

Chapter 16 Engineering Setup

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Setup for the Whole System

Carry out operations relating to setup in the Engineering Setup menu.
To access the Engineering Setup menu, press the top menu selection button [ENG SETUP].

For an overview of setup, see “Setup” in Chapter 1 (Volume 1).

Setting the unit ID

When there are two switchers and connected DME units on the same network, it is necessary to set the unit ID on each device, as follows.

| Switcher | ID |
|--------------|----|
| 1st switcher | 1 |
| 2nd switcher | 2 |

| DME | ID |
|---|----|
| DME1 for 1st switcher (channels 1 to 4) | 1 |
| DME2 for 1st switcher (channels 5 to 8) | 2 |
| DME1 for 2nd switcher (channels 1 to 4) | 3 |
| DME2 for 2nd switcher (channels 5 to 8) | 4 |

For more details of how to make the unit ID settings, refer to the installation manual for the particular device.

Network Settings (Network Config Menu)

To make the network settings, use System>Network Config menu.

To display the Network Config menu

In the Engineering Setup menu, select VF1 ‘System’ and HF1 ‘Network Config.’

The status area shows the device ID, and Control LAN and Data LAN IP addresses for each device excluding the DCU.

Making the network settings

Use the following procedure.

- 1 In the System>Network Config menu, press [Auto Config].

This automatically checks all devices (excluding the DCU) connected to the Data LAN.

- 2 Once switch to another menu, then display the Network Config menu again.

Now the status area of the System>Network Config menu shows the results of the automatic check.

Note

Be sure to carry out this operation after reconfiguring the system, or after a software upgrade.

System Settings (System Config Menu)

To make the system settings, use the System>System Config menu.

To display the System Config menu

In the Engineering Setup menu, select VF1 'System' and HF2 'System Config.'

Note

After changing any of the following settings, be sure to press [Execute] to save the new values. If you want to cancel the setting changes without saving them, press [Clear].

Selecting the system operation mode

In the <Operation Mode> group of the System>System Config menu, select one of the following.

Single Proc: Control mode in which the panel controls a switcher and up to two DMEs connected to the switcher.

Single Simul: Control mode in which the panel controls a switcher and a DME connected to the switcher. The operating bank and DME are interlocked. (See "System Setup" in Chapter 1 (Volume 1).)

Dual Simul: Control mode in which the panel controls two switchers and the DME connected to each switcher simultaneously.

Notes

- When operating an MVS-8000 system and a DVS-9000 system in Dual Simul mode, simultaneous operation may not be possible because of differences between the systems in some functions.

- For an MVS-8000 system, SD systems and HD systems store different numbers of frames in frame memory. When operating an SD system and an HD system in Dual Simul mode, use the HD system (which stores fewer frames) as the first system (the system whose switcher ID is 1).

Specifying the switcher controlled by the control panel

Use the following procedure.

- 1 In the System>System Config menu, press the [Panel Assign] button.
The Panel Assign menu appears.
- 2 Select the switcher to be controlled by the selected control panel, as follows.
 - **If there is only one switcher on the network**, in the <1st Switcher> group, set [SWR1] to On, and in the <2nd Switcher> group, set [SWR2] to Off.
 - **If there are two switchers on the same network**, in the <1st Switcher> group, select the switcher to be operated.
When the system operation mode (*see previous item*) is set to [Dual Simul], the switcher status set in <1st Switcher> appears on the control panel.
- 3 To set the selected control panel as tally control master panel, press [Tally Master], turning it on.

If there are multiple panels and processors, the control panel for which [Tally Master] is set to On carries out tally control for the whole system.

Note

When there are multiple control panels, make sure that one of them has [Tally Master] set to On. When you change the master panel, be sure to copy and save the setup tally (TLY) and router (RTR) data in the File menu, and make the same settings for other panels.

Specifying the DME connected to the switcher

Use the following procedure.

- 1 In the System>System Config menu, press [Switcher Assign].
The Switcher Assign menu appears.
- 2 Using either of the following methods, select the switcher to which the settings apply.



- In the list appearing in the menu, press the desired device name.
- Press the arrow keys to scroll the reverse video cursor.

The selected switcher appears in reverse video.

If there is only one switcher on the network, carry out the SWR1 setting (for the first switcher) only.

3 Make the DME settings as follows.

- **When making DME settings for SWR1 (the first switcher)**, for the first DME, select [DME1] in the <1st DME> group. For the second DME, select [DME2] in the <2nd DME> group. When a second DME is not connected, turn all buttons in the <2nd DME> group off.
- **When making DME settings for SWR2 (the second switcher)**, for the first DME, select [DME3] in the <1st DME> group. For the second DME, select [DME4] in the <2nd DME> group. When a second DME is not connected, turn all buttons in the <2nd DME> group off.

Setup in “Dual Simul” mode

When the system operation mode (*see page 276*) is set to “Dual Simul,” the following setting is required for setup of the two switchers and connected DME units.

In the <Setup Target> group, set the [System 1] or [System 2] button to On, then carry out the setup. You can also set both to On, and make the settings simultaneously on the two systems.

Setting the Signal Format and Screen Aspect Ratio (Format Menu)

To set the format, that is, the frame frequency and number of scan lines handled by each device, and the screen aspect ratio, use the System>Format menu.

To display the Format menu

In the Engineering Setup menu, select VF1 ‘System’ and HF3 ‘Format.’

Note

After changing any of the following settings, be sure to press [Execute] to save the new values. If you want to cancel the setting changes without saving them, press [Clear].

Note that since the [Execute] button is in the System>Format menu, when you make settings in a submenu, it is essential to remember to return to the System>Format menu and press the [Execute] button to save.

When using 720p format (on a 4M/E or 3M/E system)

On a 4M/E system or a 3M/E system with a board with multi-format support, it is not possible to use an M/E reentry signal in an overlaid manner on the key bus or utility 1 bus even when not using the color corrector.

Example 1: When M/E-1 is selected on the M/E-2 background A bus (or background B bus, key bus, utility 1 bus, or utility 2 bus), it is not possible to select M/E-2 on the M/E-3 key bus or utility 1 bus.

