD
19		-	
		-	
		× 📼	
			Kick Snare HH Tom1 Tom2 Tom3 OHL OHR

## **Exiting S-4000 RCS**

 In the S-4000 RCS window, Windows: From the "File" menu, choose "Exit". Mac: From the "S-4000 RCS" menu, choose "Quit S-4000 RCS". S-4000 RCS will close.

### MEMO

If there's been a change in the S-4000 RCS project (p. 6), a message will ask whether you want to save the project before exiting S-4000 RCS.

## **About S-4000 RCS projects**

S-4000 RCS data is called an S-4000 RCS project. An S-4000 RCS project can be saved as an S-4000 RCS project file (extension: .s4r). An S-4000 RCS project contains the following data.

- Channel names of the Digital Snake system
- Serial port selection for controllers 1-4
- Scene memories
- M-48 list order
- M-48 library data
- \* The following data is not included in an S-4000 RCS project.
  - The memory of the Digital Snake system(s)
  - The S-4000M's input/output settings
  - The memory of the M-48 unit(s)

## Saving an S-4000 RCS project

- 1. From the "File" menu, choose "Save as..." The "Save As" dialog box will appear.
- 2. Specify the location and file name for saving the S-4000 RCS project.
- 3. Click the [Save] button. The S-4000 RCS project file will be saved.

## **Opening an S-4000 RCS project file**

### **Opening a new S-4000 RCS project file**

1. From the "File" menu, choose "New." A new S-4000 RCS project will open.

## **Opening an existing S-4000 RCS project file**

- 1. From the "File" menu, choose "Open..." The "Open" dialog box will appear.
- 2. Select the desired S-4000 RCS project file and click the [Open] button. The S-4000 RCS project file will open.

### MEMO

If a change has been made in the S-4000 RCS project file, a message box will ask whether you want to save the project.

#### MEMO

If a change has been made in the S-4000 RCS project file, a message box will ask whether you want to save the project.

# Digital snake system settings

## **Connections with a Digital Snake system**

## Serial port connections

Connect your computer to the Digital Snake systems as shown in the illustration below. You can connect up to four Digital Snake systems to a single computer.



## **Caution for serial connections**

- \* Use the RS-232C cable accessory of the S-4000 Digital Snake system to connect your computer and the S-4000 system. If it's necessary to use longer or shorter cable, please purchase RS-232C cable (D-Sub 9pins/male-female/ straight type).
- \* It is recommended to use a cable 15meters in length or shorter.
- \* For information of REMOTE connector's pin configuration, refer to the owner's manuals for respective products.

## **USB port connection**

On the S-2416, you can use the USB port for connection to a computer.

A serial driver must be installed on the computer connected via USB to the S-2416.

A SETUP file for serial driver installation is available at the following Roland website.

#### http://www.roland.com/support/

When a USB connection is made, a new serial port (COM port) is created on the computer. Communication is made using the newly created serial port.



#### When a USB connection has been established, resetting the power on the S-2416 being controlled by S-4000 RCS causes communication to be lost. If this happens, reattach the USB cable.

## MEMO

Serial and USB connections can be combined to control up to four Digital Snake systems.

## Starting a connection with a Digital Snake system

1. In the controller's serial port select box, choose the serial port to which the desired Digital Snake system is connected.

When the connection is established, the current channel settings of the Digital Snake system will be loaded into the controller.



## **Caution when starting a connection**

- \* Any channel settings that were made for the controller prior to establishing the connection will be discarded. (However, the channel names will remain.) By storing the scene memory before you start the connection, you can save the channel settings to the S-4000 RCS project.
- \* When you select a serial port, the "Virtual" unit indication (p. 49) in the M-48 Manager window (p. 41) will no longer be shown. By storing the settings of the "Virtual" unit to the M-48 library before you select a serial port, you can save the settings to the S-4000 RCS project.

### If more than one system is connected

- 1. From the "Controller" menu, choose #1-#4 to open a controller.
- 2. Assign each connected Digital Snake system to a controller by selecting the serial port for each controller.



### MEMO

A single serial port cannot be selected for more than one controller.

## **Operations in the S-4000 RCS window**

## About the menus

## Windows

<u>File menu</u>	
• New	Creates a new S-4000 RCS project.
Open	Opens an S-4000 RCS project file.
• Save	Saves the S-4000 RCS project.
• Save As	Saves the S-4000 RCS project under a different name.
• Exit	Quits the S-4000 RCS application.
<u>Controller menu</u>	
• #1 – #4	Opens the controller of the checked number.
Meter Setup	Opens the Meter Setup dialog box (p. 17).
• Clear Clip	Clears any lit clip indicators.
• Updater <sup>*</sup>	Updates the system program of the Digital Snake.
<u>Help menu</u>	
• About S-4000 RCS	Displays the software version of the S-4000 RCS.
Мас	
S-4000 RCS menu	
	Displays the software version of the 5 4000 DCS
• About 5-4000 RCS	Ouite the S 4000 PCS application
• Quit 3-4000 RC3	Quits the 5-4000 RC3 application.
<u>File menu</u>	
• New	Creates a new S-4000 RCS project.
• Open	Opens an S-4000 RCS project file.
• Save	Saves the S-4000 RCS project.
Save As	Saves the S-4000 RCS project under a different name.
<u>Controller menu</u>	

#1 – #4	Opens the controller of the checked number.
Meter Setup	Opens the Meter Setup dialog box (p. 17).
Clear Clip	Clears any lit clip indicators.
Updater <sup>*</sup>	Updates the system program of the Digital Snake
	#1 – #4 Meter Setup Clear Clip Updater <sup>*</sup>

\* For steps to update system program, refer to the guidance document provided with the updater.

## The S-4000 RCS window

## Controller



## MEMO

The S-4000 RCS window is the main window of the S-4000 RCS application.

## MEMO

If the S-4000 RCS project has been edited, an "\*" will be added to the end of the project name.

ltem	Name	Function
0	Project name	Indicates the name of the S-4000 RCS project that is currently open.
2	Scene memory	Here you can perform scene memory operations (p. 20).
3	Controller	Here you can edit channel settings for the Digital Snake system (p. 13).

## Editing the channel settings of the Digital Snake system

## Controller



ltem	Name	Function
0	Device Name	Displays name of the Digital Snake device
2	Memory number	Indicates the currently selected memory number.
3	Serial communication indi- cator	Indicates the status of serial communication between S-4000 RCS and the S-4000 system.         Ready       : Serial communication is established         REAC Down       : No REAC communication         Host Down       : No serial communication          : No Serial port is selected
4	Serial port selection box	Selects a serial port.
5	[Recall] button	Recalls the channel settings of the selected memory.
6	[Store] button	Saves the channel settings in the selected memory.
7	[CLIP] button	Click this to clear the clip indicators and peak hold indicators. When a level meter's clip indicator lights, this button will blink red.
8	[LOCK] button	Locks/unlocks the controller. If the controller is locked, this will be lit or blinking orange.
0	Channel number	Indicates the channel number.         Brown background       : Indicates an input of the REAC master device.         Purple background       : Indicates an input of a REAC slave device.
10	Level meter	Indicates the input level. You can click this to select a channel.
0	+48V indicator	Indicates the on/off status of +48V phantom power. When on, this will light red.
12	[M-48] button	Opens the M-48 Manager window (p. 41).
13	Channel edit panel	In this panel you can edit the channel settings.
14	[info] button	Opens the Device Info dialog box (p. 18).
15	Channel number	Clicking the arrow shown by the channel number will turn stereo link on/off.
10	Input Select Box	This is valid for the S-4000M REAC MERGE UNIT only. This part displays the physical input number (of the REAC slave device) assigned to the channel. Click here to change the assignment (p. 16).
Ū	[+48V] button	Turns +48V phantom power on/off. When on, this will light red.
18	[PAD] button	Turns the pad on/off. When on, this will light orange.

### MEMO

The serial port selection and the channel names are saved in the S-4000 RCS project.

## MEMO

In the input select box, a physical input number is shown in red, if the input does not exist in the system.

ltem	Name	Function
20	Channel name	Indicates the channel name. Double-click this to edit the channel name.
2	Channel level meter	Indicates the input level.

## **Opening a controller**

1. From the "Controller" menu, choose "#1-#4". Click to add a check mark. The controller will open.

## Opening the controller's channel edit panel

If more than one controller is open, the channel edit panel is shown for only one controller.

- 1. Click the desired controller.
  - The controller's channel edit panel will open.

If S-4000 RCS is connected to a split REAC device, it is only possible to view the channel settings and level meters.

## Locking/unlocking the controller

You can lock the controller to prohibit channel settings from being edited. This lets you prevent channel settings from being inadvertently changed.

- 1. Click the [LOCK] button to lock or unlock the controller. If the controller is locked, the [LOCK] button will light or blink orange.
- \* If S-4000 RCS (or an S-4000R remote controller) is connected to both the REAC master device and to a REAC slave device, you can unlock only one of the controllers. At this time, the other controller will automatically be locked, and the [LOCK] button will blink.

