



## Technical Memo

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**RANK** 3

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**Revised :**

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**Issued :** December 13, 2021

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**Subject:** Software Release [V1.30]

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**Revise Point(s)**

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**Issue No.**HDCM21-053

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**Target Models / Destination**

Model Name	Dest	Model Name	Dest	Model Name	Dest	Model Name	Dest
RCP-3500	SYM	RCP-3501	SYM				

**[Description]**

Updated version of the software for RCP-3500/3501 is released. (V1.20 => V1.30)  
Upgrade it as necessary.

**[Applicable Model]**

Model / Destination	Serial Number			Number of Unit
RCP-3500 SYM		-		
RCP-3501 SYM		-		
		-		

**[Change Points]**

## &lt;New Functions&gt;

1. Added Cinema and S-Gamut3 of OETF / Color Space in Multi Format as an option.
2. Support HDR User Gamma
3. DHCP support for TCP / IP settings
4. Supports log acquisition
5. Supports Ember+
6. Supports Web Menu

## &lt;Function Change / Function Improvement&gt;

1. Change the brightness of the LCD screen to the same level as the RCP-1500/1501

To return to the brightness before the version upgrade, adjust from the Config > RCP > Display / Sound > LCD menu.

<Detail of new functions>

## 1. Added Cinema and S-Gamut3 of OETF / Color Space in Multi Format as an option

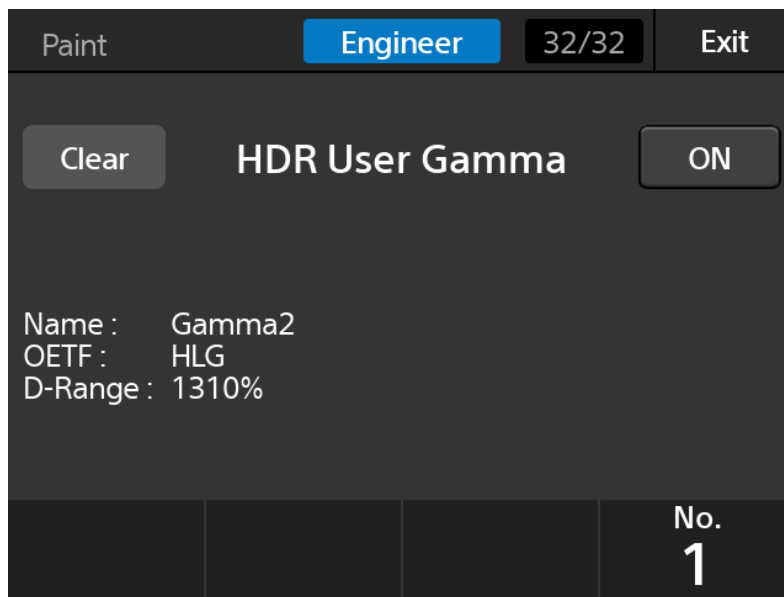
The following options have been added.