Example 2: When M/E-2 is selected on the M/E-3 background A bus (or background B bus, key bus, utility 1 bus, or utility 2 bus), it is not possible to select M/E-3 on the PGM/PST key bus or utility 1 bus.

In the case of a 3M/E system, by setting bit 1 of switch S101 on the CA-44 board to the “Off” position, you can remove this restriction. Note, however, that this slightly reduces the input window.

Setting the signal format

Use the following procedure.

- 1** In the <Frame/Field Rate> group of the System>Format menu, select the system operating frequency.

For more details, see “System Setup” in Chapter 1 (Volume 1).

- 2** Press [Active Line/Aspect].

The Active Line/Aspect menu appears.

The status area shows the number of active scan lines and screen aspect ratio for the switcher and connected DME(s).

- 3** In the <Active Line> group, select the number of active scan lines.

The number of scan lines that can be selected depends on the operating frequency selected in step **1** and the switcher model.

Setting the screen aspect ratio

Use the following procedure.

- 1** In the System>Format>Active Line/Aspect menu, select one of the following from the <Screen Aspect> group.
 - 16:9
 - 4:3
 - Independent: Set the screen aspect ratio separately for M/E, P/P, and USER on the switcher, and for each channel independently on the DME.
- 2** If you selected [Independent] in step **1**, select from the following.

Switcher Aspect: Make the setting for the switcher.

DME Aspect: Make the setting for the DME.

A menu appears according to the selection.

- 3** Carry out either of the following, depending on the selection you made in step **2**.

When you selected [Switcher Aspect]: In each of the <M/E-1>, <M/E-2>, <M/E-3>, <P/P>, and <USER> groups, select either [16:9] or [4:3].

When you selected [DME Aspect]: For each of the <CH1> to <CH4> groups, select either [16:9] or [4:3].

Switching the input reference signal for HD system

In the <Ref Input Format> group of the System>Format menu, switch the input reference signal selection.

- Tri Sync
- BB

For details, see “System Setup” in Chapter 1 (Volume 1).

Selecting the State After Powering On (Start Up Menu)

To set the initial state at start-up, use the System>Start Up menu.

Note

It is not possible to set the DCU state at start-up, but its settings can be saved in the control panel.

To display the Start Up menu

In the Engineering Setup menu, select VF1 ‘System’ and HF4 ‘Start Up.’

The status area shows the current start-up mode settings of each device.

Selecting the state at start-up

Use the following procedure.

- 1** In the status area of the System>Start Up menu, select the device to which the settings are to apply.
- 2** In the <Start Up Mode> group, select one of the following modes.

Resume: When this is on, Resume mode is enabled.

Custom: When this is on, Custom mode is enabled.

For information about Resume mode and Custom mode, see “System Setup” in Chapter 1 (Volume 1).

Note

The Resume mode is only valid when a switcher or control panel is selected for the setting. In this case, the initial status of the control panel applies only to the key bus delegation button settings.

- 3** When Custom mode is selected, in each of the <Setup> group and <Initial Status> group, select one of the following.

User: When this is on, user-defined settings are used for the Setup or Initial Status settings. For the method of saving the user-defined settings, *see the next item*.

Factory: When this is on, factory default settings are used for the Setup or Initial Status settings.

- 4** To confirm the settings, press [Execute]. If you want to cancel the setting changes without saving them, press [Clear].

When [Execute] is pressed, a confirmation message appears.

- 5** Select [Yes].

The start-up state settings are saved.

Saving user-defined settings

To save the Setup settings

Use the following procedure.

- 1** After selecting the devices to which the settings apply to, in the System>Start Up menu, press [Setup Define].

A confirmation message appears.

- 2** Press [Yes].

This saves the setup settings for the selected devices in non-volatile memory within the respective devices.

For details about the settings which will be saved, see “Data Saved by [Setup Define] and [Initial Status Define]” (page 582).

To save the Initial Status settings

Use the following procedure.

- 1 After selecting the devices to which the settings apply to, in the System>Start Up menu, press [Init Status Define].

A confirmation message appears.

- 2 Press [Yes].

This saves the initial status settings other than the “setup” settings for the selected devices in non-volatile memory within the respective devices. For the control panel, only the settings of the key bus delegation buttons are saved.

For details about the settings which will be saved, see “Data Saved by [Setup Define] and [Initial Status Define]” (page 582).

Setting automatic loading of register data at power on (autoload function)

To have specified data read in at power on, in the System >Start Up menu, press [Power On File Load], turning it on.

This enables the autoload function.

When the autoload function is enabled, a directory “PWON_LD” appears in the corresponding File menu.

About saving data which can be loaded by the autoload function, see “Saving Files Recalled by Autoload” (page 443).

Reset and Initialization (Initialize Menu)

To carry out a reset or memory initialization for a device, use the System>Initialize menu.

To display the Initialize menu

In the Engineering Setup menu, select VF1 ‘System’ and HF5 ‘Initialize.’

The status area shows the current start-up mode settings.

Resetting the device and initializing memory

Use the following procedure.

- 1 In the status area of the System>Initialize menu, select the device to which the settings are to apply.
- 2 In the <Initialize> group, select one of the following modes.

Reset: Reset the device.

All Clear: Initialize memory.

3 Press [Execute].

A confirmation message appears.

4 Select [Yes].

Depending on the selection in step **2**, the following is the result.

- When you selected [Reset], a reset is applied to the device causing it to be restarted in the start-up state.
- When you selected [All Clear], all memory in the device is cleared, including snapshots, keyframe effects, setup, and so on, and the device returns to its factory default settings. However, the Network Config, Format, Start Up, and Date/Time settings are not initialized.

Installation and Device Setup (Install/Unit Config Menu)

To install software or firmware in a device, use the System>Install/Unit Config menu.

To display the Install/Unit Config menu

In the Engineering Setup menu, select VF1 'System' and HF6 'Install/Unit Config.'

The status area shows the version of the software and the firm ware installed in each device.

