

# XS-82H XS-83H XS-84H

**MULTI-FORMAT MATRIX SWITCHER**

## About Compatibility

- In version 2.00 and after, using setting values saved with version 1.xx is possible.
- Settings saved with version 2.00 or later cannot be used by XS-80H series units at version 1.xx. When downgrading from version 2.00 or later to version 1.xx is unavoidably necessary, all settings are initialized at startup.

## Functions Added in Ver. 2.0/Ver. 3.0

The following functions have been added. To ensure a thorough understanding of the newly added features, when using the unit, please read this booklet together with the Owner's Manual.

### Ver.2.0

- Video output modes were added. (DISSOLVE, PGM-PST) ..... 2
- Displaying a guide on an output screen is now possible. .... 7
- A function for displaying or hiding windows during MULTI mode output has been added. .... 7
- The output picture is no longer interrupted during switching of the output mode. .... 8
- It is now possible to set the number of audio channels output via HDMI. .... 9
- The key lock mode now covers additional buttons. .... 8
- The audio send level can now be set separately for each output channel. .... 8
- Video-system resolutions have been added for EDID. (Video resolutions) ..... 15

### Ver.3.0

- Video output modes were added. (DUAL DISSOLVE, 2 x PGM-PST, 3 x PGM-PST, DUAL PGM-PST) ..... 2
- A location either inside or outside the video is now selectable as the place where the guide is displayed. .... 7
- A bezel compensation function was added. .... 9
- Support was added for the XS-80H RCS computer program. .... 10
- A panel-operation function was added. .... 10
- Still-image capture has been made possible. .... 13
- An output freeze function was added. .... 13
- Turning the power to projectors on and off using RS-232C or HDBaseT has been made possible. .... 14
- VIDEO INPUT/VIDEO OUTPUT menu ZOOM values have been changed to steps of 0.1%. .... 15
- Video-system resolutions have been added for EDID. (1280 x 800) ..... 15
- Output resolutions were added. (1280 x 800) ..... 15
- SUBNET MASK was added to the LAN settings. .... 15

**Video output modes were added.** **Ver.2.0** **Ver.3.0**

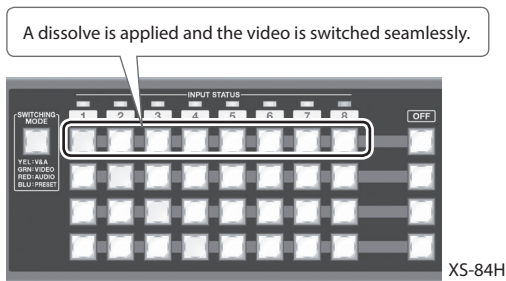
The following output modes have been added, increasing the variety of switching available.

Output mode	Page	Version
DISSOLVE mode	p. 2	Ver.2.0
DUAL DISSOLVE mode	p. 2	Ver.3.0
PGM-PST mode	p. 3	Ver.2.0
2 x PGM-PST mode	p. 4	Ver.3.0
3 x PGM-PST mode	p. 5	Ver.3.0
DUAL PGM-PST mode	p. 6	Ver.3.0

\* Refer also to "Switching the Video Output Mode" (p. 22) in the Owner's Manual for the unit.

**DISSOLVE Mode ([MENU] Button → "MODE" → "DISSOLVE-1") XS-82H / XS-83H / XS-84H Ver.2.0**

You can seamlessly switch OUTPUT1 video with a dissolve. Operation and output are identical for OUTPUT1 and OUTPUT4. The audio is switched with a crossfade at this time.

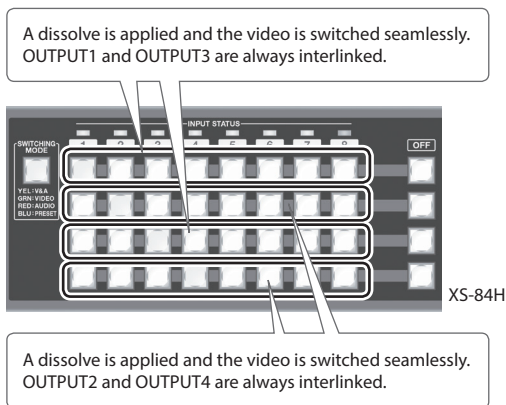


**MEMO**

- In the OUTPUT2 and 3 rows, quasi-seamless switching occurs.
- On the XS-84H, cross points are switched in an interlinked fashion for OUTPUT1 and OUTPUT4, and the same video is output via both.
- To set the time (duration) for applying the video transition, use the [MENU] button → "TRANSITION" → "TIME." Setting "TIME" to "0.0 sec" produces a cut transition with no blackness interposed.

**DUAL DISSOLVE Mode ([MENU] Button → "MODE" → "DUAL DISSOLVE") XS-82H / XS-83H / XS-84H Ver.3.0**

You can seamlessly switch OUTPUT1 and OUTPUT2 video with a dissolve. Operation and output are identical for OUTPUT1 and OUTPUT3, and for OUTPUT2 and OUTPUT4. The audio is switched with a crossfade at this time.

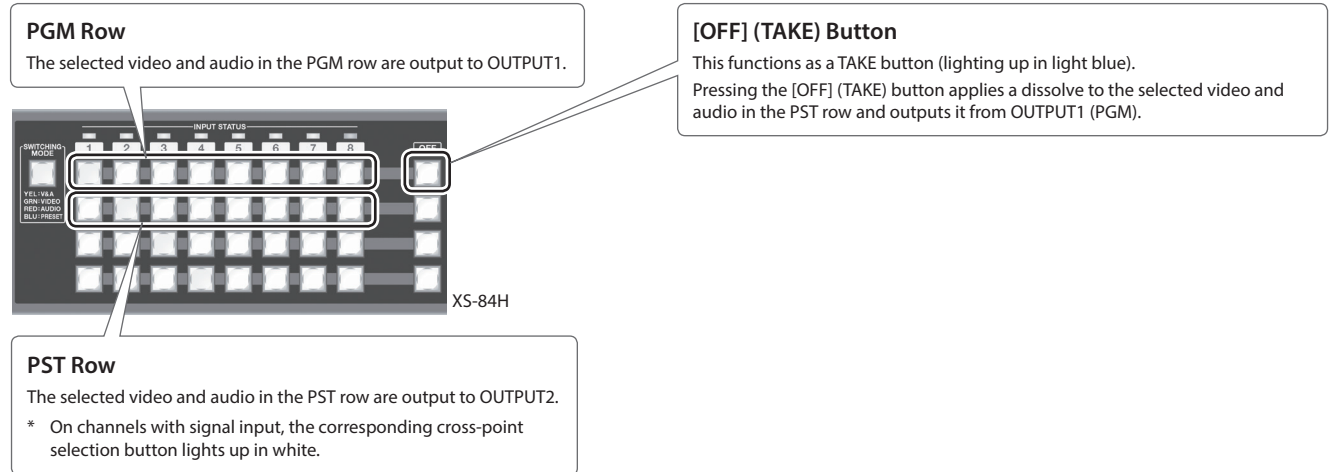


**MEMO**

- The length of time taken by a video transition is shared by all rows. You set this using the [MENU] button → "TRANSITION" → "TIME." Setting "TIME" to "0.0 sec" produces a cut transition with no blackness interposed.
- In the DUAL DISSOLVE mode, the "RESOLUTION" setting up through OUTPUT2 and 4 is the same as for OUTPUT1.
- When you want to switch OUTPUT1 through 4 simultaneously, select the [MENU] button → "PANEL OPERATION" → set "TRANS OPERATION" to "DOUBLE PRESS" (p. 10).