## **Storage of channel settings**

The channel settings of the Digital Snake system are backed up to the internal memory of the REAC master device approximately every 30 seconds. The backed-up settings will be restored the next time you turn on the power.

If you want to execute a backup immediately, perform the following operation.

1. Click the [LOCK] button to switch the lock status. The channel settings will be backed up to the internal memory of the REAC master device.

## **Editing the channel name**

1. Double-click the channel name. The channel name will be editable.

#### MEMO

The channel name is also used as the source name in the M-48 Source Lev/Pan window (p. 50) and the M-48 Source Assign window (p. 52).

## Turning stereo link on/off

1. Click the arrow beside the channel number to turn stereo link on/off.



- \* Pairing is possible only for adjacent odd-numbered/even-numbered channels.
- \* When you turn stereo link on, the preamp gain and pad settings of the odd-numbered channel will be copied to the even-numbered channel. Even if you then turn stereo link off, the even-numbered channel will not return to its prior state.
- \* Phantom power can be turned on/off individually even if stereo link is on.

## Turning +48V phantom power on/off

1. Click the [+48V] button to turn +48V phantom power on/off. If +48V phantom power is on, the [+48V] button will light red.

## Caution when using +48V phantom power

\* You must turn phantom power off if a device not requiring phantom power is connected. Malfunctions will occur if phantom power is supplied to a dynamic microphone, audio playback device, or any other device that does not require phantom power. Carefully read the owner's manual included with the microphone or other device you're using, and verify its specifications.

## Adjusting the preamp gain

1. Drag the gain knob of the desired channel up / down or left / right to adjust the preamp gain.

The gain adjustment range will depend on the state of the [PAD] button.

[PAD] button	Gain adjustment range	
Off	-65 – -10 dBu	
On	-45 – +10 dBu	

## **Operations using the keyboard**

Кеу	Operation	
[←]/[→]	Selects a channel	
[shift] + [ ← ] / [ → ]	Selects a channel (in 8-channel steps)	
[ + ]/[ + ]	Increases/decreases the preamp gain (1 dB steps)	
[shift] + [ ♠ ] / [ ↓ ]	Opens the channel edit panel for the controller above or below	
[L]	Turns channel link on/off	
[P]	Turns PAD on/off	
[enter]	Edits the channel name	

### MEMO

When you switch the [+48V] button on/off, that channel will be temporarily muted to prevent noise from being produced.

## MEMO

When you switch the [PAD] button on/off, that channel will be temporarily muted to prevent noise from being produced.

## **Assigning Physical Inputs to Channels (S-4000M)**

You can assign the physical inputs (of the REAC slave device) to the channels (being sent to the REAC master device).

**1.** Select the physical input number on the input select box of the target channel. Select REAC slave device first and then select input number.

## Select sources to be displayed (S-MADI)

You can select sources to be displayed on the controller.

1. Click the REAC IN tab or the MADI IN tab to select the sources to be displayed on the controller connected to the S-MADI.

	ie
	•••••••••••••••••••••••••••••••••••••••
DEAC IN	MADUN

Tab	Sources to be displayed	
REAC IN	REAC MAIN input signals	
MADI IN	MADI IN signals	

## Setting the S-MADI's configuration

You can select the sources to be output from the S-MADI's REAC SPLIT OUT connector and the sources to be displayed on an S-4000R connected to the S-MADI.

1. Click the [info] button 🔟 on the controller connected to the S-MADI.



The S-MADI Configuration dialog box will appear.

## 2. Select the sources to be output from the REAC SPLIT OUT connector with REAC SPLIT OUT Source selection button 1.

Selection	Sources output from the REAC SPLIT OUT	
REAC IN	REAC MAIN input signals	
MADI IN	MADI IN signals	

3. Select the sources to be displayed on the S-4000R with S-4000R target button **2**.

Selection	Sources displayed on the S-4000R	
REAC IN	REAC MAIN input signals	
MADI IN	MADI IN signals	

4. Click the [OK] button.

MEMO

You can also change the assignment on the S-4000M Merge Patchbay (p. 24).

MEMO

When an S-4000M is connected to the S-MADI's REAC MAIN connector, clicking the [info] button on the controller opens the S-4000M Configuration window (p. 22) . You can open the S-MADI Configuration window by clicking the [info] button of the S-MADI on this window.

## Level meter settings

You can specify the duration that the clip indicator and peak hold indicator of the level meter will remain lit.

Clin in diastor	1	2
Clip indicator —		-
Peak hold —	-	
		1.1
	1	i ti
	12	

1. From the "Controller" menu, choose "Meter Setup..."

Meter Setup	×
Hold Time Clip Continue	Cancel
2 Peak off	<b>_</b>

The Meter Setup dialog box will appear.

2. In the Clip selection box (1), specify the duration that the clip indicator is to remain lit.

Selection	Operation
1sec – 4sec	The clip indicator will remain lit for one to four seconds. After this time has elapsed, the clip indicator will be cleared automatically.
continue	The clip indicator will remain lit until you click the [CLIP] button to clear the level meter.

3. In the Peak selection box 2, specify the duration that the peak indicator is to remain lit.

Selection	Operation
Off	The peak hold indicator will not be shown.
1sec – 4sec	The peak hold indicator will remain lit for one to four seconds. After this time has elapsed, it will be cleared automatically.
continue	The peak hold indicator will remain lit until you click the [CLIP] button to clear the level meter.

#### 4. Click the [OK] button.

The level meter settings will be applied.

#### MEMO

The level meter settings are saved as settings for the application.

#### MEMO

The level meter settings apply to all meters within S-4000 RCS.



## Changing the sample rate of the Digital Snake system

This describes how to change the sample rate of a Digital Snake system that is directly connected to S-4000 RCS via a serial or USB connection and whose REAC mode is set to "master."

1. In the controller, go to the channel edit panel and click the [info] button.



The sample rate of the Digital Snake system is displayed.

2. Click the sample rate you want to change to.

S-4000	S-4000 RCS		
2	This stops audio transfer for few seconds. Are you sure you want to set Sample Rate?		
	ОК	Cancel	

A message prompting you to confirm the operation is displayed. To change the setting, click the [OK] button. To cancel the change, click the [Cancel] button.

- \* The sample rate of the S-4000H is fixed at 96 kHz, and cannot be changed using this procedure.
- \* The sample rate of S-2416 or S-MADI units cannot be changed using this procedure. Make the change on the unit itself.
- \* The sample rate cannot be changed when the controller is locked. To make the change, first unlock the controller (p. 14), then make the setting.
- \* This function is not available on digital snakes running software versions earlier than those listed below.

Please download the latest software from the "Support" page of the respective product on the Roland website (http://roland.com/).

- S-4000S3208/S-4000S0832/S-4000S-MR: Ver.2.500
- S-1608/S-0816: Ver.2.200
- S-0808: Ver.1.003
- S-2416: Ver.1.001

When the sample rate has been changed, audio is interrupted until REAC communication is established.

## Using scene memories

## What are scene memories

The current channel settings of controllers 1–4 can be stored as a scene and recalled when desired. These settings are called "scene memories."

#### How scene memories are associated with M-48 memories

If an M-48 unit is connected to the Digital Snake system, you can associate scene memories with M-48 memories. An M-48 memory can be stored at the same time that you store a scene, or an M-48 memory can be recalled at the same time that you recall a scene.

#### **Notes regarding scene memories**

- \* Scene memories are saved within the S-4000 RCS project.
- \* An S-4000 RCS project can contain one hundred scenes.
- \* Scene memories can be stored and recalled even if a connection has not been established.
- \* Storage and recall of M-48 memories occurs within the M-48's internal memory.
- \* If the M-48 is not connected to the system, M-48 memories will not be stored or recalled.
- \* Scene memories doesn't store/recall the S-4000M's input/output setups (p. 22).

## **Scene memories**



ltem	Name		Function
0	Scene list	No.	Indicates the scene number.
		Name	Indicates the scene name. You can double-click this to edit the scene name.
		M-48 Memory selection box	Selects the M-48 memory number that will be associated with each scene.
2	[Recall] button		Recalls the channel settings from the selected scene.
3	[Store] button		Stores the channel settings to the selected scene.

MEMO

The current scene is shown in green.

Storing channel settings to a scene 1. Click the desired scene to specify the storage destination. 2. Click the [Store] button. Scene Memory Store M-48 Memory Store to 01 -00 Scene 00 5 The Scene Memory Store dialog box will appear. 3. Verify that the desired scene number 1 is shown. 4. Edit the scene name in the scene name edit box 2. If you also want M-48 memories to be stored at the same time, make the following settings. • In the M-48 Memory area, select the "Store to" check box 3. • In the M-48 Memory area, use the M-48 memory number selection box 4 to select the store-destination memory number. 5. Click the [Store] button 5. The scene will be stored, and the Scene Memory Store dialog box will close.

## **Recalling channel settings from a scene**

1. Click the desired scene to select it, and then click the [Recall] button. The scene will be recalled.

## Editing the name of a scene

**1. Double-click the name of the desired scene.** The scene name will become editable.

## Associating scene recall with M-48 memory recall

 In the M-48 Memory selection box of the desired scene, select the M-48 memory number that you want to associate with the scene.
 When you recall that scene, the associated M-48 memory will be recalled at the same time. (Units whose MEMORY SAFE function (p. 43) is turned on are excepted.)