Installing software

Use the following procedure.

1 Insert the memory card holding the software into the memory card slot.

2 In the Install/Unit Config menu, press [Install].

The System>Install/Unit Config>Install menu appears; the status area shows the following information.

Upper list: For each connected device, this shows the device name, current software version (Current), and the latest version that can be installed (Install, Title).

OK: Installation already completed.

On: For installation, but not completed.

Error: An error occurred during installation.

Cancel: Installation canceled.



Lower list: For the device selected in the upper list, this shows an automatically detected list of software that can be installed on the particular device. Also, software selected as a candidate for installation in the upper list is marked in the lower list with an asterisk.

- 3** If you are satisfied with the currently installed version of all items in the upper list, skip to step **6**.

To change the items to be installed, use any of the following methods to select the relevant device.

- Press directly on the list in the status area.
- Use the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|----------------|
| 1 | Device | Device selection | 1 and upwards |

The display of the lower list changes according to the selected device.

To display all related software

Press [Display All Software], turning it on.

Not just the automatically detected software, but the names of all related software for the selected device appear.

- 4** In the lower list, select the software you want to install.

- Press directly on the list in the status area.
- Use the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------|----------------|
| 3 | No | Software selection | 1 and upwards |

- 5** Press [Set].

The selection is reflected under “Install” and “Title” in the upper list.

- 6** Press [Install].

The “Install” box shows “On,” confirming that this is to be installed. To cancel this installation setting, press “Install” once more, making the box blank.

- 7** Repeat steps **3** to **6**, to confirm all software to be installed.

- 8** Press [Execute].

A confirmation message appears.

9 Press [Yes].

This carries out the installation, and when it completes normally, the “Install” box shows “OK.”

Displaying installation details

In the System>Install/Unit Config menu, press [Detail Information]. This accesses the Detail Information menu, and displays the detailed information on the software and firmware installed in the currently selected device.

Making settings required to use the software

| | |
|-----------|--|
| BZS-8250 | Simple P/P Software |
| BZDM-9050 | Texture Lighting Software (for MVE-9000) |
| BZS-8050 | Editing Control Software ^{a)} |

a) This can be used only with a CCP-8000 series control panel equipped with the MKS-8010A.

To use the software listed above, you are required to enter an install key which validates the software. (If the software has been factory installed, the install key is not required.)

For the method of obtaining an install key, contact your Sony representative. To obtain a key, you may be required to submit the unique device ID of the switcher you are using. You can check the unique device ID in the Install/Unit Config menu of the switcher, using the following procedure.

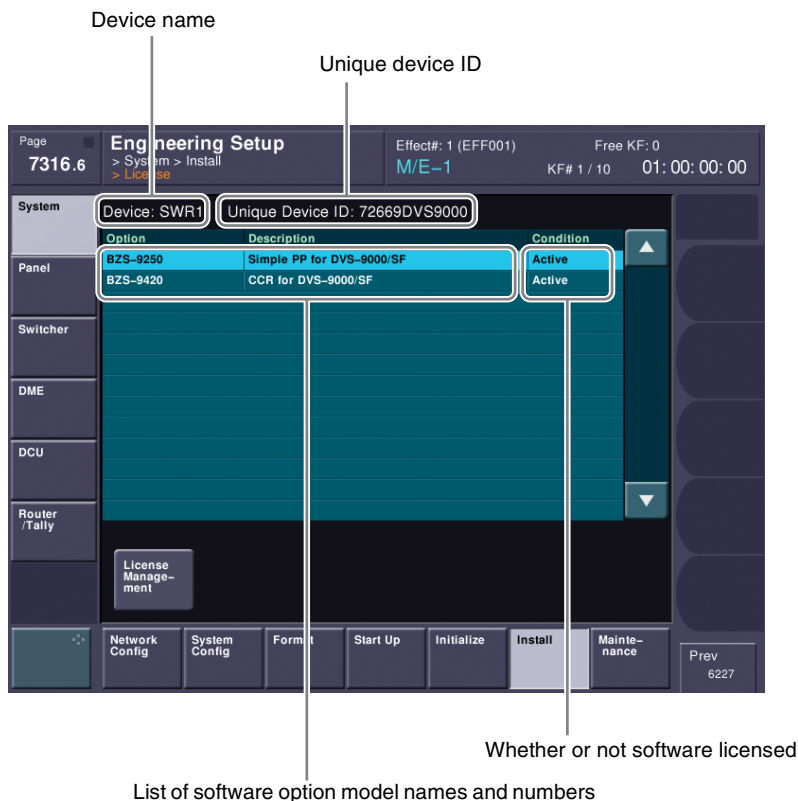
To display the unique device ID

To check the unique device ID, carry out the following procedure.

- 1 In the System>Install/Unit Config menu, use either of the following methods to select the device for which you want to register the license.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.

2 Press [License].

The License menu appears as follows.



To enter the install key

When you have the install key, carry out the following procedure.

- 1 In the System>Install/Unit Config menu, use either of the following methods to select the device for which you want to register the license.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
- 2 Press [License].
The License menu appears.
- 3 Press directly on the name of the software you want to license (the Condition box is blank).
- 4 Press [License Management].

The License Management menu appears.

5 Press [Activate License].

A keyboard window appears.

6 Enter the 16-character install key you have been given, and press [Enter].

A license registration completed message appears.

7 Press [OK].

The status area Condition box shows “Active.”

8 Using either of the following methods, restart the device.

- In the System>Initialize menu, select only the device for which you registered the license, and press [Reset] in the <Initialize> group.
- Power off and on again.

After restarting, the licensed software is now available for use.

(In case it becomes necessary to cancel the license registration, you can use the following procedure.)

To cancel the license registration

Carry out the following procedure.

1 In the System>Install/Unit Config menu, use either of the following methods to select the device for which you want to cancel the license registration.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.

2 Press [License].

The License menu appears.

3 Press directly on the name of the software for which you want to cancel the license registration (the Condition box shows “Active”).

4 Press [License Management].

The License Management menu appears.

5 Press [Deactivate License].

A confirmation message appears.