**PGM-PST Mode ([MENU] Button → "MODE" → "PGM-PST") XS-82H / XS-83H / XS-84H Ver.2.0**

You can seamlessly switch OUTPUT1 video with a dissolve while monitoring the video to switch to next (PST).  
 This function is useful for allowing on-site operators at live events and the like to monitor the video when switching.  
 OUTPUT1 is the final output (PGM), and OUTPUT2 is the video to send next (PST).  
 To perform the operation switching PST to PGM (TAKE), you use the [OFF] button for the OUTPUT1.  
 The audio is switched with a crossfade at this time.


**MEMO**

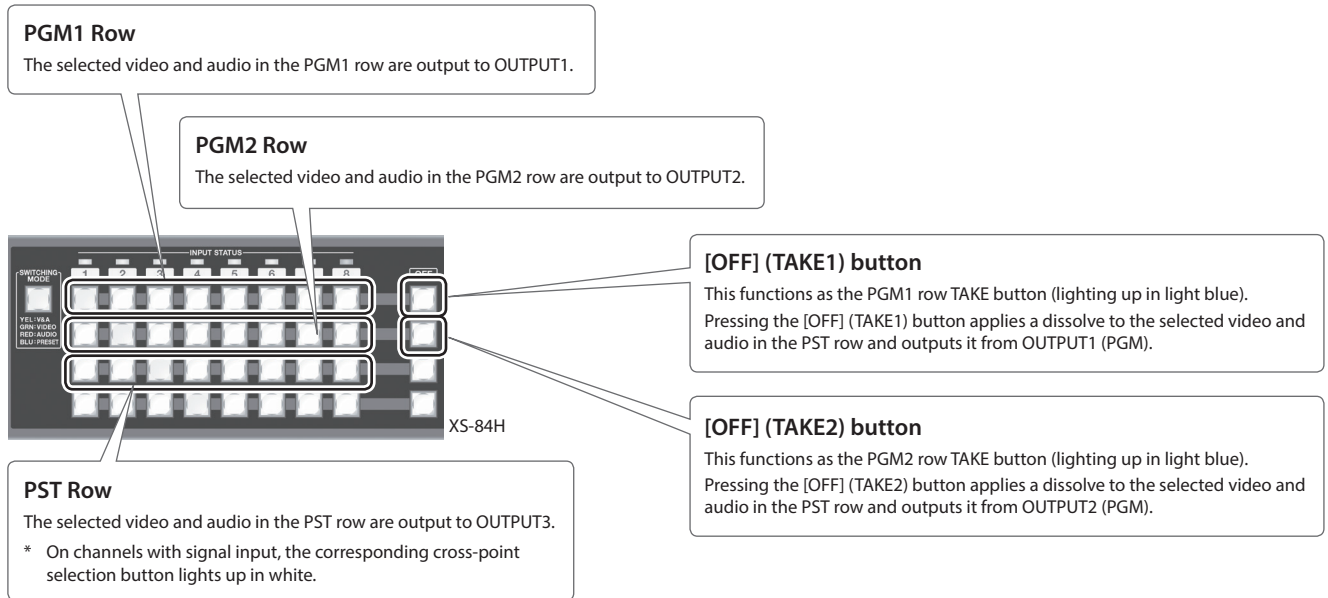
- Using the cross-point selection buttons to make the selection directly at the PGM row produces a cut transition with no blackness interposed.
- To set the time (duration) for applying the video transition, use the [MENU] button → "TRANSITION" → "TIME."
- On the XS-83H and XS-84H, the OUTPUT3 and 4 rows are switched in a quasi-seamless fashion.
- Video and audio can be output separately depending on selection of the [SWITCHING MODE] button.
- When in the PGM-PST mode, holding down the [EXIT] button and pressing an [OFF] button performs the operation of a regular [OFF] button.
- If you want to turn off the flip function that makes the PGM and PST rows change places, select the [MENU] button → "PANEL OPERATION" → "set"PGM-PST FLIP" to "OFF."

2 x PGM-PST Mode ([MENU] Button → "MODE" → "3 x PGM-PST") **XS-83H / XS-84H** **Ver.3.0**

You can seamlessly switch OUTPUT1 and OUTPUT2 video with a dissolve while monitoring the video to switch to next (PST). Because PST is shared, you can use this to send video with two outputs switched in succession.

OUTPUT1 and OUTPUT2 are the final output (PGM), and OUTPUT3 is the video to send next (PST). To perform the operation switching PST to PGM (TAKE), you use the [OFF] buttons for the respective OUTPUTS.

The audio is switched with a crossfade at this time.



**MEMO**

- The 2 x PGM-PST mode cannot be used on the XS-82H.
- The respective [OFF] (TAKE) buttons cannot be operated simultaneously.
- In the 2 x PGM-PST mode, the "RESOLUTION" setting up through OUTPUT2 and 3 is the same as for OUTPUT1.
- Using the cross-point selection buttons to make the selection directly at the PGM row produces a cut transition with no blackness interposed.
- The length of time taken by a video transition is shared by all rows. You set this using the [MENU] button → "TRANSITION" → "TIME."
- On the XS-84H, the OUTPUT4 row are switched in a quasi-seamless fashion.
- Video and audio can be output separately depending on selection of the [SWITCHING MODE] button.
- When in the 2 x PGM-PST mode, holding down the [EXIT] button and pressing an [OFF] button performs the operation of a regular [OFF] button.
- If you want to turn off the flip function that makes the PGM and PST rows change places, select the [MENU] button → "PANEL OPERATION" → "set "PGM-PST FLIP" to "OFF."