## MEMO

The scene name can consist of a maximum of 16 single-byte alphanumeric characters.

## MEMO

The scene name can consist of a maximum of 16 single-byte alphanumeric characters.

The S-4000M has a Merge patchbay and an Output patchbay (Output patchbay supports S-0808 8x8 I/O UNITS only). You can edit the S-4000M's Merge/Output patchbays using S-4000 RCS to change input/output assignments.

## **Merge Patchbay**

This merges the inputs of the REAC slave units (REAC ports 1–4) into the channels being sent to the REAC master unit (REAC port A).

## **Output Patchbay**

This assigns the channels being sent from the REAC master unit (REAC port A) to the outputs of the S-0808 units (REAC ports 1–4).

\* You cannot edit an S-4000M's input/output settings when the S-4000M is set to the THRU mode.

## **Storing Input/Output Setups**

The S-4000M input/output setup is saved to internal memory. The S-4000M configuration window loads and displays the setup from the connected S-4000M.

You can save and load S-4000M input and output setups as a computer file (p. 30).

\* S-4000M's input/output setups cannot be saved as part of scene memory.

## S-4000M Configuration Window



ltem	Name	Function					
0	SLAVE device display	Displays the REAC slave devices connected to REAC ports 1–4.					
2	S-4000M display	Displays how the REAC slave devices are being patched through the REAC master device.					
3	MASTER device display	Displays the REAC master device connected to REAC port A.					
4	LOCK button	Locks/unlocks the operation. If the operation is locked, this will be lit or blinking orange.					
5	Split merged inputs button	Check this button to send the merged inputs, being sent to the REAC master device, to REAC port 4 as well (p. 28).					

ltem	Name	Function
6	[LOAD Config] button	Click here to load an S-4000M input/output setup file (p. 30).
7	[SAVE Config] button	Click here to save the S-4000M input/output setup to a file (p. 30).
8	[AUTO MAP SLAVE UNITS] button	Click here to reset input/output setup (p. 23)
9	View Select button	Click here to select view. You can select MERGE view (p. 24) or OUTPUT view (p. 26).
10	[info] buttons 🚺	Click [info] buttons of the SLAVE device display, S-4000M display or MASTER device display to check device name and system version numbers.

## **Opening S-4000M Configuration Window**

1. Click [info] button on the controller connected to S-4000M. The S-4000M Configuration Window opens.

## **Resetting Input/Output Setups (System Reset)**

You can reset and optimize the merge/output patchbays according to the devices physically connected to REAC ports 1–4.

- 1. Open S-4000M Configuration Window.
- 2. Click [AUTO MAP SLAVE UNITS] button.

The confirmation message box opens to confirm your operation.

Click [OK].
 S-4000M's input/output setup will be reset.

## MEMO

The [AUTO MAP SLAVE UNITS] button of S-4000 RCS has the same function as physical button on S-4000M's front panel.

#### **Merge Patchbay Operations MERGE View** SONTROL 1 S-4000M Configuration SLAVE 000-0 000-0 1 Port 1 Port 2 Port 3 Port 4 Port 4 Option 2 Split merged inputs Commands Port A S-4000M o 3 1-32 View MERGE OUTPUT MASTER Function Item Name SLAVE devices Displays the physical input numbers of the connected REAC slave devices. 0 inputs Displays overall view of the S-4000M's merge patchbay. Click here to open Merge Patchbay 2 the S-4000M Merge Patchbay Window. (p. 24) Channels to 3 Displays the number of channels being sent to the REAC master device. MASTER **Switching to MERGE View**

- 1. Open the S-4000M Configuration Window
- 2. Click [MERGE] of View Select Button. You can switch to MERGE View.

## S-4000M Merge Patchbay Window



ltem	Name	Function
0	REAC Port Select But- tons	Click to select the REAC port.
2	[Clear] button	Click to clear all assignments of currently selected REAC port.
3	Port A Channel display	Displays channel numbers, names and the currently assigned physical inputs.
4	Input display	Displays physical input number of current REAC port and signal level.
6	Patchbay Grid	Icon eppears at the cross point of channel (vertical) and physical input (horizontal).
6	Invalid Area	<ul><li>The following areas are displayed in lighter gray:</li><li>The input area where the REAC slave devices cannot be used.</li><li>The channel area where the REAC master device cannot be used.</li></ul>

The following colors represent corresponding signal levels:

Color	Signal Level
🔲 Yellow	-18dB or higher
🔲 Green	-48dB or higher, lower than -18dB
📕 Black	lower than -48dB

## **Opening the S-4000M Merge Patchbay window**

- 1. Open the S-4000M Configuration window.
- 2. Switch to MERGE view.
- 3. Click Merge Patchbay. The S-4000M Merge Patchbay window opens.

#### Making assignment in the S-4000M Merge Patchbay

- 1. Open the S-4000M Merge Patchbay window.
- 2. Select the REAC port to display by clicking a specific REAC Port button.
- 3. Click the intersection of the target channel and physical input number.

An icon 4 appears at the intersection and the assignment of the input is changed.

## **Clearing All Assignments**

- 1. Open the S-4000M Merge Patchbay window.
- 2. Select the target REAC port by clicking a specific REAC Port button.
- 3. Click [Clear] button

A confirmation message box opens to confirm your operation.

4. Click [OK]

All assignments associated with the REAC port selected in a step 2 are cleared.

## **Output Patchbay Operations (S-0808)**

## **OUTPUT View**



ltem	Name	Function
	SLAVE devices	Displays the available physical output numbers of the connected
	outputs	REAC slave devises.
2	Output Patchbay	Displays the overall view of the S-4000M's output patchbay. Click here to open the S-4000M Output Patchbay Window.(p. 26)
	Channels from	Displays the number of output channels being sent from the REAC
3	Master	master device.

## **Switching to OUTPUT View**

- 1. Open the S-4000M Configuration Window.
- 2. Click [OUTPUT] of View Select Button. Display is changed to OUTPUT View.

## S-4000M Output Patchbay Window



Item	Name	Function
0	[Clear] button	Click to clear all assignment
2	Port A channel display	Displays signal levels, channel numbers, names and the currently as- signed physical outputs.
3	Output display	Displays physical output number on connected REAC slave devices.
4	Patchbay Grid	Icon ppears at the intersection of channel (vertical) and phys- ical output (horizontal).
5	Invalid Area	<ul><li>The following areas are displayed in lighter gray:</li><li>The output area where the REAC slave devices cannot be used.</li><li>The channel area where the REAC master devices cannot be used.</li></ul>

The following colors represent corresponding signal levels:

Color	Signal Level
🧕 Red	0dB or higher
🖸 Yellow	-18dB or higher, lower than 0dB
💽 Green	-48dB or higher, lower than -18dB
Black	lower than -48dB

## **Opening the S-4000M Output Patchbay window**

- 1. Open the S-4000M Configuration Window.
- 2. Switch to OUTPUT view.
- **3.** Click target output patchbay. S-4000M's output patchbay opens.

#### Making assignments in the S-4000M's Output Patchbay window

- 1. Open target window of the S-4000M output patchbay.
- 2. Click the intersection of target channel and physical output number.

An icon for appears at the intersection and the assignment of output channel is changed.

## **Clearing All Assignments**

- 1. Open the S-4000M Output Patchbay Window.
- 2. Click [Clear] button. A confirmation message box opens to confirm the operation.
- 3. Click [OK]

All assignments are cleared.

#### MEMO

When "..." is displayed at the end of currently assigned output, it means same output channel is coming out from multiple physical outputs.

## **Splitting Merged Inputs (S-4000M's Split Function)**

By using the S-4000M's Split Function, you can split the merged inputs (being sent to the REAC master device) to REAC port 4. It is very convenient when splitting to a monitor console or a multi-channel recording system.

\* When a REAC splitter (like the S-4000D) is connected to the S-4000M's REAC port A, the signal from the REAC master device is split.



### Notes About the S-4000M's Split Function

- \* You can connect a REAC slave device to S-4000M's REAC port 4 via a REAC splitter (like the S-4000D). In this case, the physical inputs of the REAC slave device operate normally but all merged inputs being sent to the Master will being sent out from the physical outputs.
- \* If an M-48 is connected to the S-4000M's REAC port4, it is not possible to manage/setup the M-48 from the M-48 Manager window.
- \* When a REAC splitter (like the S-4000D) is connected to the S-4000M's REAC port A, the signal from the REAC master device is split.

## Using S-4000M's Split Function

1. Open the S-4000M Configuration window.

If the "Split merged inputs" button is checked, then the S-4000M's split function is already turned on. The following steps will not be necessary.

- 2. Disconnect the REAC cable connected to REAC port 4 on the S-4000M.
- 3. Click "Split merged inputs"

A confirmation message box opens to confirm the operation.

4. Click [OK]

The display mode of S-4000M changes. The signal of merged input channels are split and sent out the device connected to REAC port 4.