6 Press [Yes].

A license registration canceled message appears.

7 Press [OK].

The status area Condition box showing “Active” changes to blank.

8 Using either of the following methods, restart the device.

- In the System>Initialize menu, select only the device for which you registered the license, and press [Reset] in the <Initialize> group.
- Power off and on again.

After restarting, the software for which the license registration has been canceled is no longer available.

Adding user texture patterns

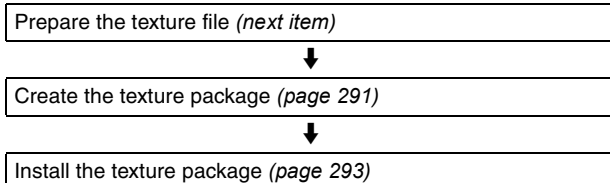
You can add user created texture patterns to the repertory of texture patterns with which the spotlighting function enables the light falls on the image surface.

Note

This function is not supported on the MVE-8000/8000A.

For details of spotlighting, see page 126, and for details of texture patterns, see page 128.

The procedure for adding a texture pattern is as follows.


To prepare a texture file

Create a texture file meeting the following conditions, and save it on a memory card.

File format: Windows bmp (“bitmap”) (extension: bmp, 24-bit RGB)

File name: alphanumeric (maximum 8 characters) + extension (bmp)

Example: wood_01.bmp

Image size (horizontal × vertical): 128 × 128 to 1024 × 1024 pixels

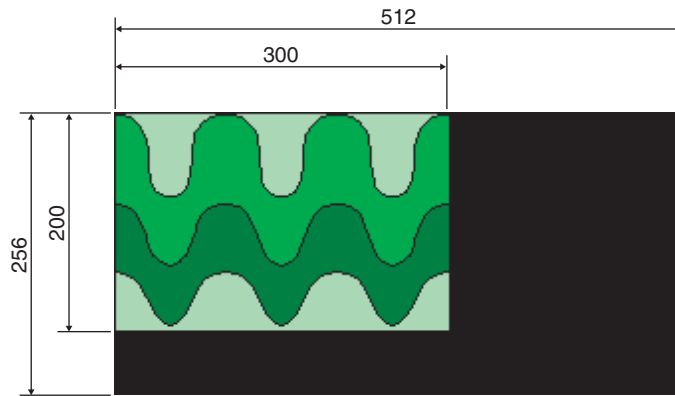
The maximum number of texture files that can be handled by the system is related to the image size of the texture files, as shown in the following table (when all images are the same size).

| Dimension (horizontal) \ Dimension (vertical) | Maximum number of texture files handled | | | |
|---|---|------------|------------|-------------|
| | 128 pixels | 256 pixels | 512 pixels | 1024 pixels |
| 128 pixels | 64 | 32 | 16 | 8 |
| 256 pixels | 32 | 16 | 8 | 4 |
| 512 pixels | 16 | 8 | 4 | 2 |
| 1024 pixels | 8 | 4 | 2 | 1 |

Notes

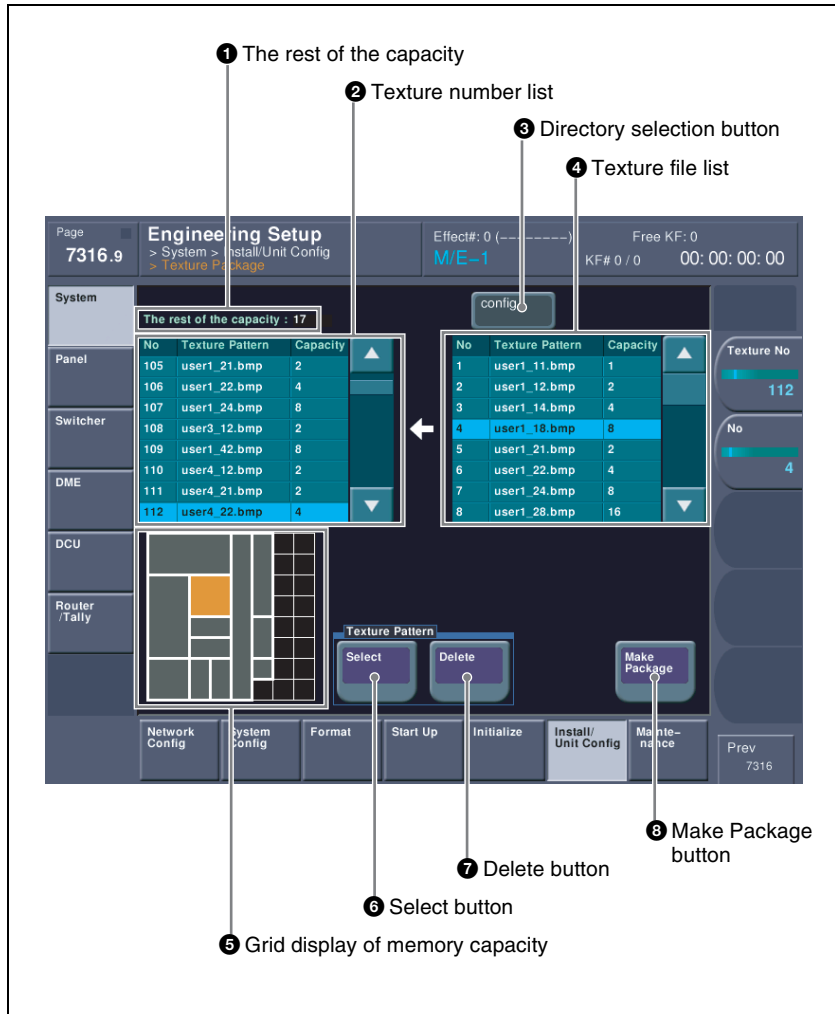
- Different image sizes can be combined, but this affects the total number of texture files that can be handled.
- The number of texture files that can be handled may be reduced, depending on the way in which they are stored in memory (see “Texture Package menu” (page 289)).
- For a texture file with an image size outside the specification, the minimum enclosing image size is applied (see table above), and the region below and to the right is filled with black.