OETF: S-Log3(Cinema)  
 Color Space: S-Gamut3, S-Gamut3.Cine

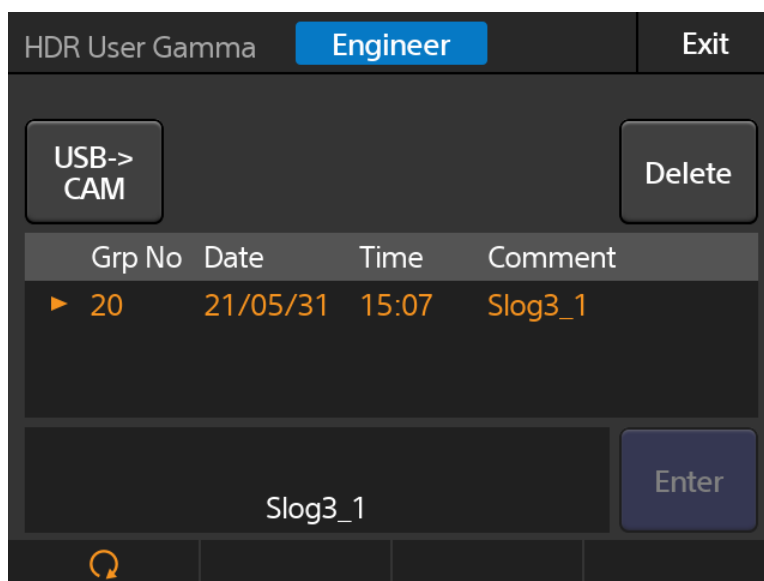
## 2. Support HDR User Gamma

Added HDR User Gamma setting to Paint menu.

The HDR User Gamma function is a function that it is possible to apply the curve created to the HDR output. Set the HDR User Gamma function On / Off with the ON button, and select the curve number to be applied to the HDR output with Rotary Encoder.



Also added File->HDR User Gamma->HDR User Gam Trans menu. It is possible transfer the HDR User Gamma file saved in USB Memory to the camera. The operation specifications are the same as User Gamma.



### 3. DHCP support for TCP / IP settings

Added DHCP to TCP / IP settings. The conventional fixed IP setting can be selected as Static.

TCP/IP		Engineer	Exit
<input checked="" type="radio"/> DHCP	IP Address: 10.0.201.13 Subnet: 255.0.0.0 Default GW: 0.0.0.0	Set	Cancel
<input type="radio"/> Static	IP Address: 10.2.0.134 Subnet: 255.0.0.0 Default GW: 10.2.0.254	Edit	

### 4. Supports log acquisition

In Engineer mode, you can get the log to the USB memory from the Configuration -> RCP -> Log menu. The operation log saved in the internal memory can be output to USB. You can also clear the log in the internal memory.

Log Export	Engineer	Exit
Export to USB		
Clear		

## 5. Supports Ember+

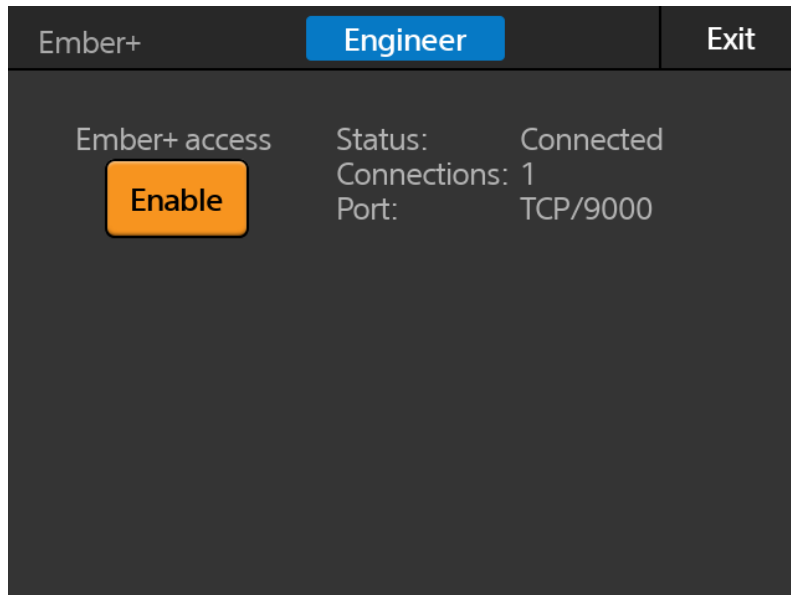
It is possible to set the camera network of the RCP from an external controller that supports the Ember+ protocol and notify the preview status to the external controller.

Make the following settings after setting to Engineer mode.