Split merged inputs

View MERGE OUTPUT

S-4000M o



Port A

1-8

MASTER

5. Connect the REAC cable to REAC port 4 on the S-4000M.

## Save/Load the S-4000M Input/Output Setup

## Saving the S-4000M Input/Output Setup as Computer File

- 1. Open S-4000M Configuration window.
- 2. Click [SAVE config] button.

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[Save As] dialog appears.

- 3. Specify save destination folder and file name.
- 4. Click [SAVE] button.

Saving is completed when "Complete" message is displayed. Click [OK] to close the message dialog.

### Loading the S-4000M Input/Output Setup File

- 1. Open S-4000M Configuration window.
- 2. Click [LOAD config] button.



[Open File] dialog appears.

- 3. Specify the file of S-4000M's input/output setup to load.
- 4. Click [OPEN] button.

# Managing the M-48 Live Personal Mixer

## What is the M-48 live personal mixer

The M-48 is a live personal mixer that allows each musician to create their own mix. By unifying the professional monitor mix created by the mixing engineer with the personal mix created by each musician, the M-48 provides a monitoring environment that's ideal for the musician.

## 40-channel mixer



The M-48 provides a REAC port that is able to receive up to 40 channels of digital audio via REAC. The digital audio sources are mixed by the internal 40-channel mixer for monitoring via headphones or monitor speakers.

## Settings and operations for the 40-channel mixer



The sources 1–40 being input via REAC are mixed by the M-48's 40-channel mixer. Settings and operation of the 40channel mixer are shared between the mixing engineer and the musician.

\* The 40 digital audio source channels being input via REAC to the M-48 are referred to as sources 1–40.

## Settings by the mixing engineer

These settings are made by the mixing engineer from the V-Mixer or the PC.

#### Source level / pan settings

These settings specify the LEVEL, PAN, and AUX switch settings for sources 1–40.

#### 2 Source assign settings

These settings assign sources 1–40 to sixteen stereo groups for operation on the M-48.

### **Operations performed by the musician**

These operations are performed by the musician on the M-48 unit.

#### Group mix

VOLUME, PAN, REVERB SEND, and 3-BAND EQ can be adjusted for each stereo group created by the source assign settings.

 The group mix can also be viewed and edited from the V-Mixer or PC.

## Two sets of outputs



The M-48 provides two sets of output: PHONES and LINE OUT.

#### PHONES

REVERB, AMBIENT MIC, and AUX IN are mixed into the MAIN bus, then BASS, TREBLE, and LIMITER are applied to the mix which is then output from these ports. This is used for headphones or in-ear monitoring.

#### **2** LINE OUT

As the LINE OUT source, you can choose either PHONES (the signal immediately before PHONES VOLUME), MAIN bus, or AUX bus. This is used for a floor monitor or for two-channel recording. Since a low-pass filter is provided on LINE OUT, it can also be used to output just the low frequency range to a floor monitor or tactile transducer.

## **Memory functionality**

The M-48 has 16 memories, and allows mixer settings to be stored or recalled. Memories 1–16 can be manipulated from the M-48 itself or from the V-Mixer or PC.

## Connections with an S-1608 system

## Note when connecting M-48 units (S-1608 system)

- \* The S-1608 system must be using system software version 2.0 or later.
- \* If S-4000 RCS is connected to an S-1608/S-0816 that is operating as a split REAC device, it will not be possible to make M-48 settings.
- \* Up to four S-4000D units can be connected in series. Approximately 200 microseconds of propagation delay will occur for each unit.
- \* Up to sixty-four M-48 units can be connected to each Digital Snake system.
- \* In order to maintain the transmission quality of the digital REAC signal, use fully approved CAT5e Ethernet cable such as the 20 meter or 100 meter REAC cables (SC-W20F / SC-W100S / W100S-R; sold separately).

## Note regarding the ordering of M-48 sources

The order in which channels are shown for controllers in the S-4000 RCS window may differ from the order of the M-48 sources.





This occurs because the REAC master device and REAC slave device handle channels in a different way than a split REAC device (M-48) handles channels.

On an S-1608 system, this discrepancy will occur in the following case.

• When the S-0816 is the REAC master device

### R

To check the version, refer to "Viewing version info for the Digital Snake" (p. 18).

## Example 1: S-1608 + M-48 (16 sources)

This is an example in which M-48 units are connected to the S-1608 (REAC master). A total of up to sixteen channels of direct out and bus out signals from the console can be input.



#### MEMO

In this example, the S-1608's OUTPUT 1–8 cannot be used.

## Example 2: S-1608 + S-0816 + M-48 (24 sources)

This is an example in which M-48 units are connected between a connected S-1608 (REAC master) and S-0816 (REAC slave). With sixteen channels from the stage and eight channels from the console, this makes a total of twenty-four channels as the sources for the M-48 units.



## **Connections with an S-4000 system**

## Note when connecting M-48 units (S-4000 system)

- \* The S-4000 system must be using system software version 2.1 or later.
- \* If S-4000 RCS is connected to an S-4000S/S-4000H that is operating as a split REAC device, it will not be possible to make M-48 settings.
- \* Up to four S-4000D units can be connected in series. Approximately 200 microseconds of propagation delay will occur for each unit.
- \* Up to sixty-four M-48 units can be connected to each Digital Snake system.
- \* In order to maintain the transmission quality of the digital REAC signal, use fully approved CAT5e Ethernet cable such as the 20 meter or 100 meter REAC cables (SC-W20F / SC-W100S / W100S-R; sold separately).

## Note regarding the ordering of M-48 sources

The order in which channels are shown for controllers in the S-4000 RCS window may differ from the order of the M-48 sources.

M-48 Source Lev/Pan window

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This occurs because the REAC master device and REAC slave device handle channels in a different way than a split REAC device (M-48) handles channels.

On an S-4000 system, this discrepancy will occur in the following cases.

- When the S-4000H is the REAC master device
- When the S-4000S is the REAC master device and an output module (e.g., SO-DA4 or SO-AES4) is installed in slot 1 of the S-4000S

## B

To check the version, refer to "Viewing version info for the Digital Snake" (p. 18).

## Example 1: S-4000S-4000 + M-48 (40 sources)

This is an example in which M-48 units are connected to an S-4000S-4000 (REAC master). A total of up to forty channels of direct out or bus out signals from the console can be input.



## MEMO

AES/EBU output from the digital mixer can also be received if the SI-AES4 is used as an input module for the S-4000S.

## Example 2: S-4000S-3208 + S-4000H + M-48 (32 sources)

This is an example in which M-48 units are connected between a connected S-4000S-3208 (REAC master) and S-4000H. The thirty-two channels from the stage will be the source for the M-48 units.



S-4000 RCS allows you to use the M-48 Manager to edit and manage M-48 units that are connected to the system. The mixing engineer can edit and manage the settings of each M-48 unit, allowing each musician to use their M-48 unit more conveniently.

The mixing engineer can make the following settings.

Setting	See page	Edit window
Editing the channel settings of the Digi- tal Snake system	p. 13	S-4000 RCS window
Editing the unit name	p. 43	M-48 Manager window
Editing the preference settings	p. 54	M-48 Preferences window
Setting the source's LEVEL, PAN, and AUX switch (Source level/pan settings)	p. 50	M-48 Source Lev/Pan window
Assigning sources to groups (Source as- sign settings)	p. 52	M-48 Source Assign window

You can also use the following functionality for editing and managing M-48 units.

Setting	See page	Edit window
View a list of connected M-48 units	p. 42	
Viewing and editing a musician's mix (Group mix)	p. 56	
Muting the output of a unit	p. 43	
Disabling memory operations from M- 48 Manager (MEMORY SAFE function)	p. 43	M-48 Manager window
Copying/pasting all parameters be- tween units	p. 44	
Unit memory operations	p. 45	
	p. 58	
Saving or loading the data of a unit	p. 45	
(Saving or loading an M-48 project file)	p. 62	
Using the M-48 library	p. 60	M-48 Library window
Associating scene recall with M-48 memory recall	p. 21	S-4000 RCS window

## Where settings are stored

Settings for each M-48 unit are stored within the respective M-48 unit. M-48 Manager can load the settings from each connected M-48 and edit them.

M-48 settings can be stored externally in either of the following two ways.

- Store the current settings to the M-48 library
- Save all M-48 data as an M-48 project file

#### MEMO

M-48 library data is stored within the S-4000 RCS project.

## **Operations in the M-48 Manager window**

## The M-48 Manager window



ltem	Name	Function
0	M-48 List	Here you can select one of the M-48 units connected to the system (p. 42).
2	Unit editing panel	Here you can edit the settings of the unit selected in the M-48 List (p. 48).

## **Opening the M-48 Manager window**

1. Press the [M-48] button of a controller to which an M-48 unit is connected.

The M-48 Manager window will open.

 The settings for each unit and the M-48 library data will remain even after you close the M-48 Manager window.

### **Operating from two computers**

If S-4000RCS is connected to both the REAC master device and a REAC slave device of the Digital Snake system, settings can be edited only from the computer that opened the M-48 Manager window first. If you open the M-48 Manager window on the other computer, the title bar will indicate "(View Only)," and editing will not be possible.