Example: a 300×200 pixel texture file is treated as 512×256 pixels.



Texture Package menu

To create user texture patterns, use the Texture Package menu.



❶ The rest of the capacity (available memory space)

This shows an available memory space in units of 128×128 pixels (a maximum of 64 units of memory space is available).

❷ Texture number list

This shows the texture numbers (101 to 164) registered in the texture package. The list Capacity shows the file size in units of 128×128 pixels (a total maximum of 64 units of texture files can be registered).

③ Directory selection button

By pressing this button to display the popup window, you can select a directory on the memory card.

④ Texture file list

This shows the texture files stored on the memory card.

If a texture file is stored in a directory, press the directory selection button and select the directory in the popup window, to show a list of files.

The list Capacity shows the file size in units of 128×128 pixels.

⑤ Grid display of memory capacity

This shows how the texture files are stored in memory (an 8×8 grid, of 64 squares, each equivalent to 128×128 pixels).

And this shows the location where the texture files are stored in memory by bold frames. The grid for the texture file selected in the texture number list is shown in amber.

⑥ Select button

Pressing this button assigns the texture file selected in the texture file list to the number selected in the texture number list.

⑦ Delete button

Pressing this button deletes the texture file assigned to the number in the texture number list.

⑧ Make Package button

Pressing this button creates the texture package.

To create a texture package

To use a user-provided texture pattern with the spotlighting function, it is necessary to convert the texture files to vector files for bump mapping. This operation is referred to as “creating a texture package.”

Use the following procedure.

- 1** Insert the memory card holding the texture file into the memory card slot.
- 2** In the Engineering Setup menu, select VF1 ‘System’ and HF6 ‘Install/Unit Config.’

The Install/Unit Config menu appears; the status area shows the version information for the software installed on the various devices.

- 3** Using any of the following methods, select a DME for which the spotlighting license is valid.
 - Press directly on the list in the status area.

- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

4 Press [Texture Package].

Note

If you select a device for which the spotlighting license is not enabled, then [Texture Package] is not enabled.

The System>Install/Unit Config>Texture Package menu appears.

For details of the Texture Package menu, see page 289.

5 In the texture number list, select the number for which you want to register the texture package, by any of the following methods.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|--------------------------|----------------|
| 1 | Texture No | Texture number selection | 101 to 164 |

6 In the texture file list, select the texture file by any of the following methods.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------|-----------------------------|
| 2 | No | Texture file selection | 1 and upwards ^{a)} |

a) The range of the setting values depends on the number of saved files on a memory card.

7 In the <Texture Pattern> group, press [Select].

This assigns the texture file selected in step **6** to the number selected in step **5**, and updates the texture number list.

The grid display of memory capacity shows the location where the texture files are stored in memory by bold frames. The grid portion for the texture file selected in the texture number list is shown in amber.

8 Repeat steps **5** to **7**, to assign all of the texture files to texture packages.

Notes

- If you assign a texture file that is already in the texture number list to a different texture number, then the previous assignment is deleted. (It is not possible to assign the same texture file to two or more different texture numbers.)
- In the following cases, texture file assignment is not possible.
 - If there is no available memory space (“The rest of the capacity:0” appears)
 - If the selected texture file is too large to fit in the available memory space

To delete a texture file assignment

Select the texture file (multiple selections are not possible) you want to delete in the texture number list, and in the <Texture Pattern> group press [Delete].

- 9** To create the texture package, press [Make Package].

A confirmation message appears.

- 10** Select [OK].

The texture package is created in the same location that the texture file is stored on the memory card (extension: zsp, file name generated automatically).

Notes

- If you remove the memory card on which the texture file is stored, it is not possible to create the texture package.
- If a texture package is already present on the memory card, it is overwritten by a new texture package.
- If you carry out steps **9** and **10** without having assigned even one texture file, it is not possible to create a texture package.
- If there is insufficient space on the memory card to store the texture package, an error message appears, and the process is aborted. If this happens, delete unwanted files from the memory card using your computer, so that there is enough free space on the memory card, and repeat the process. (As a guide, the space required is approximately equal to total number of bytes of the texture files assigned in steps **5** to **8**.)

To Install the texture package

Use the following procedure.

- 1** Insert the memory card holding the texture package into the memory card slot.

2 In the Engineering Setup menu, select VF1 ‘System’ and HF6 ‘Install/Unit Config.’

The Install/Unit Config menu appears; the status area shows the version information for the software installed on the various devices.

3 Press [Install].

The System>Install/Unit Config>Install menu appears; the status area shows the following information.

Upper list: For each connected device, this shows the device name, current software version (Current), and the latest version that can be installed (Install, Title).

OK: Installation already completed.

On: For installation, but not completed.

Error: An error occurred during installation.

Cancel: Installation canceled.

Lower list: For the device selected in the upper list, this shows an automatically detected list of software that can be installed on the particular device. Also, software selected as a candidate for installation in the upper list is marked in the lower list with an asterisk.

4 Using any of the following methods, select in the upper list a DME for which the spotlighting license is valid.

- Press directly on the list in the status area.
- Use the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|----------------|
| 1 | Device | Device selection | 1 and upwards |

5 Press [Display All Software], turning it on.

The lower list shows the texture packages.

6 Using any of the following methods, select the texture package you want to install from the lower list.

- Press directly on the list in the status area.
- Use the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------|----------------|
| 3 | No | Package selection | 1 and upwards |

7 Press [Set].

The selection is reflected under “Install” and “Title” in the upper list.

8 Press [Install].

The “Install” box shows “On,” confirming that this is to be installed. To cancel this installation setting, press “Install” once more, making the box blank.

9 To carry out the installation, press [Execute].

A confirmation message appears.

10 Select [Yes].

This carries out the installation, and when it completes normally, the “Install” box shows “OK.”

Switching the color correction function

Note

After making the setting, be sure to finally press [Execute] to confirm the setting. To cancel the setting during the process, press [Clear].

Use the following procedure.