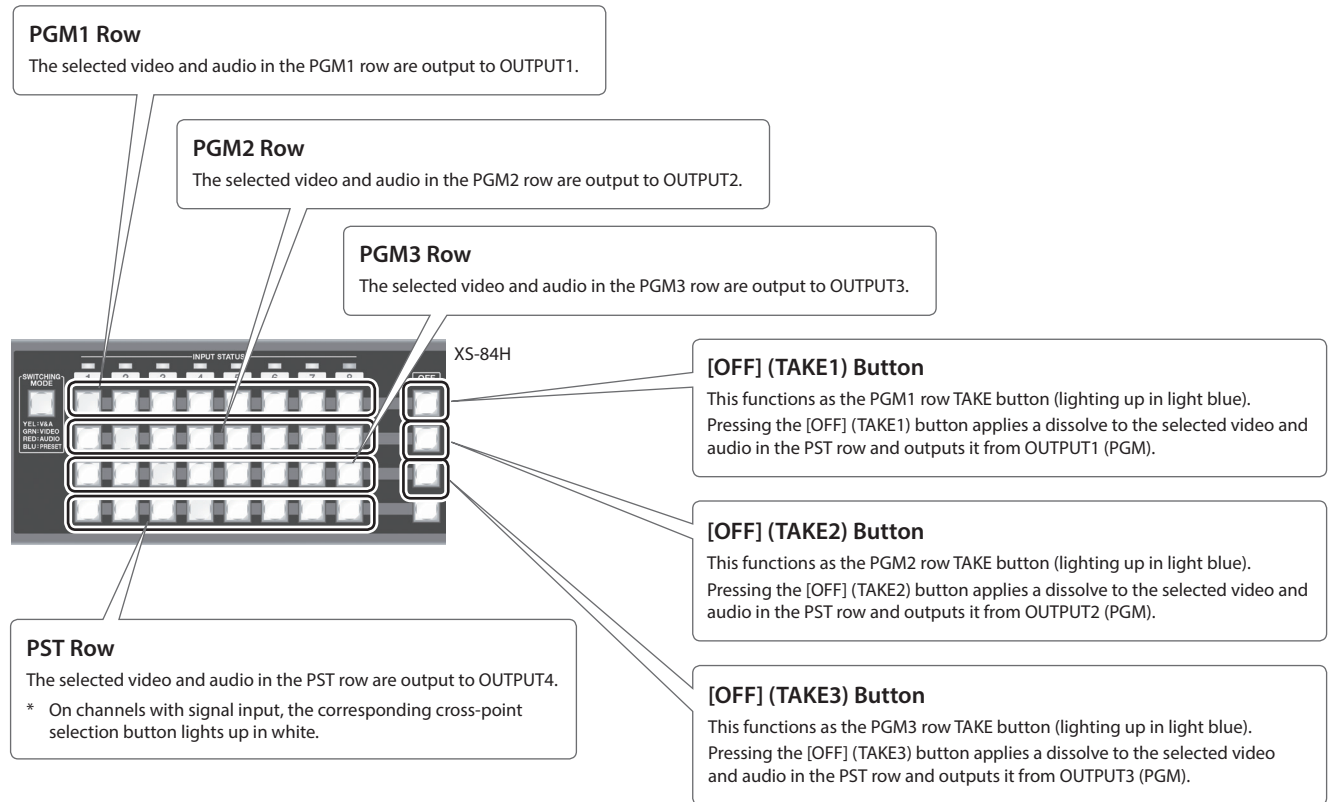
**3 x PGM-PST Mode** ([MENU] Button → “MODE” → “3 x PGM-PST”) **XS-84H** **Ver.3.0**

You can seamlessly switch OUTPUT1 through 3 video with a dissolve while monitoring the video to switch to next (PST).

Because PST is shared, you can use this to send video with three outputs switched in succession.

OUTPUT1 through 3 are the final output (PGM), and OUTPUT4 is the video to send next (PST). To perform the operation switching PST to PGM (TAKE), you use the [OFF] buttons for the respective OUTPUTS.

The audio is switched with a crossfade at this time.



**MEMO**

- The 3 x PGM-PST mode cannot be used on the XS-82H and XS-83H.
- The respective [OFF] (TAKE) buttons cannot be operated simultaneously.
- In the 3 x PGM-PST mode, the “RESOLUTION” setting up through OUTPUT2 and 4 is the same as for OUTPUT1.
- Using the cross-point selection buttons to make the selection directly at the PGM row produces a cut transition with no blackness interposed.
- The length of time taken by a video transition is shared by all rows. You set this using the [MENU] button → “TRANSITION” → “TIME.”
- Video and audio can be output separately depending on selection of the [SWITCHING MODE] button.
- When in the 3 x PGM-PST mode, holding down the [EXIT] button and pressing an [OFF] button performs the operation of a regular [OFF] button.
- If you want to turn off the flip function that makes the PGM and PST rows change places, select the [MENU] button → “PANEL OPERATION” → “set “PGM-PST FLIP” to “OFF.”

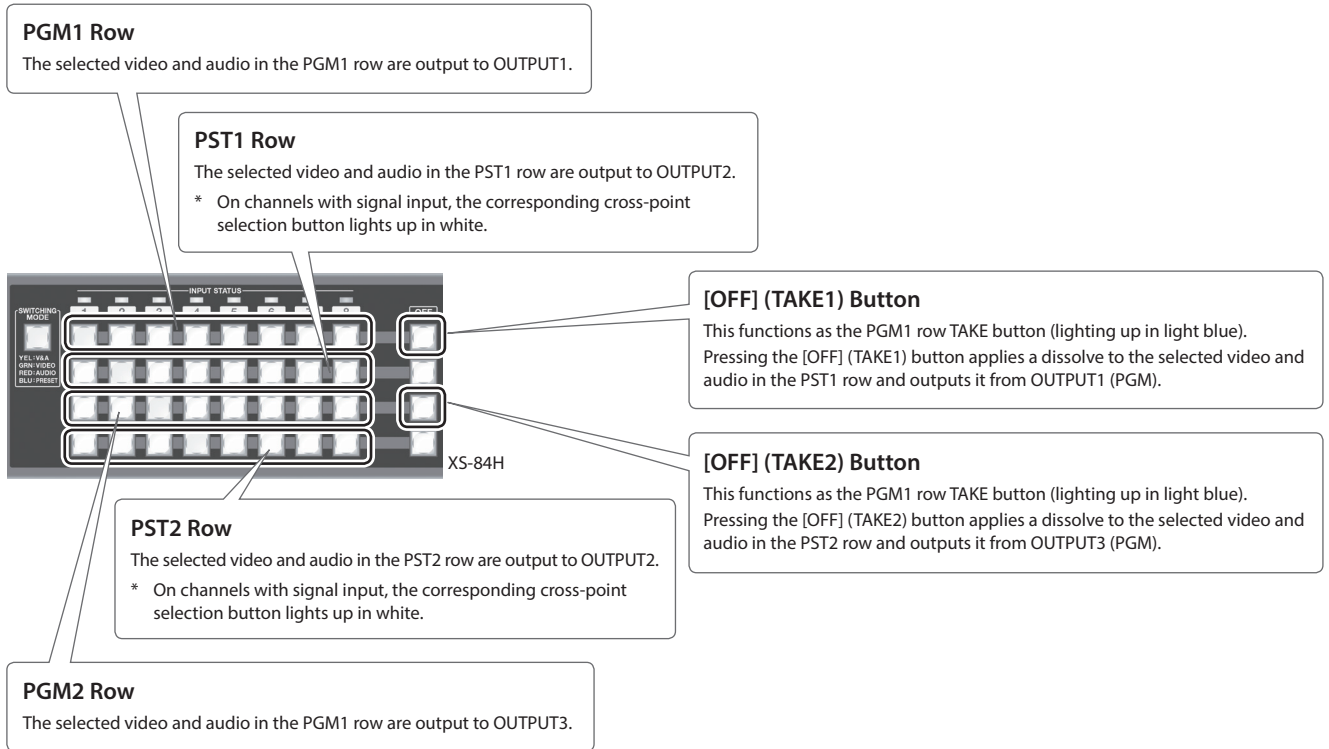
**DUAL PGM-PST Mode** ([MENU] Button → “MODE” → “DUAL PGM-PST”) **XS-84H** **Ver.3.0**

This mode achieves two series of PGM-PST switching. OUTPUT1 and OUTPUT3 operations do not interfere with each other. You can seamlessly switch OUTPUT1 and OUTPUT3 video with a dissolve while monitoring the video to switch to next (PST).

You can perform two series of operations: one in which OUTPUT1 is the final output (PGM) and OUTPUT2 the video to send next (PST), and one in which OUTPUT3 is the final output (PGM) and OUTPUT4 the video to send next (PST).

To perform the operation switching PST to PGM (TAKE), you use the [OFF] buttons for the respective OUTPUTS.

The audio is switched with a crossfade at this time.