If you want to clear the "(View Only)" indication and enable editing, proceed as follows.

- 1. Close the M-48 Manager window on both computers.
- 2. Open the M-48 Manager window on the computer that you want to use for editing.

## MEMO

The M-48 Manager window can be opened individually for each controller.



To close the window, click the close button in the title bar.

## **Operations in the M-48 List**



ltem	Name		Function
0	[Menu] but	tton	This is the M-48 List menu.
2	[Recall All]	button	Recalls the memories of all units in the M-48 List.
3	[Store All] button		Stores the memories of all units in the M-48 List.
4	Number of	units	Indicates the number of units in the M-48 List.
	List	No.	Indicates the number within the M-48 List.
		Unit Name	Indicates the name of the unit. Double-click this to edit the unit name.
5		Memory No.	Indicates the current memory number.
		Memory Safe	If you click this to add a check mark, memory operations from M-48 Manager will be prohibited.
		Mute	If you click this to add a check mark, the unit's output will be muted.
6	Engineer's	Monitor area	This shows the unit designated as the Engineer's Monitor (p. 46)
7	[Mute Clea	r] button	Clears muting for all units in the M-48 List. This will blink red if any units are muted.

## MEMO

The unit currently shown in the M-48 edit panel (p. 48) is shown in green.

## <u>Menu</u>

Menu item	Function
Сору	Copies all current parameters of the unit selected in the M-48 List to the clipboard.
Paste	Pastes the copied parameters from the clipboard to the unit selected in the M-48 List.
Paste Special	Pastes the copied parameters from the clipboard to the unit selected in the M-48 List (you can select the content to be pasted).
Save Selected	Saves all data from the unit selected in the M-48 List as an M-48 project file.
Update All M-48*	Updates the system program of all units in the M-48 List.

\* For details on updating the M-48 system program, refer to the documentation provided with the updater.

## MEMO

Paste, Paste Special..., and Save Selected... can be executed on multiple units selected in the M-48 List.

## **Operations in the M-48 List**

## Selecting a unit

1. Click the desired unit.

## Editing the unit name

1. Double-click the Unit Name field of the desired unit.

The unit name will become editable.

## Changing the order of units in the list

- 1. Drag and drop a unit name to the desired location in the list. The order of the units displayed in the M-48 List will change.
- \* A blue line indicating the destination is shown while you drag the unit name.

## Muting the output of a unit

Here's how to mute all outputs of a unit.

1. Click the Mute field of the desired unit to make a check mark appear.

Muting will be turned off if you click the Mute field once again to clear the check mark.

 You can also mute the selected unit by using the [Mute] button in the M-48 edit panel (p. 48).

## Disabling memory operations from M-48 Manager (MEMORY SAFE function)

Units for which the MEMORY SAFE function is turned on will no longer respond to memory operations from M-48 Manager.

1. Click the Memory Safe field of the desired unit to make a check mark appear.

MEMORY SAFE will be turned off if you click the Memory Safe field once again to clear the check mark.

\* You can also turn the MEMORY SAFE function on/off for the selected unit by using the [Safe] button in the M-48 edit panel (p. 48).

It is convenient to use the MEMORY SAFE function for purposes such as the following.

- Preventing inadvertent memory operations when managing a large number of units
- Excluding a specific unit when associating scene memories and M-48 memories (p. 21)
- Excluding a specific unit from the M-48 List "Store All" operation (p. 45) or "Recall All]" operation (p. 45)

## MEMO

You can select multiple units by clicking while you hold down [Shift] or [Ctrl].

### MEMO

You can enter a unit name consisting of up to eight singlebyte alphanumeric characters.

## MEMO

The displayed order in the M-48 List is saved in the S-4000 RCS project.

## HINT

You can use the [Mute Clear] button to clear muting for all units in the M-48 List in a single step.

## **Menu operations**

## Copying/pasting all parameters between units

1. Select the copy-source unit, and click Menu > Copy.

All current parameters of the copy-source unit will be copied to the clipboard.

- \* If multiple units are selected in the M-48 List, the parameters will be copied from the unit you clicked last.
- 2. Select the paste-destination unit, and click Menu > Paste.

The parameters copied to the clipboard in step 1 will be pasted to the paste-destination unit.

- \* You can select multiple units in the M-48 List as the paste-destination.
- \* The time required for the paste operation will depend on the number of units you selected.

## Copying/pasting specific parameters between units

1. Select the copy-source unit, and click Menu > Copy.

All current parameters of the copy-source unit will be copied to the clipboard.

- \* If multiple units are selected in the M-48 List, the parameters will be copied from the unit you clicked last.
- 2. Select the paste-destination unit, and click Menu > Paste Special...



The Paste Special dialog box will appear.

- \* You can select multiple units in the M-48 List as the paste-destination.
- The time required for the paste operation will depend on the number of units you selected.
- 3. Add a check mark to the parameters that you want to paste.

Selection	Explanation
Source Lev/Pan	Paste the source level / pan settings.
Source Assign	Paste the source assign settings.
Preferences	Paste the preference settings.
Group Mix	Paste the group mix.

#### 4. Click the [Paste] button.

Of the parameters copied to the clip board in step 1, the parameters you selected in step 3 will be pasted to the paste-destination unit(s).

## MEMO

The unit name will be appended to the command; e.g., Copy "Drums."

## ?

The clipboard is a memory area provided within S-4000 RCS. You can copy the parameters of a unit to the clipboard, and paste the contents of the clipboard to another unit.

## MEMO

The unit name will be appended to the command; e.g., Copy "Drums."

## 7

The clipboard is a memory area provided within S-4000 RCS. You can copy the parameters of a unit to the clipboard, and paste the contents of the clipboard to another unit.

## Saving all data of one or more units (Saving multiple units in a single operation)

1. Select the desired unit(s), and click Menu > Save Selected...

C	estination		OK
Γ		Browse	Cancel
	Please specify the location where M-48 p should be saved.	project files	

The Save Selected dialog box will appear.

- 2. Click the [Browse...] button and specify the save-destination folder.
- 3. Click the [OK] button.

A message box will ask you to confirm the operation.

4. Click the [OK] button.

A message box indicating the progress of the save operation will appear. When the "Completed" indication appears, saving is complete.

- \* All data of the unit(s) selected in step 1 will be saved as individual M-48 project files.
- \* Each M-48 project file will be automatically given a name composed like this: "the number in the list" + "unit name" + file name extension (.m48pj).
- \* If an M-48 project file of the same file name exists in the location you specified in step 2, the old file will be overwritten by the new file.

## **Memory operations**

## Storing the memories of all units

This operation stores the current memories of all units in the M-48 List to the memory you specify (except for units whose MEMORY SAFE function is on).

1. From the [Store All] button, select the desired memory number.



The Memory Store dialog box will appear.

- 2. In the Name box, edit the memory name.
- 3. Click the [Store] button.

## **Recalling the memories of all units**

This operation recalls the memory you select to the current memories of all units in the M-48 list (except for units whose MEMORY SAFE function is on).

1. From the [Recall All] button, select the desired memory number.

#### MEMO

You can select multiple units in the M-48 List.

#### MEMO

It takes approximately 30 seconds to save the data of one unit. The length of time required for saving will depend on the number of units you selected in step 1.

#### MEMO

You can enter up to sixteen single-byte alphanumeric characters as the memory name.

## **Using the Engineer's Monitor function**

By designating an M-48 located beside the engineer as the Engineer's Monitor, he/she can monitor and control the mix of any musician's M-48 unit from the Engineer's Monitor.

## Specifying an Engineer's Monitor unit

1. Select a target unit on the M-48 List and drag it to the Engineer's Monitor

area 🙆 (p. 42).

A message box will ask you to confirm the operation.

2. Click the [OK] button.



The specified unit will be displayed on the Engineer's Monitor area.

- 3. To monitor a musician's mix, select the corresponding M-48 unit in the M-48 List.
- 4. You can also control the musician's group mix from the Engineer's Monitor.
- \* To control the musician's mix from the Engineer's Monitor, the Monitor-only check box on the Engineer's Monitor Option (p. 47) must be cleared.

The following knobs work independently on the engineer's side and musician's side. The positions of each knob on the musician's side are displayed on the M-48 Manager window:

- [AUX IN] knob
- [AMBIENT MIC] knob
- LINE OUT [VOLUME] knob
- [BASS] knob
- [TREBLE] knob
- [LIMITER] knob
- PHONES [VOLUME] knob



## Viewing version info for the Engineer's Monitor

1. Click the [info] button 🕕 on the Engineer's Monitor area.

Device Info		×
M-48 (Engineer)		ОК
System Version	1.010	
Panel Version	1.000	

The Device Info window shows the system program version and the panel program version of the unit specified as the Engineer's Monitor.

### MEMO

On the Engineer's Monitor, you cannot monitor the AUX IN or the AMBIENT MIC on the musician's side.

#### MEMO

You cannot use Engineer's Monitor function if system program version of the M-48 is prior to 1.01.