1 In the System>Install/Unit Config menu status area, select SWR1 or SWR2, where the color correction function is installed.

2 Press [Unit Config].

- The Unit Config menu appears.
- The status area shows the device name and the currently selected color correction function name.

3 In the <CCR Config> group, select either of the following.

Spot CCR: Enable the spot color adjustment function.

Secondary CCR: Enable the secondary color correction function.

4 Press [Execute].

A confirmation message appears.

5 Select [Yes].

- This resets the device and switches the function.
- The color correction settings are all reinitialized.

System Maintenance (Maintenance Menu)

The system date and time, memory card and USB related settings, setup menu lock settings, and so on, appear in the System>Maintenance menu.

To display the Maintenance menu

In the Engineering Setup menu, select VF1 'System' and HF7 'Maintenance.' In the status area, the current date and time, and details of the memory card appear.

Setting the date and time

For system date and time settings, use the following procedure.

- 1 With the knobs, adjust the following parameters.

Parameter group [1/2]

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------|----------------|
| 1 | Hour | Hour | 0 to 23 |
| 2 | Min | Minute | 0 to 59 |
| 3 | Sec | Second | 0 to 59 |

Parameter group [2/2]

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------|----------------|
| 1 | Month | Month | 1 to 12 |
| 2 | Day | Day | 1 to 31 |
| 3 | Year | Year | 2000 to 2037 |

The set date and time appears in the "Set" box in the status area.

- 2 Press the [Set Date/Time] button.

This sets the current time to the date and time set in step 1, and the setting in the "Current" box of the status area changes accordingly.

Displaying memory card information

To display the memory card capacity and device name, use the following procedure.

- 1 Insert the memory card into the memory card slot.
- 2 In the <USB Storage Device> group of the System>Maintenance menu, press [Refresh].

Formatting a memory card

To format a memory card, use the following procedure.

Note

Format a memory card before using it for the first time.

- 1** Insert the memory card in the memory card slot.
- 2** In the System>Maintenance menu, using either of the following methods, select the USB device.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
- 3** In the <USB Storage Device> group, press [Format].
A confirmation message appears.
- 4** To carry out the formatting, press [YES].
This formats the memory card.

Carrying out the primary setting

To specify a USB device with a storage device connected as a primary device, use the following procedure.

Note

Without this setting, you cannot use the “Memory Card” item in the File menu to access a memory card on a storage device connected to the USB device.

- 1** In the System>Maintenance menu, using any of the following methods, select the USB device you want to set as primary.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|----------------------|----------------|
| 5 | Mount Point | USB device selection | 1 to 18 |

- 2** In the <USB Storage Device> group, press [Set Primary].

Reloading a USB driver

To reload a USB driver, in the System>Maintenance menu, press [Reload USB Driver].

Note

If even after this operation the memory card is not recognized, remove the memory card and reinsert it, then try again.

Initializing the hard disk

If a file system corruption error has occurred on the hard disk, you should initialize the hard disk.

Use the following procedure.

- 1 In the <HDD> group of the System>Maintenance menu, press [HDD Format].

Note

When the hard disk is operating normally, pressing [HDD Format] has no effect.

An initialization confirmation message appears.

- 2 To execute the initialization operation, press [Yes]. To cancel, press [No].

If you have pressed [Yes], the hard disk initialization operation is executed, and a finished message appears. If you have pressed [No], the initialization operation is canceled, and the System>Maintenance menu appears again.

- 3 Press [OK].

The processor is reset.

Locking the setup menu settings

To protect the data, you can inhibit operations in selected setup menus. Use the following procedure. (It is not possible to lock the Setup Operation Lock menu.)

- 1 In the System>Maintenance menu, press [Setup Operation Lock].

The Setup Operation Lock menu appears.

- 2 In the <VF Group> group, select the group including the desired menu.

The status area shows a list of menu numbers and menu names in the selected group.

Subsequent lock operations apply within the group selected here.

- 3** Using any of the following methods, select the menu or the set of menus as candidates for the locking operation.


- Press directly on the list in the status area.
- Use the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | No | Selection of a menu by its number in the list | 1 and upwards |
| 3 | Num | Selection of number of menus in the list | 1 and upwards |

- To select all setup menus within the selected group, press [ALL].

You can also select a menu while it is open. *For details, see the section “To select an opened setup menu for locking” (page 300).*

- 4** Press [Lock Item Select].

This makes the selected menus candidates for locking, and a padlock icon appears in the “Lock” box (in the unlocked state) .

Note

If there are already one or more locked menus, selection of lock candidates is not possible.

To deselect a lock candidate

After selecting a menu, press [Lock Item Select] once more, to clear the Lock box.

To deselect all lock candidates in the selected VF group


Press [Lock Item All Clear].

- 5** Repeat steps **2** to **4**, to select all of the lock candidates.

- 6** Press [Lock].

A keyboard window appears.

- 7** Enter the password with a maximum of 16 characters, and press [Enter].

If the password is correct, the menus selected in the list of candidates are all locked. The padlock icon changes to the locked state .

Releasing the lock

When a lock is already applied, use the following procedure.



- 1** In the System>Maintenance>Setup Operation Lock menu, press [Lock].
A keyboard window appears.
- 2** Enter the password.
If the password is correct, the lock is released, and the padlock icon disappears.