### 5.1 Enabling Ember + features

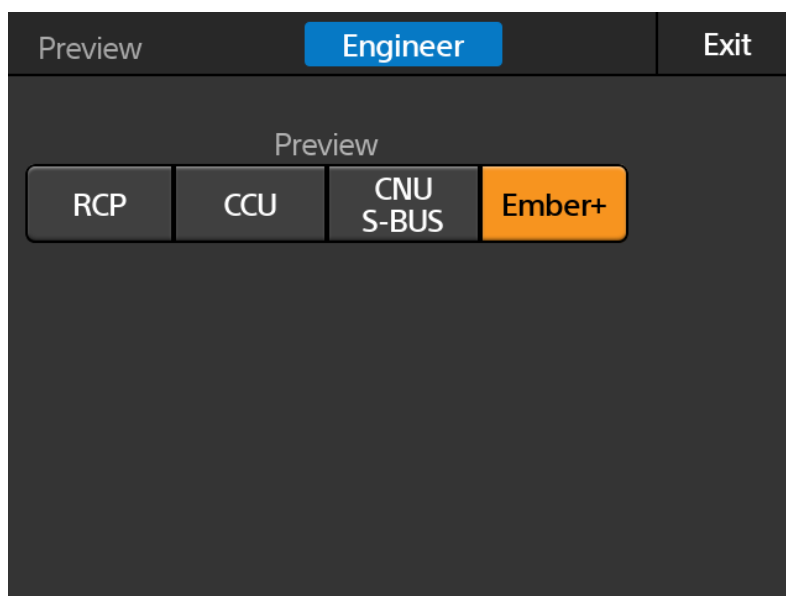
Enable Ember+ access from the Configuration > RCP > Network > Ember+ menu.

The connection destination port from the external controller is fixed at 9000.



### 5.2 Enabling Preview output over the Ember+

Enable Ember+ from the Config> RCP > Mode > Preview menu.



### 5.3 Supported items of Ember+

With this unit, the following settings / browsing are possible using the Ember+ protocol.

- Browsing device information (serial number, etc.)
- Camera network settings (CNS Settings)
- Preview operation status

Table 5-1 shows the items that can be set / viewed from an external controller using the Ember+ + protocol.

Table 5-1

Primary Item	Item	Access	Description
Information	Category	Read Only	“RCP” fixed
	Model name	Read Only	“RCP-3500” or “RCP-3501”
	Serial number	Read Only	Serial number
	Version	Read Only	Software version
	Manufacturer	Read Only	“Sony Corporation” fixed
	Id	Read Only	Device Unique ID
Network /CNS Settings	CNS Mode	Read/Write	Supports CNS menu items on the RCP LCD menu
	RCP number	Read/Write	
	Master IP	Read/Write	
	Bridge Target IP	Read/Write	
Multi Camera System	RCP assignment /Camera number	Read Only	Camera number to which RCP is assigned
Operation/Preview	Preview/Status	Read Only	Preview operation status True: Joystick / Preview button is pressed False: Joystick / Preview button is not pressed

## 6. Supports Web Menu

By using a web browser, you can check the setting information of this machine and set the assignable function.

### How to access the web menu

The following operations are performed in Engineer mode.

1. Make sure that <WEB MENU> → WEB MENU in the NETWORK menu is ENABLE.
2. Use <TCP / IP> in the NETWORK menu to configure the settings required for network connection (IP address, Subnet Mask, Default Gateway, etc.).
3. Enter the IP address of this machine (example: http://192.168.0.101/) in the Web browser of the PC and press the Enter key.
4. Enter the username (admin) and the password you set in the pop-up displayed by the web browser. If the password has not been set, the password setting screen is displayed.

**\* Recommended to use Chrome. If you use a web browser other than Chrome, the design of the web menu may be corrupted or some functions may not work. You need to use a browser with digest authentication enabled.**

**\* As a security measure, if authentication fails multiple times, access from that PC will be denied for a while. This state is cleared after 5 minutes.**

**The password can be reset by selecting <WEB MENU> → PASSWORD RESET from the NETWORK menu of this unit.**

## **Set an authentication password**

Use digest authentication for added security. If the password has not been set, the password setting screen will be displayed when you access the Web menu. Enter the password in [Password] and [Confirm Password] on the screen. [Username] is fixed as admin.