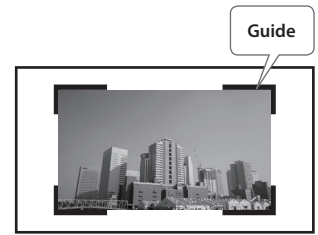
**MEMO**

- The DUAL PGM-PST mode cannot be used on the XS-82H and XS-83H.
- In the DUAL PGM-PST mode, the “RESOLUTION” setting up through OUTPUT2 and 4 is the same as for OUTPUT1.
- Using the cross-point selection buttons to make the selection directly at the PGM row produces a cut transition with no blackness interposed.
- To set the time (duration) for applying the video transition, use the [MENU] button → “TRANSITION” → “TIME.”
- Video and audio can be output separately depending on selection of the [SWITCHING MODE] button.
- When in the DUAL PGM-PST mode, holding down the [EXIT] button and pressing an [OFF] button performs the operation of a regular [OFF] button.
- You can operate the [OFF] (TAKE1) and [OFF] (TAKE2) buttons simultaneously. When you want to operate the two [OFF] (TAKE) buttons simultaneously at all times, select the [MENU] button → “PANEL OPERATION” → set “SYNC-TAKE DUAL-PGM” to “ON.”
- If you want to turn off the flip function that makes the PGM and PST rows change places, select the [MENU] button → “PANEL OPERATION” → “set “PGM-PST FLIP” to “OFF.”

## Displaying a guide on an output screen is now possible. Ver.2.0 Ver.3.0

This displays a guide on the output screen that indicates the effective range of the video. The interior of the guide is the effective range.

[MENU] button → "VIDEO OUTPUT" → "OUTPUT-2" – "OUTPUT 4" (Note: This varies according to the model.) → set "GUIDE SW," "GUIDE COLOR," "GUIDE SIZE," and "GUIDE WIDTH."



Menu item		Value	Description
VIDEO OUTPUT	OUTPUT-1 : OUTPUT-4 * This varies according to model.	GUIDE SW	OFF, OUTSIDE, INSIDE This displays a guide on the output screen that indicates the effective range of the video. OUTSIDE: The guide is displayed outside the effective range. INSIDE: The guide is displayed inside the effective range.
		GUIDE COLOR	WHITE, YELLOW, CYAN, GREEN, MAZENDA, RED, BLUE, BLACK This switches between displaying the guide (in the selected color) and hiding the guide.
		GUIDE SIZE	10–90–100 This sets the guide's size.
		GUIDE WIDTH	1–2–100 This sets the thickness of the guide's border lines.

### NOTE

- Depending on the output mode, the combinations with which guide settings can be made are as shown on the following chart.

MODE	OUTPUT-1	OUTPUT-2	OUTPUT-3	OUTPUT-4
MATRIX	settable	settable	settable	settable
MULTI-2, SPAN-2, 2 x PGM-PST	—	—	settable	settable
MULTI-3, SPAN-3, 3 x PGM-PST	—	—	—	settable
DISSOLVE-1	—	settable	settable	—
PGM-PST	—	settable	settable	settable
DUAL PGM-PST	—	settable	—	settable
MULTI-4, SPAN-4, ROTATION-L1–4, ROTATION-R1–4, 4K-1, 4K-2, DUAL DISSOLVE	—	—	—	—

- No guide is displayed during output of a still image.

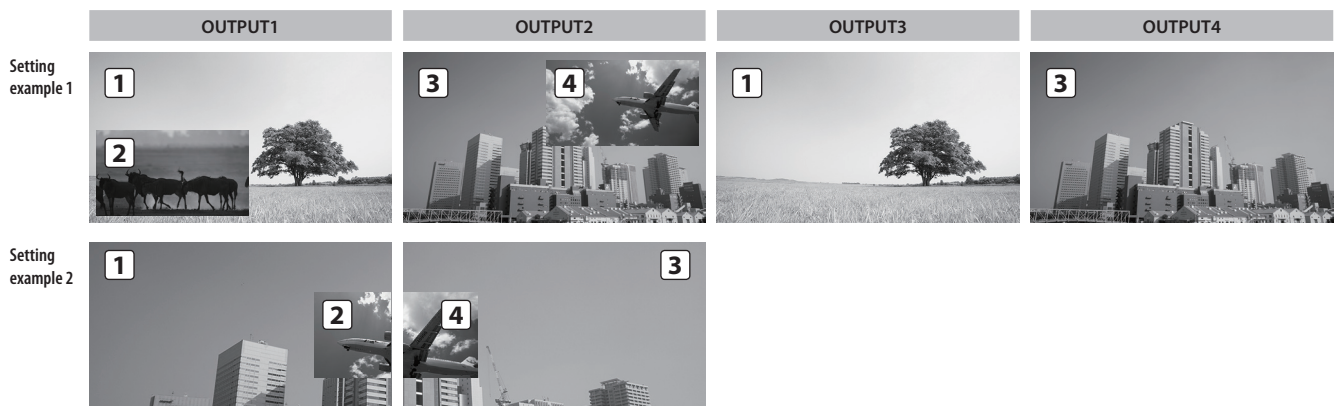
## A function for displaying or hiding windows during MULTI mode output has been added. Ver.2.0

During MULTI mode output, you can switch between displaying or hiding the respective windows for each output channel.

[MENU] button → "MULTI" → "WINDOW-1" – "WINDOW-4" → set "OUTPUT1 SW" – "OUTPUT4 SW" (Note: This varies according to the model.).

Menu item		Value	Description
MULTI	WINDOW-1 : WINDOW-4 * This varies according to model.	OUTPUT1 SW : OUTPUT4 SW * This varies according to model.	OFF, ON This sets whether the window is displayed (ON) or hidden (OFF). * Separately adjusting the size and position of the window for each output channel is not possible.

- Examples of output mode "MULTI-4" settings (XS-84H) \* On-screen numbers are WINDOW output modes.



## The output picture is no longer interrupted during switching of the output mode. **Ver.2.0**

“OUTPUT1 SYNC” was added to the “VIDEO OUTPUT” menu items. On output channels for which “OUTPUT1 SYNC” is set to “ON,” the output video is not interrupted when the output mode is switched.

[MENU] button → “VIDEO OUTPUT” → “OUTPUT-2” – “OUTPUT 4” (Note: This varies according to the model.) → set “OUTPUT1 SYNC” to “ON.”

### MEMO

- On output channels for which “OUTPUT1 SYNC” is set to “ON,” the output resolution is the same as OUTPUT1.
- When the output mode is set to the ROTATION mode, the output picture is not interrupted, but may experience momentary corruption.

## The key lock mode now covers additional buttons. **Ver.2.0**

[MENU] button → “SYSTEM” → “KEY LOCK” → “VALUE” button → “KEY LOCK MODE” popup with additional setting items. Items set to “ON” are subject to key locking.

### ● “KEY LOCK MODE” popup

Setting items	Value	Description
CROSS-NOINPUT	OFF, ON	Cross-point selection buttons that have no signal input.
CROSS-OFF	OFF, ON	[OFF] buttons
CROSS-OUTPUT1 : CROSS-OUTPUT4	OFF, ON	Cross-point selection buttons for each respective OUTPUT row.
* This varies according to model.		

\* For information on turning the key lock mode on and off, go to the Reference Manual (PDF) and refer to “Menu List: SYSTEM: KEY LOCK MODE” (p. 14).