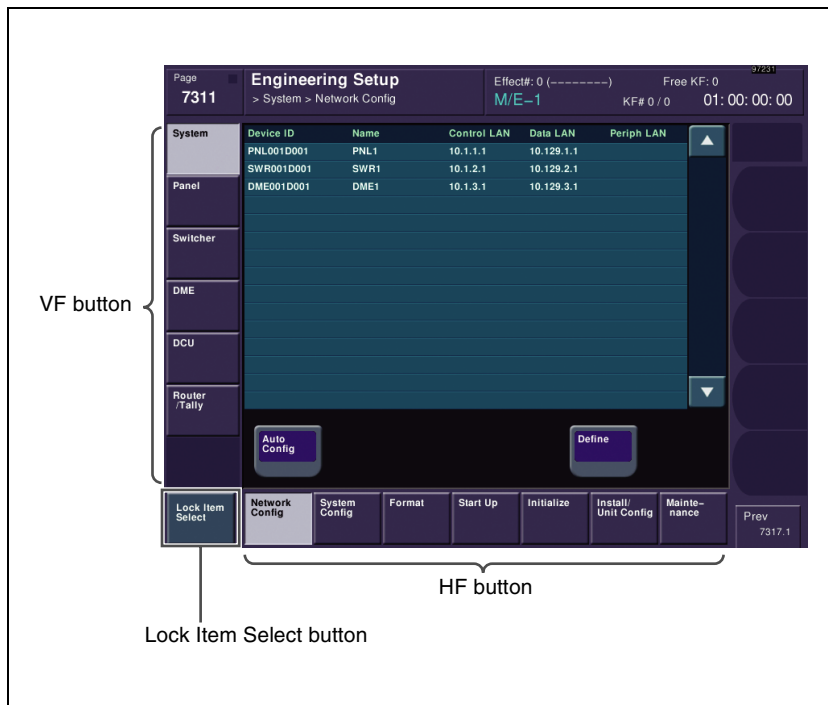
To change the lock password

Use the following procedure.

- 1** In the System>Maintenance>Setup Operation Lock menu, press [Change Password].
A confirmation message appears.
- 2** Press [Yes].
A keyboard window labeled “Old Password” appears.
- 3** Enter the old password, and press [Enter].
If the password is correct, a keyboard window labeled “New Password” appears.
- 4** Enter the new password, and press [Enter].
- 5** Enter the new password once more, for confirmation.
This sets the new password.

To select an opened setup menu for locking

With the menu you want to lock open, press Lock Item Select button at the lower left.



The Lock Item Select button turns red, and a padlock icon appears.

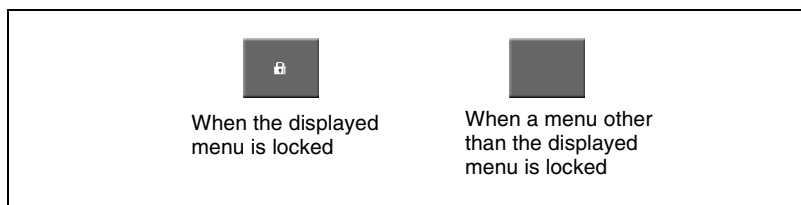


This selection is reflected in the lock candidate list in the Setup Operation Lock menu.

Note

If there are already one or more locked menus, selection of lock candidates is not possible.

In this case, the indication of the Lock Item Select button changes as follows.



If you want to select lock candidates, first remove the lock in the Setup Operation Lock menu.



Setup Relating to Operations From the Control Panel

Overall Control Panel Settings (Config Menu)

To carry out the overall control panel settings, use the Panel>Config menu.

To display the Config menu

In the Engineering Setup menu, select VF2 'Panel' and HF1 'Config.'

The status area shows the "Bank numbers 1 to 4" (physical locations) of the M/E and PGM/PST banks, the allocated bank names, and whether or not operation is enabled.

Interchanging the bank order or disabling operation

Use the following procedure.

- 1** In the Panel>Config menu, select the Bank you want to set, using any of the following methods.
 - Press directly on the status area display.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | Bank | Select the position of the bank you want to set | 1 to 4 |

The Bank selection here indicates the physical position on the control panel, numbering from the top as the 1st Row, 2nd Row, 3rd Row, and 4th Row.

- 2** Select the bank that you want to assign to the selected Bank number in the <M/E Assign> group.

The status area shows the interchanged state of the banks.

Notes

- It is not possible to assign the same M/E logical bank to more than one physical bank. Be sure to make different M/E assignments.

- When the bank order is changed, the state of region selection button assignment in the numeric keypad control block also changes correspondingly.

3 For the selected Bank number, in the <M/E Operation> group, select one of the following.

Enable: Enable panel display and operation of the bank.

Disable: Enable only panel display, and disable operation of the bank.

Inhibit: Disable both the panel display and operation of the bank.

Note

When this is set to Inhibit, snapshots of the bank are not recalled.

Assigning two M/E banks to one M/E bank

Use the following procedure.

1 In the Panel>Config menu, select the M/E bank for which you want to make the setting.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--|----------------------|
| 1 | Bank | Selection of position of bank for which you want to make the setting | 1 to 4 ^{a)} |

a) Depends on the center control panel configuration. When the bank closest to the operator (the 4th row of a 4-M/E system) is selected, [Dual M/E Assign] is disabled.

For example, if the furthest bank from you is assigned to M/E-1, and you want no shift button operation for the bank, select 1 (1st Row) for Bank.

2 Press [Dual M/E Assign].

This assigns the furthest M/E bank from you to the unshifted (shifted) cross-points and the M/E bank in front of it to the shifted (unshifted) cross-points. For fader lever operations, only the M/E bank closer to you is enabled.

The shift/non-shift assignment is set by [Dual M/E Xpt Swap]. For more details, see the next section, “Interchanging shifted and non-shifted operations for a dual M/E.”

To return to the original assignment

Interchange the bank order (see page 303).

Interchanging shifted and non-shifted operations for a dual M/E

Use the following procedure.

- 1 In the Panel>Config menu, select the M/E bank for which the dual M/E setting is made.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--|----------------------|
| 1 | Bank | Bank to be selected for dual M/E setting | 1 to 4 ^{a)} |

a) Depends on the center control panel configuration.

- 2 Press [Dual M/E Xpt Swap], toggling it on or off.

On: The lower M/E bank is non-shifted, and the higher M/E bank is shifted.

Off: The lower M/E bank is shifted, and the higher M/E bank is non-shifted.

Assigning the key delegation in the downstream key control block

As an example, to assign key 4 of the M/E-1 bank to key delegation button 1 of the downstream key control block 1, use the following procedure.