[password]

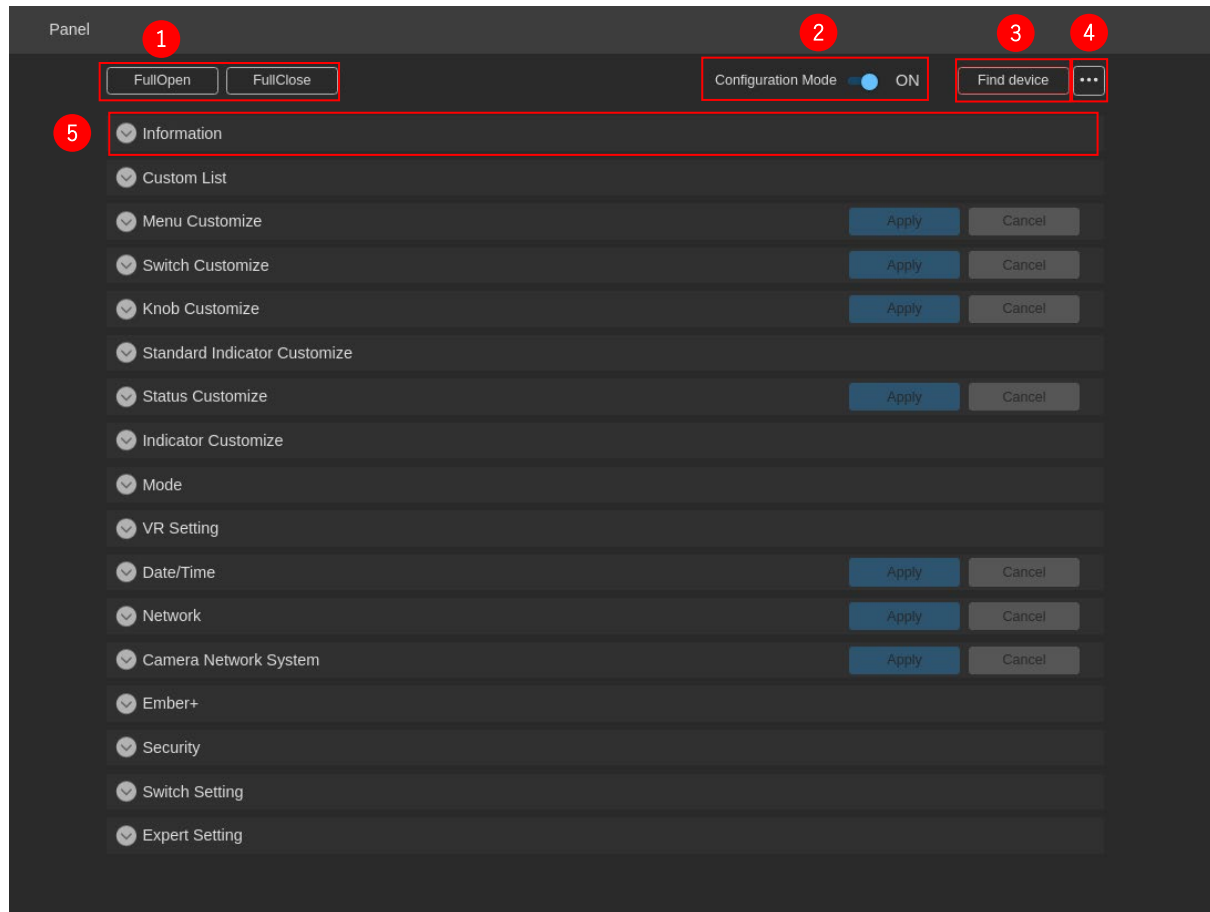
Alphanumeric characters and symbols of 8 to 32 characters can be used for the password. To enhance security, it is necessary to include both letters and numbers.