## The audio send level can now be set separately for each output channel. **Ver.2.0**

[MENU] button → “AUDIO INPUT” → “HDMI-1” – “HDMI-8” or “ANALOG-1” – “ANALOG-8” → use “OUT1 SEND RATE” – “OUT4 SEND RATE” (Note: This varies according to the model.) to set the amount of audio sent for the respective output channel.

Menu item	Value	Description
AUDIO INPUT HDMI-1 : HDMI-8 ANALOG-1 : ANALOG-8	OUT1 SEND RATE : OUT4 SEND RATE * This varies according to model.	0%–100% This sets the audio send level for the respective output channel.

### ● Example: When “AUDIO FOLLOW” is set to “ON”

The output level of audio is the “INPUT LEVEL” value multiplied by the “SEND RATE” value for the selected output channel.

INPUT LEVEL: 100 (0.0 dB)  
OUT1 SEND RATE: 100 %      ►      OUTPUT1 output level: 100 (0.0 dB) x 1.00 (100 %) = 100 (0.0 dB)

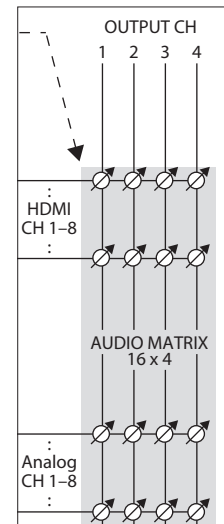
### ● Example: When “AUDIO FOLLOW” is set to “OFF”

\* Setting “AUDIO FOLLOW” to “OFF” sends audio to all output channels.

The output level of audio is the “INPUT LEVEL” value multiplied by the “SEND RATE” value for the respective output channel.

INPUT LEVEL: 100 (0.0 dB)  
OUT1 SEND RATE: 100 %      ►      OUTPUT1 output level: 100 (0.0 dB) x 1.00 (100 %) = 100 (0.0 dB)  
OUT2 SEND RATE: 50 %      ►      OUTPUT2 output level: 100 (0.0 dB) x 0.50 (50 %) = 50 (-14.1dB)  
OUT3 SEND RATE: 25 %      ►      OUTPUT3 output level: 100 (0.0 dB) x 0.25 (25 %) = 25 (-23.1 dB)  
OUT4 SEND RATE: 0 %      ►      OUTPUT4 output level: 100 (0.0 dB) x 0.00 (0 %) = 0 (-INF dB)

Starting with version 2.00, the cross point section of the audio mixer has been changed as shown below.



## It is now possible to set the number of audio channels output via HDMI. **Ver.2.0**

Use the [MENU] button → “AUDIO OUTPUT” → “OUTPUT 1” – “OUTPUT 4” (Note: This varies according to the model.) → “HDMI AUDIO CH” to set the number of audio channels.

Menu item		Value	Description
AUDIO OUTPUT	OUTPUT-1 : OUTPUT-4 * This varies according to model.	HDMI AUDIO CH  2ch, 5.1ch, 7.1ch	This sets the number of audio channels output via the HDMI OUTPUT connector.

## A bezel compensation function was added. **Ver.3.0**

This adjusts for the distance between monitors connected to the respective OUTPUTs when in the SPAN, ROTATION, or 4K mode.

In the case of television monitors, for example, it adjusts for the width of the monitor bezels. In the case of projectors, it adjusts for the width applied to OUTPUT.

Select the [MENU] button → “BEZEL COMP” → use “OUT1-2 HORIZ PIX,” “OUT2-3 HORIZ PIX,” “OUT3-4 HORIZ PIX,” or “OUT1-3/2-4 VER LINE” to adjust.

Menu item		Value	Description
BEZEL COMP	OUT1-2 HORIZ PIX (*1) (*2)	-1000-0-1000	This adjusts the horizontal distance of OUTPUT1 and 2.
	OUT2-3 HORIZ PIX (*1) (*3)	-1000-0-1000	This adjusts the horizontal distance of OUTPUT2 and 3.
	OUT3-4 HORIZ PIX (*1) (*4)	-1000-0-1000	This adjusts the horizontal distance of OUTPUT3 and 4.
	OUT1-3/2-4 VER LINE (*2) (*4)	-1000-0-1000	When the output mode is 4K-1 or 4K-2, this adjusts the vertical distance for OUTPUT1 and 3 or OUTPUT2 and 4.

(\*1): This is enabled when “MODE” is one of the following.

“SPAN-2”-“SPAN-4,” “ROTATION-L1”-“ROTATION-L4,” “ROTATION-R1”-“ROTATION-R4”

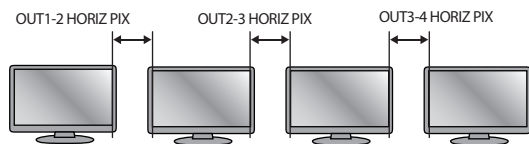
(\*2): This is enabled when “MODE” is “4K-1” or “4K-2.”

(\*3): XS-83H/XS-84H only

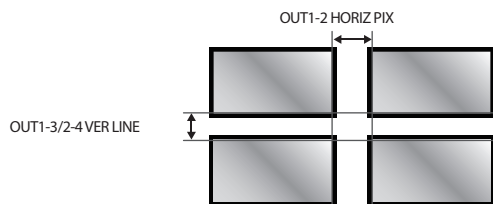
(\*4): XS-84H only

### ● Displays

#### SPAN mode, ROTATION mode

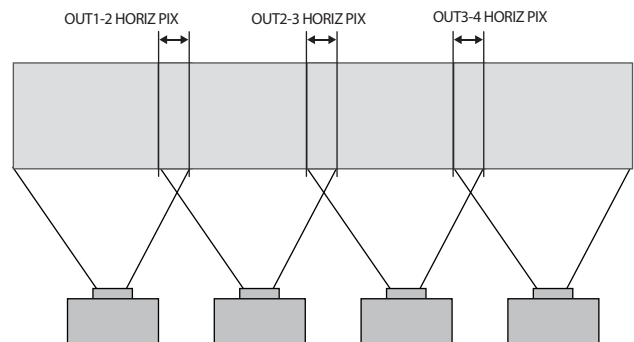


#### 4K mode

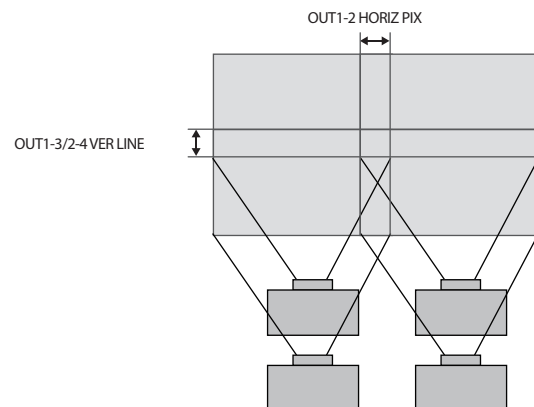


### ● Projectors

#### SPAN mode, ROTATION mode

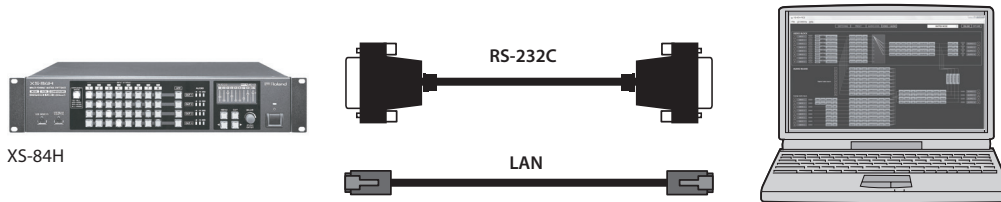


#### 4K mode



## Support was added for the XS-80H RCS computer program. **Ver.3.0**

This lets you connect the unit and a computer over a LAN or via the RS-232C interface and operate the unit from the computer.  
 For details on how to operate and make the connections for XS-80H RCS, refer to the XS-80H RCS Owner's Manual.  
 XS-80H RCS is available for download at the Roland website (<http://proav.roland.com/>).