### MEMO

The solo function on the M-48 works independently on the musician's side and engineer's side. Therefore, solo operation on the engineer's side does not affect the musician's side.

## Editing the Engineer's Monitor preference settings

1. Click the [pref] button 🔯 on the Engineer's Monitor area.



The M-48 Preferences window will be opened. You can set the following items:

- Solo Mode
- LAYER select clears SOLO
- Line Out Mono
- Engineer's Monitor Option

By checking the Monitor-only check box on the Engineer's Monitor option, the Engineer's Monitor unit works only for audio monitoring, and it does not control the musician's mix.

## **Releasing the Engineer's Monitor**

#### 1. Drag the unit name shown in the Engineer's Monitor area to the M-48 List.

A message box will ask you to confirm the operation.

2. Click the [OK] button.

The Engineer's Monitor will be released.

## Note to use the Engineer's Monitor function

\* The Engineer's Monitor function is driven by the M-48 Manager window. Therefore, it will be disabled when you close the M-48 window.

#### MEMO

The Line out Source setting and the Low-pass Filter setting follows the setting of the musician's unit.

#### MEMO

MEMORY operation on the Engineer's Monitor is not allowed.

## **Operations in the M-48 edit panel**

## M-48 edit panel



ltem	Name	Function
0	[Menu] button	This is the menu for the M-48 edit panel.
2	[Memory] button	Opens the M-48 Memory window (p. 58).
3	Unit name	Indicates the number and name of the selected unit.
4	Memory	Indicates the number and name of the current memory.
5	Version	Indicates the version of the unit.System: Indicates the system program version.Panel: Indicates the panel program version.
6	[Mute] button	Turns muting on/off. Lit red when on.
7	[Safe] button	Turns the MEMORY SAFE function on/off. Lit green when on.
8	[Lev/Pan] button	Opens the M-48 Source Lev/Pan window (p. 50).
9	[Assign] button	Opens the M-48 Source Assign window (p. 52)
10	Group Mix	Adjusts the group mix (p. 56).

### <u>Menu</u>

Menu item	Function
Сору	Copies the unit's settings.
Paste	Pastes the copied settings.
Paste Special	Pastes the copied settings (and allows you to select the content that will be pasted).
Reset Group Mix	Resets the group mix (p. 57).
Library	Accesses the M-48 Library window (p. 60).
Save	Saves all data of the unit as an M-48 project file (p. 62).
Load	Loads an M-48 project file into the unit (p. 63).
Blink LEDs	Causes all of the unit's LEDs to blink. Use this to identify the selected unit.
Preferences	Accesses the M-48 Preferences window (p. 54).

## MEMO

The procedure for using Copy, Paste, and Paste Special is the same as for the M-48 List (p. 42). However, the copy destination is limited to the currently selected unit.

## **Operations using the keyboard**

Кеу	Operation
[←]/[→]	Selects a [Control] knob
[ ↑ ]/[ ↓ ]	Increase or decrease the value of the [Control] knob
[enter]	Edits the group name
[V]	Opens the M-48 Source Lev/Pan window (p. 50).
[A]	Opens the M-48 Source Assign window (p. 52)
[M]	Opens the M-48 Memory window (p. 58).
[ctrl] + [B]	Turn on/off the Blink LEDs function (p. 49).

## Editing the group name

1. Double-click the group name in the Group Mix area.

The group name will become editable.

## Blinking the unit's LEDs

1. Click Menu > Blink LEDs to add a check mark.

All LEDs of the unit will blink. The [Clear Blink] button will appear in the lower right of the M-48 edit panel.

#### Clear Blink

- 2. To stop the LEDs from blinking, click the [Clear Blink] button.
- \* The LED blinking will also be cleared when a button on the M-48 itself is operated.
- You can also clear the LED blinking by clicking Menu > Blink LEDs to clear the check mark.

## Editing when the serial port is not connected (Editing a virtual unit)

If no serial port is selected in the serial port selection box (p. 13) of the S-4000 RCS window, the M-48 edit panel will show a unit named "Virtual."



The following operations cannot be performed for a "Virtual" unit.

- Edit the unit name "Virtual"
- Store or recall M-48 memories
- Use the MEMORY SAFE function or make output mute settings
- Save or load M-48 project files

When you select a serial port in the serial port selection box of the S-4000 RCS window, the "Virtual" unit will no longer be displayed. If you store the settings of the "Virtual" unit to the M-48 library (p. 60) before you select a serial port, you will be able to recall (p. 61) those settings for a real unit.

### MEMO

You can enter up to six singlebyte alphanumeric characters as the group name.

## HINT

This is a convenient way to verify which unit is selected.

## Setting the source's LEVEL, PAN, and AUX switch (Source level/ pan settings)

## M-48 Source Lev/Pan window



Item	Name	Function
0	[CLIP] button	Click this to clear the clip indicators and peak hold indicators. This button will light red if a level meter clip indicator is lit.
2	Level meters	Indicate the pre-fader levels of the sources.
3	[Reset] button	Resets the source level/pan settings.
	Source number	Indicates the Digital Snake's channel number, corresponding to sources 1–40.
4		Brown background :Indicates an input of the REAC master device. Purple background :Indicates an input of a REAC slave device.
5	AUX switch	Turns the send to the AUX bus on/off. Lit orange when on.
6	PAN knob	Sets the panning of the source.
0	Group select box	Selects the group to which the source is assigned.
8	Fader	Adjusts the level of the source.
9	Source level meter	Indicates the pre-fader level of the source.
10	Source name	Indicates the name of the channel within the Digital Snake system.

## Opening the M-48 Source Lev/Pan window

1. In the M-48 edit panel, click the [Lev/Pan] button.

The M-48 Source Lev/Pan window will open.

## MEMO

To close the window, click the close button in the title bar.

## Editing the source level / pan settings

- 1. Open the M-48 Source Lev/Pan window.
- 2. Click the AUX switch to turn it on/off.

If you turn on the AUX switch, the post-fader, post-pan signal will be sent to the AUX bus.

#### 3. Adjust the PAN setting.

You can adjust this in a range of L63-C-R63.

\* To reset the knob to C (center), hold down [Ctrl] and click the PAN knob.

#### 4. Adjust the LEVEL.

You can adjust this in a range of -Inf dB- +10.0 dB.

\* To reset the LEVEL to 0.0 dB, hold down [Ctrl] and click the fader.

#### 5. Use the group select box to assign the source to a group.

Selection	Function
(Not Assign) or	The source is not assigned to any group. The display differs depending on
(MAIN)	the Mix Option (p. 52) setup.
1–16	The source is assigned to the group of the selected number.

## **Operations using the keyboard**

Кеу	Operation	
[←]/[→]	Selects a source	
[shift] + [←] / [→]	Selects a source (in 8-channel steps)	
[ + ]/[ + ]	Raises or lowers the LEVEL	

## Resetting the source level / pan settings

#### 1. Open the M-48 Source Lev/Pan window.

2. Click the [Reset] button.

A message box will ask you to confirm the operation.

#### 3. Click the [OK] button.

The parameters of each source will be reset to the following values.

Parameter	value
AUX switch	ON
PAN	C
LEVEL	-Inf dB

#### B

For an example of source level / pan settings, refer to "Example setups" (p. 64)

## MEMO

To output the AUX bus signal, use the preference settings (p. 54) to select "Aux bus" as the line out source.

### MEMO

If you select "Not Assign" in the group select box, this source will not be operable from the panel of the M-48 itself. If you don't want this source to be output, you'll need to turn down the LEVEL to -Inf dB.

### ß

Assignments of sources to groups can also be made using the source assign settings (p. 52).

### B

This operation will not reset the group selections. Use M-48 Source Assign window (p. 52) to reset the group selections.

## Assigning sources to groups (Source assign settings)

## M-48 Source Assign window

Drums - M-48	Source	Assign		6				0
Source 11 EG	Group	TRs		Mix (	Option only assign	ned source	s	Clear
Crown				Group	1-16	ot		<u>^</u>
aroup	9	10	11	12	13	14	15	16
Source	Kick	Snare	HH	Toms	ОН	Bass	GTRs	Keys
з нн			×			_	1	
4 Tom1				×				
5 Tom2				×				
6 Tom3				×				
7 OHL					×			
8 OHR					×			
9 Bass						×		
				· · · · · · · · · · · · · · · · · · ·			X	-
11 EG							×	· · · · · ·
12 KeyL								
13 Key R 14 Cho 1								~
15 Cho 2								
16 Lead Vo								
1 MATN I								
2 MAIN R								
4								F

ltem	Name	Function	
•	Current	Indicates the group to which the source at the cursor location is	
	assignment	currently assigned.	
0	Mix Option	This sets the M-48's mix option. By checking the "Mix only assigned sources" check box, only sources assigned to a group will be mixed.	
3	[Clear] button	Clears the source assign settings.	
	Source list	Shows the Digital Snake channel numbers and channel names	
		corresponding to sources 1–40.	
4		Brown background : Indicates an input of the REAC master device.	
		Purple background : Indicates an input of a REAC slave device.	
5	Group list	Shows the number and name of each group.	
6	Assignment grid	An icon 🗙 is shown at the intersection of a currently assigned	
	Assignment gru	source and group.	