(Available symbols: ! ? # \$ % & ' + ~ , - . = \_ < > \* " @ ¥ | / ; : { } Half-width space)

[Password confirmation]

To confirm the password, re-enter the same characters that you entered in [Password]

## TOP screen



### 1 FullOpen / Close

Click to open / close Expander in the function panel respectively.

### 2 Configuration Mode

Click and select ON the toggle switch to enable settings on the Web. OFF can only be referenced.

Configuration Mode is set for each web browser that has a web menu open.

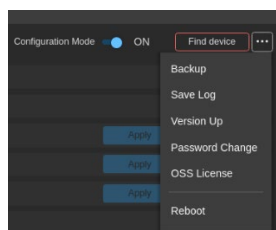
### 3 Find Device

It can be used to identify the set that is set when using multiple units.

Each time you press the button, it switches between ON and OFF. When turned on, the CALL button on this unit lights red and makes a sound.


### 4 Context Menu Button

Press the button to open the Context Menu. It can be closed by clicking on the opened choice or by clicking outside the Context Menu. Each item will be explained in <Context Menu>.





## 5 Function panel

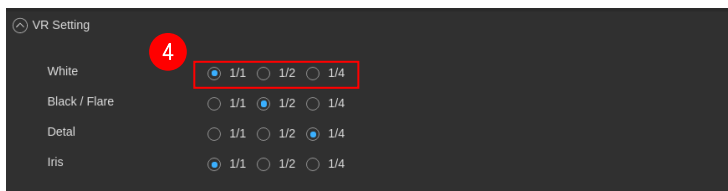
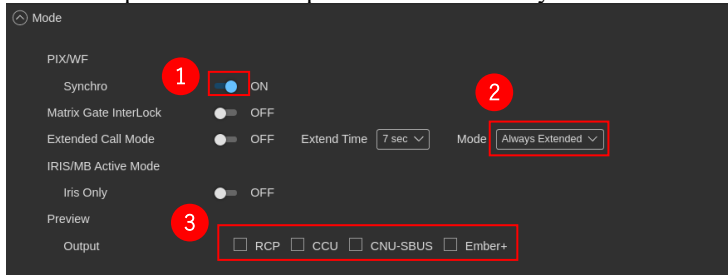
Click the  button or function panel name to expand the function panel.

If you click the button or the function panel name again in the open state, the function panel will be closed.

## Timing of reflection of settings in the operation of this machine

There are two types of function panels: a function panel that immediately reflects the changed value, and a function panel that reflects the changes by pressing the Apply button after editing.

### ■ Example of a function panel that immediately reflects the changed value (Mode and VR Setting)



The function panel without the Apply / Cancel button is reflected in the operation when the setting is changed. Basic settings are made using one of the toggle switches, pull-downs, and check boxes shown below.

### 1 Toggle switch

Click to switch the setting ON / OFF.

### 2 Pull-down button

Click to display the options in a pull-down menu format.

Select one of the options or click outside the frame to close the pull-down menu.

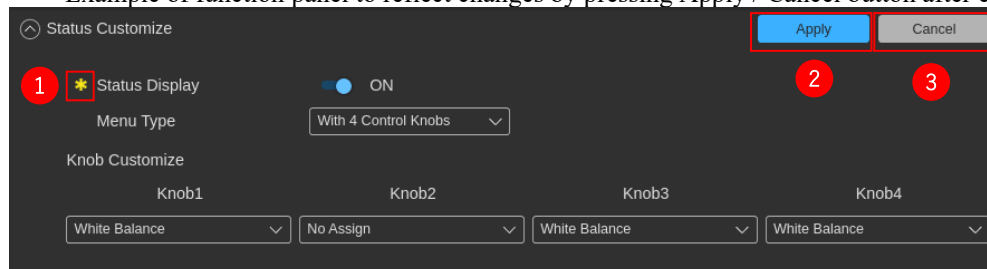
### 3 Checkbox

Click to check the item. Multiple checks are possible.