## A panel-operation function was added. **Ver.3.0**

A panel-operation function that is useful for operation was added. It makes possible such tasks as simultaneous switching and interlinking with other OUTPUTS.

Use the [MENU] button → "PANEL OPERATION" to make the settings.

Menu item	Value	Description
PANEL OPERATION	TRANS OPERATION	<b>SINGLE PRESS, DOUBLE PRESS (*1)</b> This sets the method of operation of the cross-point selection buttons SINGLE PRESS: Pressing a cross-point selection button once switches the video or audio. DOUBLE PRESS: Pressing a cross-point selection button puts the video or audio to output next on standby (flashing). Pressing any flashing button switches, in one operation, all video and audio currently on standby.
	PGM-PST FLIP	<b>OFF, ON</b> This sets the operation of the cross-point selection buttons when "MODE" is "PGM-PST," "2 x PGM-PST," "3 x PGM-PST," or "DUAL PGM-PST." When this is set to "ON," the lighted places in the PGM row and PST row change places when video/audio switching finishes (flip function).
	OUT1 LINKED CH (*2)	<b>OUTPUT1-OUTPUT4</b> * This varies according to model. This sets the output-channel selection with which switching of OUTPUT1 is interlinked when the cross-point selection button is operated.
	OUT2 LINKED CH (*2)	<b>OUTPUT1-OUTPUT2-OUTPUT4</b> * This varies according to model. This sets the output-channel selection with which switching of OUTPUT2 is interlinked when the cross-point selection button is operated.
	OUT3 LINKED CH (*2) (*3)	<b>OUTPUT1-OUTPUT3-OUTPUT4</b> * This varies according to model. This sets the output-channel selection with which switching of OUTPUT3 is interlinked when the cross-point selection button is operated.
	OUT4 LINKED CH (*2) (*4)	<b>OUTPUT1-OUTPUT4</b> This sets the output-channel selection with which switching of OUTPUT4 is interlinked when the cross-point selection button is operated.
SYNC-TAKE DUAL-PGM	<b>OFF, ON</b> (*4) This sets the operation of the [OFF] (TAKE) buttons when the "MODE" setting is "DUAL PGM-PST." When this is set to "ON," the two [OFF] (TAKE) buttons are interlinked.	

(\*1): Depending on the output mode, the combinations with which "DOUBLE PRESS" can be used are as shown in the following chart.

MODE	OUTPUT-1	OUTPUT-2	OUTPUT-3	OUTPUT-4
MATRIX, MULTI-2-4, SPAN-2-4, ROTATION-L1-4, ROTATION-R1-4, 4K-1, 4K-2, DISSOLVE-1, DUAL DISSOLVE	Usable	Usable	Usable	Usable
PGM-PST	—	—	Usable	Usable
2 x PGM-PST	—	—	—	Usable
3 x PGM-PST, DUAL PGM-PST	—	—	—	—

(\*2): Depending on the output mode, the combinations with which "OUT1 LINKED CH"-"OUT4 LINKED CH" can be used are as shown in the following chart.

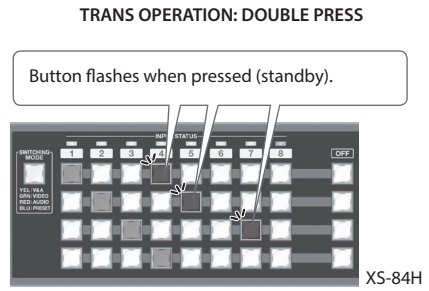
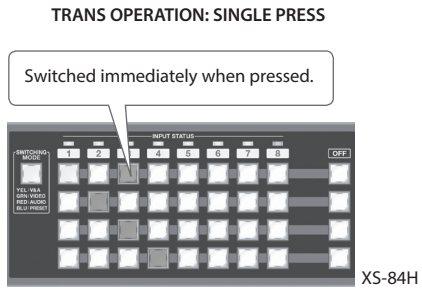
MODE	OUTPUT-1	OUTPUT-2	OUTPUT-3	OUTPUT-4
MATRIX, MULTI-2-4	Usable	Usable	Usable	Usable
SPAN-2, PGM-PST	—	—	Usable	Usable
SPAN-3, 2 x PGM-PST	—	—	—	Usable
DISSOLVE-1	—	Usable	Usable	—
SPAN-4, ROTATION-L1-4, ROTATION-R1-4, 4K-1, 4K-2, 3 x PGM-PST, DUAL DISSOLVE, DUAL PGM-PST	—	—	—	—

(\*3): XS-83H/XS-84H only

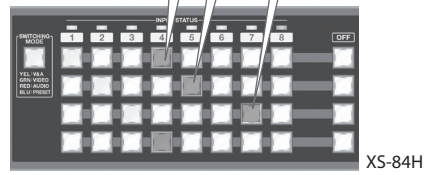
(\*4): XS-84H only

Details of "TRANS OPERATION"

Switched immediately when pressed.



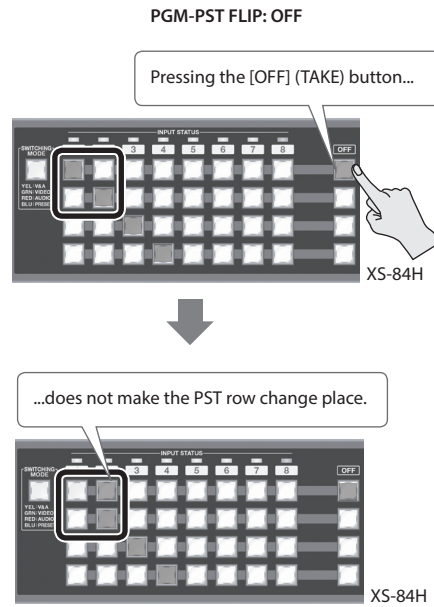
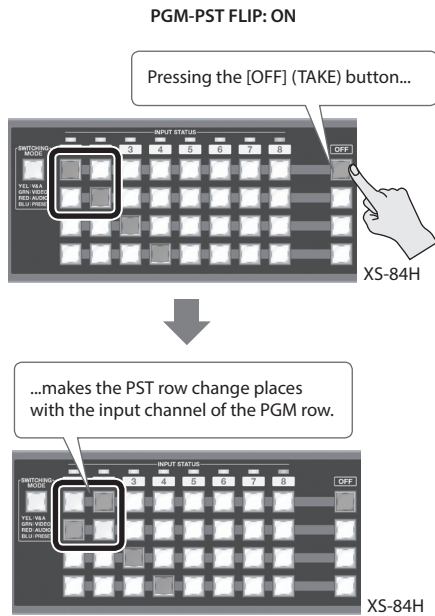
Pressing any button that is flashing (standby) switches, in one operation, all video and audio currently on standby.



Details of "PGM-PST FLIP"

This sets the operation of the cross-point selection buttons when the output mode is PGM-PST, 2 x PGM-PST, 3 x PGM-PST, or DUAL PGM-PST.