## **Opening the M-48 Source Assign window**

#### 1. In the M-48 edit panel, click the [Assign] button.

The M-48 Source Assign window will open.

## MEMO

You cannot check the "Mix only assigned sources" check box if system program version of the M-48 is prior to 1.01.

## MEMO

To close the window, click the close button in the title bar.

## Making source assignments

- 1. Open the M-48 Source Assign window.
- 2. Click the location where the desired source and group intersect.

An icon 🗙 will appear.

- \* To cancel an assignment, click the corresponding assignment symbol.
- \* A source can be assigned only to one group. You cannot assign a source to multiple groups.

## **Operations using the keyboard**

Кеу	Operation
[+]/[+]	Selects a group
[shift] + [ ← ] / [ → ]	Selects a group (in 8-group steps)
[ + ]/[ + ]	Selects a source
[shift] + [ ↑ ] / [ ↓ ]	Selects a source (in 10-channel steps)

If the "Mix only assigned sources" on the Mix Option 2 is not checked, a source that is not assigned to any group will also be mixed to the M-48's MAIN buses, and that source cannot be controlled from the M-48's panel.

In some cases you may want to include a source without being able to control it from the M-48's panel:

#### 1. For talkback communication

The mixing engineer can have talkback as one of the sources, leaving the source level up but not assigned to a particular group (knob). This way the talkback signal is not controlled by any of the M-48 knobs yet still can be heard by the musician.

#### 2. To provide simple control

E.g., The mixing engineer can provide just vocal control for a vocalist via source assignment. All other sources are not assigned to any groups (knobs) and can be provided as a fixed mix. The vocalist just adjusts the volume of their voice alone.

## Clearing the source assign settings

- 1. Open the M-48 Source Assign window
- 2. Click the [Clear] button.

A message box will ask you to confirm the operation.

3. Click the [OK] button.

The group assignments of all sources will be cleared.

#### B

For an example of source assign settings, refer to "Example setups" (p. 64)

## Editing the preference settings

## **M-48 Preferences window**

rums - M-48 Preferences 🛛 🔀		
1 Solo	2 I	_ine out
Mode	Source	Low-pass Filter
💿 Add On	💿 Main bus	off
🔵 Last	Aux bus	🔵 80Hz
	Phones	🔵 120Hz
LAYER select clears SOLO	Mono	
3 Memory		
Disable RECALL button		(5) (4)
Disable STORE button		OK Reset

ltem	Name		Function
	Mode	Selects the solo mode.	
0	Solo	LAYER select clears SOLO	When the layer is switched on the M-48 itself, the solo settings of the now-hidden layer will be cleared automatically.
		Source	SourceSelects the source for the line out.
2 Line Out	Low-pass Filter	Specifies the low-pass filter setting for the line out.	
		Mono	Turns the mono switch on/off.
	Momony	Disable RECALL button	Disables the M-48's [RECALL] button.
	Merriory	Disable STORE button	Disables the M-48's [STORE] button.
4 [Reset] button		on	Resets the preference settings.
5	5 [OK] button		Closes the M-48 Preferences window.

## **Opening the M-48 Preferences window**

1. In the M-48 edit panel, click Menu > Preferences...

The M-48 Preferences window will open.

## Editing the preference settings

- 1. Open the M-48 Preferences window.
- 2. Specify the Solo setting.
- Mode

Select the solo mode.

Selection	Explanation
Add On	Solo can be turned on for multiple groups. The soloed groups will be mixed for monitoring.

#### MEMO

To close the window, click the [OK] button.

Selection	Explanation
Last	Only the group whose solo setting was last turned on will be monitored.

• LAYER select clears SOLO

If this is checked, the solo settings of the now-hidden layer will be cleared automatically when the layer is switched.

#### 3. Make settings for Line Out.

• Source

Select the source for line out.

Selection	Explanation
Main bus	Output the Main bus signal.
Aux bus	Output the Aux bus signal (the mixed sources whose AUX switch is turned on in the source level/pan settings).
Phones	Output the signal going to the PHONES. This includes ambient mic.

Low-pass Filter

Select the low-pass filter setting for the line out.

Selection	Explanation
Off	The low-pass filter will not be used.
80Hz	The frequency range below 80 Hz will be passed.
120Hz	The frequency range below 120 Hz will be passed.

\* When switching the low-pass filter setting from 80Hz/120Hz to Off, take care that excessive strain is not applied to your hearing or to the equipment connected to line out.

• Mono

If this is checked, a monaural mix will be output from line out.

- 4. Make Memory settings.
- Disable RECALL button

If this is checked, the M-48's [RECALL] button will be disabled.

• Disable STORE button

If this is checked, the M-48's [STORE] button will be disabled.

## **Resetting the preference settings**

- 1. Open the M-48 Preferences window.
- 2. Click the [Reset] button.

A message box will ask you to confirm the operation.

#### 3. Click the [OK] button.

The preference settings will be reset to the following values.

Parameter		value
Sala	Mode	Add On
2010	LAYER select clears SOLO	No
	Source	No
Line Out	Low-pass Filter	No
	Mono	Main bus
Mamoni	Disable RECALL button	Off
Merriory	Disable STORE button	Off

#### MEMO

The low-pass filter is a 12 dB/ octave filter that passes only the frequency range lower than the specified frequency.

## Viewing and editing a musician's mix (Group mix)

The M-48 edit panel's Group Mix area is used to view and edit the group mix.



## Viewing and editing the group mix

- 1. Click a button in the layer selection section **1** to select a layer.
- Click a button in the control selection section (2) to select the parameter that will be shown for the [Control] knobs (3).
- 3. Use the [Control] knobs **3** to edit the parameters of the group.
- \* By clicking a [Control] knob while holding down [Ctrl], parameters can be reset individually. For the reset value, refer to the table in "Resetting the group mix" (p. 57).
- 4. Use the [SOLO] buttons **4** to turn solo on/off for each group.

If solo is on, the [Solo Clear] button will be shown.

#### Solo Clear

By clicking this you can clear solo for all groups.

#### 5. Use the [REVERB] button **5** to turn reverb on/off.

- \* The following buttons and knobs cannot be operated from Group Mix.
  - [RECALL] button
  - [STORE] button
  - [AUX IN] knob
  - [AMBIENT MIC] knob
  - LINE OUT [VOLUME] knob
  - [BASS] knob
  - [TREBLE] knob
  - [LIMITER] knob
  - PHONES[VOLUME] knob

#### B

The procedure for Group Mix operations is the same as when operating the panel of the M-48 itself. For details, refer to "M-48 Owner's Manual."

#### MEMO

The VOLUME adjustment is relative to the LEVEL specified in the source level/pan settings. In some cases, the source's LEVEL may reach the maximum or minimum value before the VOLUME reaches its maximum or minimum value.

### MEMO

The PAN adjustment is relative to the PAN specified in the source level/pan adjustment. In some cases, the source's PAN may reach the maximum or minimum value before this PAN adjustment reaches its maximum or minimum value.

## **Operations using the keyboard**

Кеу	Operation
[←]/[→]	Selects a [Control] knob
[ + ]/[ + ]	Increases or decrease the value of the [Control] knob
[enter]	Edits the group name

## Editing a group name

1. Double-click the group name **6** in Group Mix.

The group name will be editable.

## **Resetting the group mix**

#### 1. In the M-48 edit panel, click Menu > Reset Group Mix.

A message box will ask you to confirm the operation.

#### 2. Click the [OK] button.

The parameters of each group will be reset to the following values.

Parameter	value
VOLUME	0.0 dB
PAN	C
REVERB SEND	-Inf dB
HI GAIN	0.0 dB
MID GAIN	0.0 dB
MID FREQ	1.00 kHz
LO GAIN	0.0 dB
SOLO	Off

## MEMO

You can enter up to six singlebyte alphanumeric characters as the group name.

## **Unit memory operations**

## M-48 Memory window



ltem	Name		Function	
0		No.	Indicates the memory number.	
	Memory list	Name	Indicates the memory name. Double-click this to edit the memory name.	
2	[Recall] button		Recalls settings from the selected memory number.	
3	[Store] button		Stores settings to the selected memory number.	
4	[Clear] button		Clears the contents of the selected memory.	

## **Opening the M-48 Memory window**

1. In the unit editing pane, press the [Memory] button.

The M-48 Memory window will open.

## Storing a memory

- 1. Open the M-48 Memory window.
- 2. In the memory list, select the store-destination memory.
- 3. Click the [Store] button.

lemory	Store		<b>&gt;</b>
No.	Name		
01	MEMORY 01	Store	Cancer

The Memory Store dialog box will open.

- 4. In the Name box, edit the memory name.
- 5. Click the [Store] button.

The current memory of the unit will be stored to the memory you selected in step 1.

MEMO

The current memory is shown in green.

#### MEMO

To close the window, click the close button in the title bar.

### MEMO

You can also use the [S] key on the keyboard to open the Memory Store dialog box.