### 4 Radio button

Click to select the item. Since only one item can be selected, if another item is selected, the other item is deselected.

■ Example of function panel to reflect changes by pressing Apply / Cancel button after editing (Status Customize)



In the function panel with Apply / Cancel button, the edit mark is displayed when the change is made, and the Apply button and Cancel button, which were disabled in the initial state, can be pressed.

The edited contents in the Web menu are retained until the Apply button is pressed, and the contents are reflected in the actual machine after the Apply button is pressed. (Apply / Cancel is disabled again)

If you press the Cancel button, the edited contents in the Web menu will be discarded and the settings reflected in the current operation will be reset. (Apply / Cancel is disabled again)

If you are not editing in the Web menu, the changes on the main unit are automatically reflected on the Web menu side, but the changes on the main unit are not automatically reflected during editing.

Edits are retained even when Expander is closed.

1 Edit mark

When changes are made from the initial state, a yellow edit mark is displayed for each setting value. It disappears when you press the Apply / Cancel button.

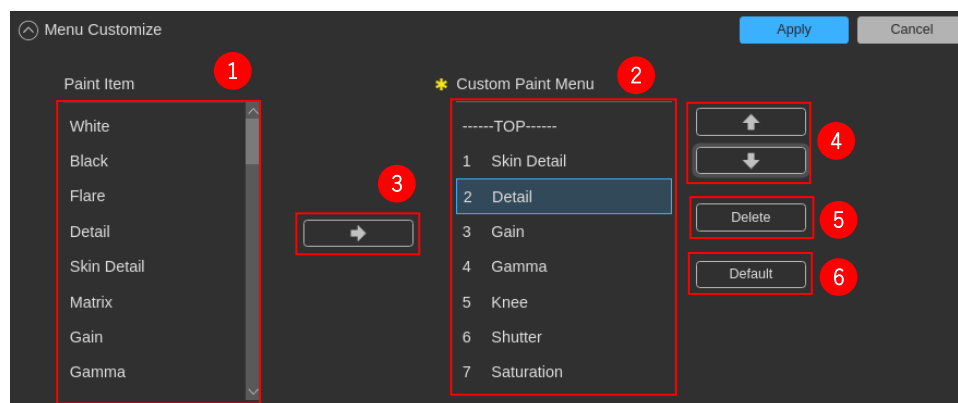
2 Apply button

When you press the button, the settings edited in this function panel are reflected in the operation.

3 Cancel button

Press the button to delete the settings edited in the function panel and reset the Web menu display to the current settings.

## Menu Customize



### 1 Paint Item List

A list of item choices that can be assigned to the Custom Paint Menu. Click an item to select it and activate the item.

### 2 Custom Paint Menu list

A list of items assigned to the Custom Paint Menu. Click an item to select it and activate the item.

### 3 Add Item button

Click to add the selected item in the Paint Item list below the selected item in the Custom Paint Menu list.

If no Paint Item list is selected, no items will be added.

If you want to add the item first, select TOP in the Custom Paint Menu.

### 4 Item Up / Down button

Raise or lower the index of the item selected in the Custom Paint Menu.

It doesn't work for TOP.

### 5 Delete button

Remove the item selected in the Custom Paint Menu from the Custom Paint Menu list.