PGM-PST Mode



\* You can use this function only in the PGM-PST, 2 x PGM-PST, 3 x PGM-PST, or DUAL PGM-PST mode.

Details of "OUT1-4 LINKED CH"

● Examples of OUT1-4 LINK CH Settings (XS-84H)

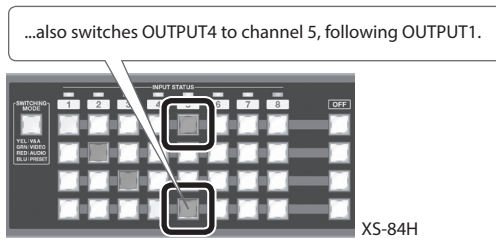
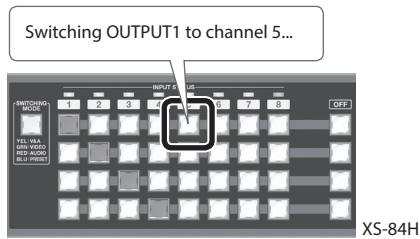
When the cross-point selection buttons are operated, OUTPUT4 is switched in tandem the selection of OUTPUT1.

OUT1 LINK CH: OUTPUT1

OUT2 LINK CH: OUTPUT2

OUT3 LINK CH: OUTPUT3

**OUT4 LINK CH: OUTPUT1**

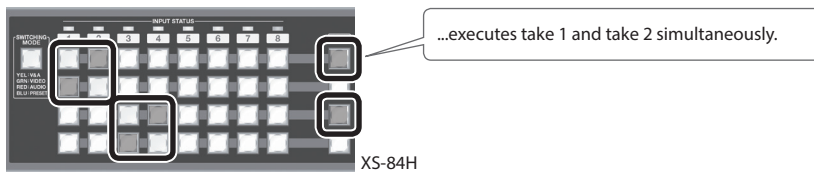
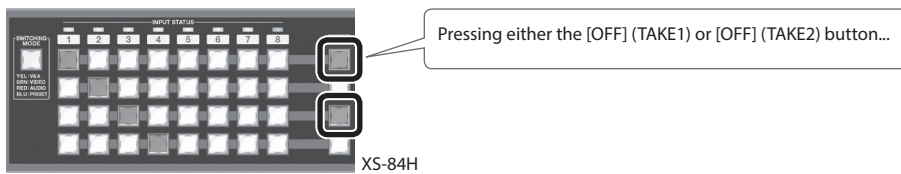


Details of "SYNC-TAKE DUAL PGM"

This sets the operation of the [OFF] (TAKE) buttons when the "MODE" setting is "DUAL PGM-PST."

● Examples of OUT1-4 LINK CH Settings (XS-84H)

SYNC-TAKE DUAL PGM: ON



\* You can use this function only in the DUAL PGM-PST mode.

## Still-image capture has been made possible. Ver.3.0

A function for capturing video output as still images was added. Captured still images are saved in the unit.  
Press the [MENU] button → use "CAPTURE IMAGE" to make the setting.

Menu item	Value	Description
CAPTURE IMAGE (*1)	CAPTURE SOURCE	OUTPUT1-OUTPUT4 * This varies according to model.
	TARGET STILL	STILL1, STILL2, STILL3, STILL4
	CAPTURE EXECUTE	(ENTER)
		This sets the output video to use for still-image capture.
		This sets the destination for saving a captured still image.
		Pressing the [VALUE] dial displays the "CAPTURE EXECUTE" popup. This executes the capture operation and saves the still image in the unit.

(\*1): Depending on the output mode, the combinations with which "CAPTURE IMAGE" can be used are as shown in the following chart.

MODE	OUTPUT-1	OUTPUT-2	OUTPUT-3	OUTPUT-4
MATRIX, SPAN-2-4, 4K-1, 4K-2, PGM-PST, 2 x PGM-PST, 3 x PGM-PST	Usable	Usable	Usable	Usable
MULTI-2	—	—	Usable	Usable
MULTI-3	—	—	—	Usable
DISSOLVE-1	Usable	Usable	Usable	—
DUAL DISSOLVE	Usable	Usable	—	—
MULTI-4, ROTATION-L1-4, ROTATION-R1-4	—	—	—	—

1. Select the [MENU] button → "CAPTURE IMAGE" → make the settings for "CAPTURE SOURCE" and "TARGET STILL."
2. Use "CAPTURE IMAGE" to select "CAPTURE EXECUTE," then press the [VALUE] dial.
3. Check the message and press the [VALUE] dial.  
(If you want to quit, press the [EXIT] button.)  
Capture starts.
4. When capture finishes, use the [MENU] button → "VIDEO INPUT" → "INPUT1-8" → "INPUT SELECT2 to select the number of the destination for saving, then check the display.

### NOTE

- When you capture HDCP-protected video, the result is saved as an HDCP-protected still image. When you want to output an HDCP-protected still image, select the [MENU] button → "VIDEO OUTPUT" → one of "OUTPUT-1" through "OUTPUT-4" (Note: This varies according to the model.) → set "HDCP" to "ON."
- Captured still-image files can be saved only in the unit. Saving them on a USB flash drive is not possible.
- Capture cannot be executed when you have selected the [MENU] button → "SYSTEM" → set "MEMORY PROTECT" to "ON."

## An output freeze function was added. Ver.3.0

"OFF SWITCH MODE" was added to the "OFF SWITCH" menu items. Making the mode setting makes the [OFF] buttons function as freeze buttons, letting you freeze output video temporarily. To release a freeze, press the [OFF] button a second time.

Select the [MENU] button → "OFF SWITCH" → use "OFF SWITCH MODE" to make the setting.

Menu item	Value	Description
OFF SWITCH	OFF SWITCH MODE	OUTPUT FADE, OUTPUT FREEZE (*1)
		This sets the functioning of the [OFF] button.
		OUTPUT FADE: This applies a fade to output video. OUTPUT FREEZE: This freezes output video.

(\*1): Depending on the output mode, the combinations with which "OUTPUT FREEZE" can be used are as shown in the following chart.

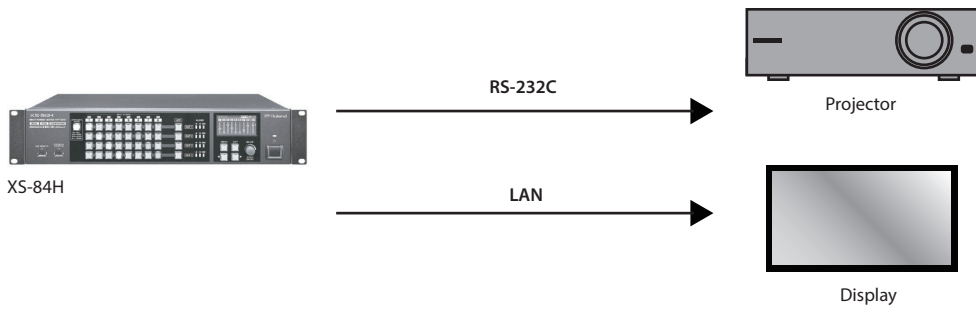
MODE	OUTPUT-1	OUTPUT-2	OUTPUT-3	OUTPUT-4
MATRIX, SPAN-2-4, 4K-1, 4K-2, PGM-PST, 2 x PGM-PST, 3 x PGM-PST	Usable	Usable	Usable	Usable
MULTI-2	—	—	Usable	Usable
MULTI-3	—	—	—	Usable
DISSOLVE-1	Usable	Usable	Usable	—
DUAL DISSOLVE	Usable	Usable	—	—
MULTI-4, ROTATION-L1-4, ROTATION-R1-4	—	—	—	—

### MEMO

- Performing any of the following operations cancels a freeze.
  - Switching to another input in the OUTPUT row during a freeze
  - Switching the output mode
  - Changing the output format

**Turning the power to projectors on and off using RS-232C or HDBaseT has been made possible. Ver.3.0**

“COMMAND” was added to the menu items. You can send RS-232C commands via RS-232C or HDBaseT on the unit to start a projector or TV monitor at the connection destination. Press the [MENU] button → use “COMMAND” to make the settings.