#### MEMO

You can enter up to sixteen single-byte alphanumeric characters as the memory name.

## **Recalling a memory**

- 1. Open the M-48 Memory window.
- 2. In the memory list, select the desired memory.
- 3. Click the [Recall] button.

The memory you selected in step 2 will be recalled to the current memory of the unit.

## **Editing the memory name**

- 1. Open the M-48 Memory window.
- 2. In the memory list, double-click the Name field of the desired memory. The memory name will be editable.

## Clearing the contents of a memory

- 1. Open the M-48 Memory window.
- 2. In the memory list, select the desired memory.
- 3. Click the [Clear] button.

A message box will ask you to confirm the operation.

4. Click the [OK] button.

The contents of the memory you selected in step 3 will be cleared to the default state.

MEMO

You can enter up to sixteen single-byte alphanumeric characters as the memory name.

## MEMO

You can also clear the contents of the selected memory by pressing the [Delete] key of your computer.



## Storing to the library

- 1. Open the M-48 Library window.
- 2. In the library list, select the store-destination library number.
- 3. Click the [Store] button.



The Library Store dialog box will appear.

- 4. In the Name box, edit the name.
- 5. Click the [Store] button.

The unit's current settings will be stored to the library number you selected in step 2.

To close the window, click the close button in the title bar.

#### MEMO

You can enter a name consisting of up to sixteen single-byte alphanumeric characters as the name of a library item.

## **Recalling from the library**

- 1. Open the M-48 Library window.
- 2. In the library list, select the library item that you want to recall.
- 3. In the Recall Parameters selection boxes, add a check mark to the parameters that you want to recall.

Selection	Explanation
Source Lev/Pan	Source level / pan settings will be recalled.
Source Assign	source assign settings will be recalled.
Preferences	Preference settings will be recalled.
Group Mix	Group mix settings will be recalled.

## 4. Click the [Recall] button.

The settings of the library item you selected in step 2 will be recalled to the current settings of the unit.

## Editing the name of a library item

- 1. Open the M-48 Library window.
- 2. In the library list, double-click the Name field of the desired library item.

The name of the library item will become editable.

## **Clearing a library item**

- 1. Open the M-48 Library window.
- 2. In the library list, select the desired library item.
- 3. Click the [Clear] button.

A message box will ask you to confirm the operation.

4. Click the [OK] button.

The data will be cleared from the library item you selected in step 1.

## MEMO

You can enter a name consisting of up to sixteen single-byte alphanumeric characters as the name of a library item.

## MEMO

You can also clear the selected library item by pressing the [Delete] key of your computer.

# Saving or loading the data of a unit (Saving or loading an M-48 project file)

## Saving an M-48 project file

1. In the M-48 edit panel, click Menu > Save...



The "Save As" dialog box will open.

2. Specify a folder and file name for saving the M-48 project file.

### 3. Click the [Save] button.

A message box will ask you to confirm the operation.

4. Click the [OK] button.

A message box will indicate the status of saving. When saving is finished, the indication "Completed" will appear.

## MEMO

It takes approximately 30 seconds to save the data for one unit.

## Loading an M-48 project file

1. In the M-48 edit panel, click Menu > Load...



The "Open" dialog box will appear.

#### 2. Select the desired M-48 project file.

#### 3. Click the [Open] button.

A message box will ask you to confirm the operation.

#### 4. Click the [OK] button.

A message box will indicate the status of loading. When loading is finished, the indication "Completed" will appear.

### MEMO

If the Load Option "Load UNIT NAME" box is checked, the unit name will also be loaded.

## MEMO

It takes approximately 30 seconds to load the data for one unit.

## **Example setup for Drummer**

Source level/pan settings So				Source assign settings		
	Source	Level	Pan			
1	Kick	O	$\bigcirc$	k		
2	Snare	O	$\bigcirc$			
3	Hi Hat		$\bigcirc$			
4	Tom1		$\bigcirc$			
5	Tom2	O	$\bigcirc$			
6	Tom3	O	$\bigcirc$			
7	Ride	O	$\odot$	$h \setminus \setminus \setminus \setminus \setminus$		
8	Crash	O	0	P / / / / / / / / / / / / / / / / / / /		
9	Overhead L	O	$\odot$	$h \setminus \setminus \setminus \setminus \setminus \setminus $		
10	Overhead R	O	0		Gro	ups for the drummer
11	Bass	O	$\bigcirc$	$\langle \rangle / / / / / / / / / / / / / / / / / / $	1	Kick
12	Click	O	$\bigcirc$		2	Snare
13	E.Guitar1 L	O	$\odot$		3	Hi Hat
14	E.Guitar1 R	O	$\bigcirc$		4	Tom1
15	E.Guitar2 L	O	$\odot$		5	Tom2
16	E.Guitar2 R	O	0		6	Tom3
17	A.Guitar L	O	$\odot$		7	Cymbals
18	A.Guitar R	O	0		8	Overhead
19	Keys L	O	$\odot$		9	Bass
20	Keys R	O	0		10	Guitars
21	Piano L	O	$\odot$		11	Kevs
22	Piano R	O	$\bigcirc$		12	Lead Vocal
23	Lead Vocal	O	$\bigcirc$		13	Back Vocal
24	Back Vocal1	O	$\bigcirc$		14	Ambients
25	Back Vocal2	O	$\bigcirc$		15	House/Main
26	Back Vocal3	O	$\bigcirc$		16	Click
27	Choir1	O	$\Theta$	h / '		
28	Choir2	O	$\bigcirc$			
29	Choir3	O	Θ			
30	Ambient Mic1	O	$\odot$	]  /		
31	Ambient Mic2	O	$\bigcirc$	μ /		
32	Talkback		$\bigcirc$	h /		
33	Main Output L	O	$\odot$			
34	Main Output R	0	$\bigcirc$			
35						
36				]		
37				]		
38				]		
39						
40						

\* Level/pan settings shown are approximate.

## Example setup for lead vocalist

Source level/pan settings				Source assign settings		
	Source	Level	Pan		1 1 1	
1	Kick	0_	$\bigcirc$			
2	Snare	O	$\bigcirc$			
3	Hi Hat	O	$\bigcirc$		1	
4	Tom1	O	Ð	14///	1 1 1	
5	Tom2	O	$\bigcirc$	1   / / / /	1	
6	Tom3	O	Θ	]  \\\	, , , ,	
7	Ride	O	$\odot$	1 \\\		
8	Crash	O	$\bigcirc$	] \ \\\		
9	Overhead L	O	$\odot$	1 \ \\\		
10	Overhead R	O	$\bigcirc$	/// Y	Grou	ps for the lead vocalist
11	Bass	O	$\bigcirc$		1	Me (Lead Vocal)
12	Click	0	$\bigcirc$		2	Back Vocal1
13	E.Guitar1 L	O	$\odot$		3	Back Vocal2
14	E.Guitar1 R	O	$\bigcirc$		4	Back Vocal3
15	E.Guitar2 L	O	$\odot$		5	Choir
16	E.Guitar2 R	O	$\bigcirc$		6	Bass
17	A.Guitar L	O	$\odot$		7	E Guitars
18	A.Guitar R	O	0		8	A Guitar
19	Keys L	O	$\odot$		9	Kick
20	Keys R	O	$\bigcirc$		10	Snare
21	Piano L	O	$\odot$		11	Hi Hat
22	Piano R	O	$\bigcirc$		12	Drums
23	Lead Vocal	O	$\bigcirc$		13	Kevs
24	Back Vocal1	O	$\bigcirc$		14	Ambient
25	Back Vocal2	O	$\bigcirc$		15	House/Main etc.
26	Back Vocal3	O	$\bigcirc$		16	Talk back
27	Choir1	O	Ð	h/ ///	10	Turk buck
28	Choir2	O	$\bigcirc$			
29	Choir3	O	Θ			
30	Ambient Mic1	O	$\odot$	h///		
31	Ambient Mic2	O	$\bigcirc$			
32	Talk back	O	$\bigcirc$			
33	Main Output L	O	$\odot$	h		
34	Main Output R	O	$\bigcirc$	1		
35						
36				1		
37				1		
38				1		
39				1		
40				1		

\* Level/pan settings shown are approximate.

## **Example setup for backing vocalists**



\* Level/pan settings shown are approximate.

# Appendix

\* For information on how to take corrective action in the event of an error, refer to the "Troubleshooting" section of the owner's manual for the respective Digital Snake system.

Messages	Problems		
REAC backup.	REAC communication has switched from the Main to the Backup cable.		
Master Fan Error.	Cooling fan of REAC master device has stopped.		
Slave Fan Error.	Cooling fan of REAC slave device has stopped.		
Master Temperature Error.	An abnormal temperature increase has been detected in the REAC master device.		
Slave Temperature Error.	An abnormal temperature increase has been detected in the REAC slave device.		
Master Slot Error.	Modules in the REAC master device are not configured properly.		
REAC packet Error.	A REAC protocol transfer error has been detected.		
All Mute.	All outputs from the system have been muted.		
Host Link Down.	Serial communication via RS-232C is terminated.		
REAC Link Down.	REAC transfer is terminated.		