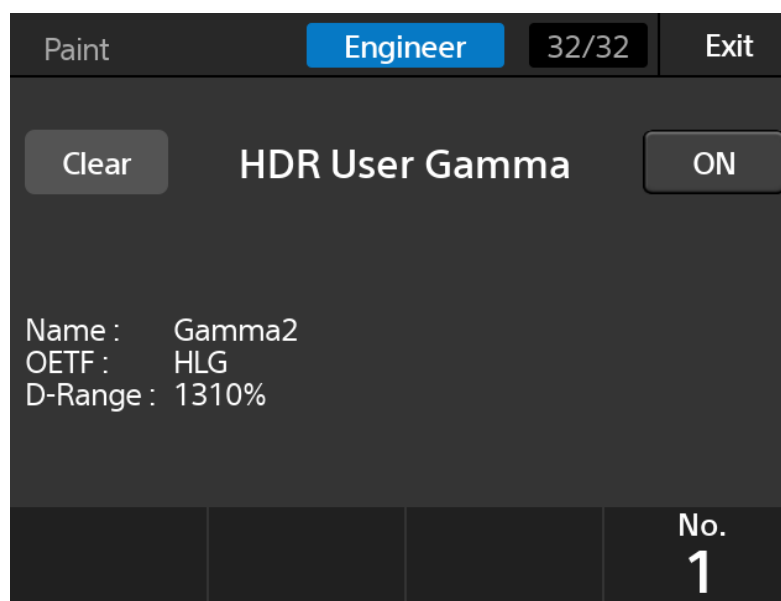
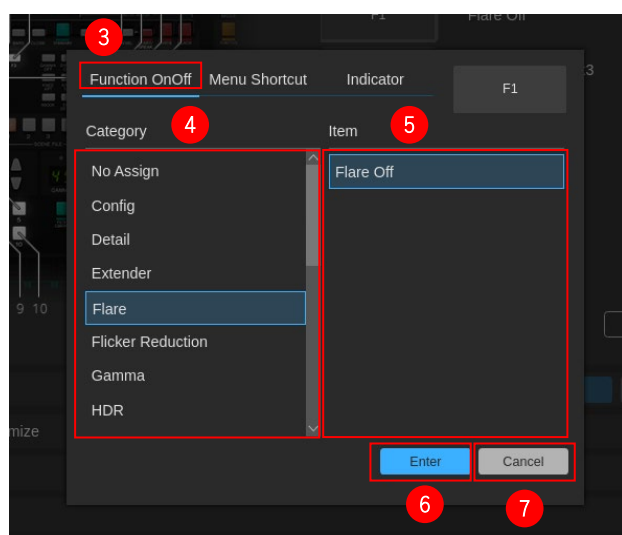
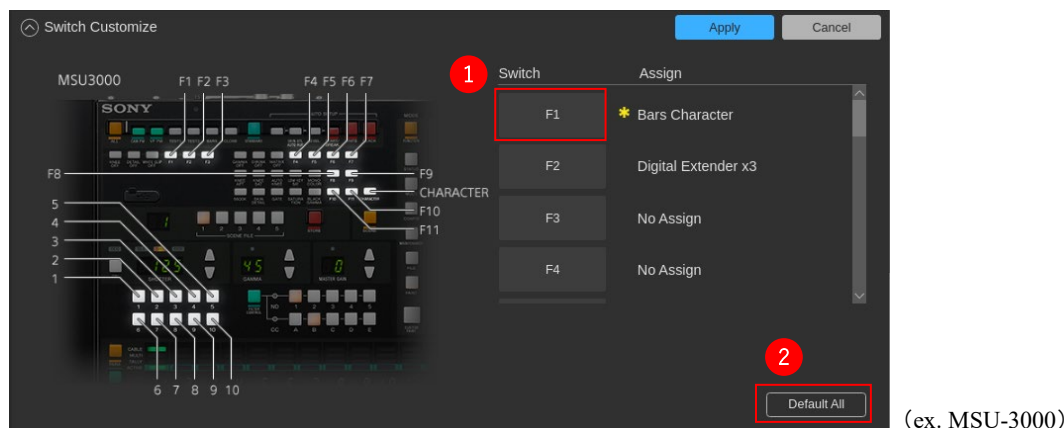
It doesn't work for TOP.

### 6 Default All button

Set the Custom Paint setting to the default value.

## Switch Customize

The illustration of the panel surface displayed on the Web and the number of switches that can be set differ depending on the model of MSU-3000 / MSU-3500 / RCP3500 / RCP-3501.