Menu item	Value	Description
COMMAND  COMMAND-1 : COMMAND-32	TYPE	<b>NONE</b> , EPSON: Power ON, EPSON: Power OFF, EPSON: AV Mute ON, EPSON: AV Mute OFF, Panasonic: Power ON, Panasonic: Power OFF, Panasonic: Shutter ON, Panasonic: Shutter OFF, Panasonic: V-Mute ON, Panasonic: V-Mute OFF, Panasonic: A-Mute ON, Panasonic: A-Mute OFF, Sony: Power ON, Sony: Power OFF, Sony: V-Mute ON, Sony: V-Mute OFF, Sony: A-Mute ON, Sony: A-Mute OFF, Sony [NEW]: Power ON, Sony [NEW]: Power OFF, Sony [NEW]: V-Mute ON, Sony [NEW]: V-Mute OFF, Sony [NEW]: A-Mute ON, Sony [NEW]: A-Mute OFF  This specifies the command to output. * For more information on commands, go to the Reference Manual (PDF) and refer to “Menu List: COMMAND” (p. 13).
	PORT	<b>RS-232C</b> , HDBaseT1, HDBaseT2, HDBaseT3, HDBaseT4  This sets the output destination for the command.
	BAUD RATE	<b>9600 bps</b> , 19200 bps, 38400 bps, 115200 bps  This sets the baud rate (bit rate). * When “PORT” is set to “RS-232C,” the “RS-232C” menu “BAUD RATE” setting is applied.
	COMMAND TIMING	<b>OFF</b> , STARTUP, PRESET1–32  This sets the timing for outputting commands. STARTUP: This outputs commands at unit startup. PRESET1–32: This outputs commands when a preset is recalled.

● Example of Settings

Sending “Panasonic: Power ON” from HDBaseT at OUTPUT2 while executing preset 5

Menu item	Value
TYPE	Panasonic: Power ON
PORT	HDBaseT
BAUD RATE	9600 bps
COMMAND TIMING	PRESET5

**MEMO**

- When you have used the “COMMAND TIMING” setting to assign the same preset number, executing the set preset outputs the commands in sequence, starting from the lowest command number.
- To output commands to HDBaseT, select the [MENU] button → “VIDEO OUTPUT” → one of “OUTPUT-1” through “OUTPUT-4” (Note: This varies according to the model.) → set “OUTPUT SELECT” to “HDBaseT.”
- For information on how to make the settings for projectors and displays at connection destinations, refer to the equipment documentation.
- For information on supported models, refer to the Roland website (<http://proav.roland.com/>).

**NOTE**

- Command operation is intended for typical devices from the manufacturers. Operation with all devices from a particular manufacturer is not assured.

**VIDEO INPUT/VIDEO OUTPUT menu ZOOM values have been changed to steps of 0.1%. Ver.3.0**

● **“ZOOM” for VIDEO INPUT**

With the [MENU] button → “VIDEO INPUT” → “INPUT-1” through “INPUT-8” → “ZOOM,” the minimum unit of operation is now 0.1%.

Before the change	After the change
10 %–1000 %	10.0 %–1000.0 %

● **“ZOOM” for VIDEO OUTPUT**

With the [MENU] button → “VIDEO OUTPUT” → “OUTPUT-1” through “OUTPUT-4” (Note: This varies according to the model.) → “ZOOM,” the minimum unit of operation is now 0.1%.

Before the change	After the change
10 %–1000 %	10.0 %–1000.0 %

**Video-system resolutions have been added for EDID. Ver.2.0 Ver.3.0**

[MENU] button → “EDID” → “HDMI EDID IN-1” – “HDMI EDID IN-8” have added video-system resolutions. The underlined settings have been newly added in version 2.0/3.0.

Menu item	Value
EDID HDMI EDID IN-1 : HDMI EDID IN-8	<ul style="list-style-type: none"> <li>When “FRAME RATE” under “SYSTEM” is set to “59.94 Hz” <b>INTERNAL</b>, 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, <u>1280 x 800</u>, 1366 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, 1920 x 1200, DATA1–8, <u>480i 4:3, 480i 16:9, 480p 4:3, 480p 16:9, 720p, 1080i, 1080p</u></li> <li>When “FRAME RATE” under “SYSTEM” is set to “50 Hz” <b>INTERNAL</b>, 640 x 480, 800 x 600, 1024 x 768, 1280 x 768, <u>1280 x 800</u>, 1366 x 768, 1280 x 1024, 1400 x 1050, 1600 x 1200, 1920 x 1200, DATA1–8, <u>576i 4:3, 576i 16:9, 576p 4:3, 576p 16:9, 720p, 1080i, 1080p</u></li> </ul>

**Output resolutions were added. Ver.3.0**

Video resolutions were added under the [MENU] button → “VIDEO OUTPUT” → one of “OUTPUT-1” through “OUTPUT-4” (Note: This varies according to the model.) → “RESOLUTION.” The underlined areas indicate setting values added in version 3.0.

Menu item	Value
VIDEO OUTPUT OUTPUT-1 : OUTPUT-4 * This varies according to model.	<ul style="list-style-type: none"> <li>When “FRAME RATE” under “SYSTEM” is set to “59.94 Hz” 480i 4:3, 480i 16:9, 480p 4:3, 480p 16:9, 720/59.94p, <b>1080/59.94i</b>, 1080/59.94p, 640 x 480/60, 800 x 600/60, 1024 x 768/60, 1280 x 768/60, <u>1280 x 800/60</u>, 1366 x 768/60, 1280 x 1024/60, 1600 x 1200/60, 1920 x 1200/60</li> <li>When “FRAME RATE” under “SYSTEM” is set to “50 Hz” 576i 4:3, 576i 16:9, 576p 4:3, 576p 16:9, 720/50p, <b>1080/50i</b>, 1080/50p, 640 x 480/75, 800 x 600/75, 1024 x 768/75, 1280 x 768/75, <u>1280 x 800/75</u>, 1366 x 768/75, 1280 x 1024/75, 1600 x 1200/60, 1920 x 1200/60</li> </ul>

\* The frame rates of the added output resolutions vary according to the [MENU] button → “SYSTEM” → “FRAME RATE.”

**SUBNET MASK was added to the LAN settings. Ver.3.0**

“SUBNET MASK” was added to the “LAN” menu items. Select the [MENU] button → “LAN” → use “SUBNET MASK” to make the setting.

**MEMO**

- When the “LAN” menu item “CONFIGURE” is set to “USING DHCP,” “SUBNET MASK” cannot be changed. To change it, first set “CONFIGURE” to “MANUALLY.”



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