### 1 Switch button

Switch button that each model has. Click to display the Switch Customize selection modal dialog.

### 2 Default All button

Set the Switch assignment settings to the default values.

### 3 Menu Type tab

A tab to select the Menu Type of the item to be assigned to the Switch. Click to switch.

### 4 Category list

A list of choices for the categories of items to assign to the Switch. Click to select and activate the item.  
In the initial state, the current setting is active. (No automatic scrolling to the current value)

### 5 Item list

A list of choices for items to assign to the Switch. Click to select and activate the item.  
In the initial state, the current setting is active. (No automatic scrolling to the current value)

### 6 Enter button

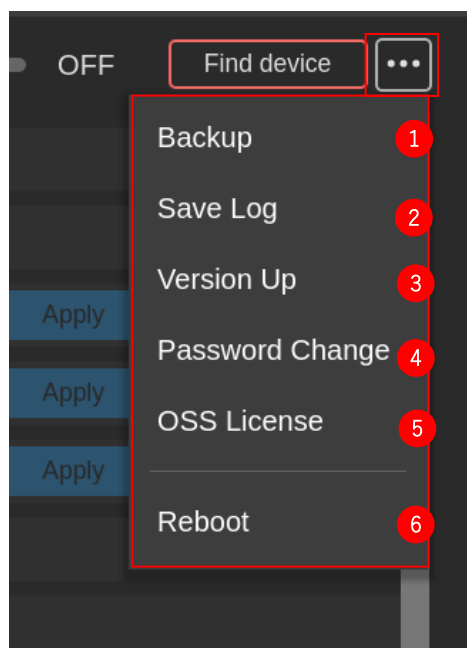
If you click Enter with an item selected, the value selected in the modal dialog is determined as editing data, and the modal dialog closes.

**7 Cancel button**

Click to cancel the changed value in the modal dialog and close the modal dialog.

**Context Menu**

Explain the items that can be selected in the Context Menu. Clicking on an item will bring up the corresponding modal dialog.

**1 Backup**

[Panel Config]

Download to PC button

The Settings of this machine (excluding Network) are backed up to a file on the PC.

Load to Panel button

Restore the file that records the settings (excluding Network) of the actual machine saved on the PC in advance to the actual machine.

[Network Config]

Download to PC button

Network settings are backed up to a file on your PC.

Load to Panel button

Restore the file that records the network settings of this unit saved on the PC in advance to this unit.

If you change the Network settings, you will need to reconnect because the web connection will be lost after the restore.

**2 Save Log**

Download the log file of the actual machine.

### 3 Version Up

Store the package file you want to upgrade in advance on the PC that accesses the Web menu, and upgrade with this function.

During the version upgrade, a screen indicating that the version is being upgraded is displayed in the Web menu.

When the version upgrade is completed, the machine automatically restarts and displays the username and password input screen for accessing the Web menu.

### 4 Password Change

Change the password to access the web menu. The current password is required to change.

### 5 OSS License

Display a list of OSS (Open Source Software) licenses.

### 6 Reboot

Restart the machine.

**[Preparation]**

< USB flash drive>

Version upgrade is executed using a USB flash drive.

<Software File>

File name:

Upgrade file: rcp35xx.pkg

\* Obtain it from Software Download site.

Create a folder having the name shown below in a USB flash drive, and copy the above file in it.

¥MSSONY¥PRO¥CAMERA¥RCP35XX

**[Installation Procedure]**

Refer to the section of “Firmware Update” in the Maintenance Manual.

**[Confirmation / Adjustment]**

When the firmware update is completed, the updated version is displayed on the RCP LCD screen.

Make sure the APP version is V1.30.

You can also check it in Config> RCP> Information> Version.

**[Software History]**

RCP-3500/3501

Tech Memo Number	APP/OS/Updater	SY
Initial release	V1.02	V1.000
HDCM20-034R	V1.11	V1.000
HDCM21-025R	V1.20	V1.000
HDCM21-053	V1.30	V1.000