- 1 In the Panel>Config menu, press the [DSK Fader Assign].
The DSK Fader Assign menu appears.
- 2 Directly press on the indications in the status area, to select the downstream key control block for which you want to make the setting, and select the key delegation.
Here, press on the intersection of the “1st Module” column and “Key1 Assign” row.
- 3 In the <M/E Select> group, select the bank of the key you want to assign.
Here, select [M/E-1] as an example.
- 4 In the <Key Link Select> group, select the key you want to assign.
Here, select [Key4] as an example.
- 5 To disable the fader lever of the selected downstream key control block, select [Disable] in the <Fader Assign> group.

To enable the fader lever, select one of the following in the <Fader Assign> group, determine the key to which the fader lever operation applies.

All: Key selected with one of the key delegation buttons

Key1: Key assigned to key delegation button 1 ([DSK1] button)

Key2: Key assigned to key delegation button 2 ([DSK2] button)

Key3: Key assigned to key delegation button 3 ([DSK3] button)

Key4: Key assigned to key delegation button 4 ([DSK4] button)

Linking switcher bus and router destination

To provide links between the switcher bus and router destination, make the following settings as required.

Matrix selection: Select the target of link setting from the eight matrices (1 to 8).

Matrix position definition: Set the start address and level for the source and destination on the S-Bus.

Link table setting: Link a switcher cross-point button and matrix source.

Link bus setting: Link a switcher bus address and router destination.

To select a matrix number

Use the following procedure.

- 1 In the Panel>Config menu, press [External Bus Link].

The External Bus Link menu appears.

The status area shows the current link status.

- 2 Turn the knobs to select the matrix.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---------------|----------------|
| 1 | Link No | Link number | 1 to 64 |
| 2 | Link Matrix | Matrix number | 1 to 8 |

In the status area, the color of the selected part changes.

- 3 Press [Link Matrix Set].

This confirms the matrix selection and the selected part in the status area returns to the previous color.

To delete a link

With the link selected, press [Clear].

To define the position of a matrix

Specify where in the 1024 × 1024 S-Bus space the link matrix is to be provided, by setting the source and destination start address.

For the matrix selected in the External Bus Link menu, use the following procedure.

- 1** In the Panel>Config>External Bus Link menu, press [Link Matrix Adjust].

The Link Matrix Adjust menu appears.

The status area shows the status of the currently selected matrix, and a list of the source and destination start addresses that can be selected.

In this menu too, you can use the knobs to select the link for the setting.

- 2** Using any of the following methods, define the position of the matrix to be linked.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---------------------------|----------------|
| 2 | Source | Source start address | 1 to 897 |
| 3 | Destination | Destination start address | 1 to 897 |
| 4 | Level | Level | 1 to 8 |

- 3** To confirm a source address selected in step **2**, press [Source Set], to confirm a destination address press [Destination Set], and to confirm a level press [Level Set].

This confirms the selection, which is reflected in the status area.

To set a link table

For the link selected in the External Bus Link menu, make the settings as follows.

- 1** In the Panel>Config>External Bus Link>Link Matrix Adjust menu, press [Link Table Adjust].

The Link Table Adjust menu appears.

The status area lists the status of the currently selected link, combinations of video signals and sources, and the sources that can be selected.

- 2** Using any of the following methods, select the switcher cross-point button and the matrix source to be linked to the button.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.

- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------------------|----------------|
| 1 | Main No | Switcher cross-point button | 1 to 128 |
| 2 | Source No | Matrix source selection | 1 to 128 |

- 3 To confirm the matrix source selection made in step **2**, press [Link Source Set].

This confirms the selection, which is reflected in the status area.

- 4 As required, repeat steps **2** and **3** to select the matrix sources to be linked to other cross-point buttons.

To initialize the set links

Press [Init Link Table].

A confirmation message appears.

Press [Yes].

The links set using the above procedure are initialized to the default settings, and this is reflected in the status area.

To make link bus settings

For the link number selected in the External Bus Link menu, use the following procedure.

- 1 In the Panel>Config>External Bus Link menu, press [Link Bus Adjust].
The Link Bus Adjust menu appears. The status area lists the current link status, and the switcher buses and router destinations that can be selected. In this menu too, you can use knob 1 to select the link to be set.
- 2 Using any of the following methods, select the switcher bus and the router destination to be linked to the switcher bus.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|--------------|------------------------------|----------------|
| 2 | Internal Bus | Switcher bus selection | 1 to 128 |
| 3 | Destination | Router destination selection | 1 to 128 |

- 3 To confirm the bus selected in step **2**, press [Master Bus Set], and to confirm the destination press [Linked Dest Set].

This confirms the selection, which is reflected in the status area.

Linking transitions between keyers

Use the following procedure.

- 1 In the Panel>Config menu, press [Key Trans Link].
The Key Trans Link menu appears.
The status area shows the keyers for each M/E bank and the linked keyers.
- 2 Using any of the following methods, select the keyer to be the master.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|---------------------------|----------------|
| 1 | Master Key | Select keyer to be master | 1 to 16 |

The selected keyer appears in reverse video.

- 3 In the <Key Select> group, select the keyer to be linked to the transition of the master.

Note

Linking does not apply to a transition carried out with the downstream key control block.

Linking the next transition selection buttons

To the transition links between keyers, you can add a link for the next transition selection buttons in the transition control block. The effect of this additional link is such that if for example, two keyers (Key 2 and Key 3) are linked with the master keyer (Key 1), pressing the [KEY1] next transition selection button also selects the [KEY2] and [KEY3] buttons.

Use the following procedure.

- 1 Set the transition links between keyers.
For details of the operation, see the previous section, “Linking transitions between keyers.”
- 2 Press [Next Trans Link], turning it on.
The [KEY1], [KEY2], [KEY3], and [KEY4] next transition selection buttons in the transition control block are now selected coupled to the settings in the Key Trans Link menu for transition links between keyers.

Note

These settings apply to the whole Key Trans Link menu. It is not possible to make separate settings for each master keyer.

Selecting the module to be the reference for device control block

In the <Reference Module> group of the Panel>Config menu, select the module to be the reference.

- Trackball
- Joystick

Assigning the region selection buttons in the numeric keypad control block

Use the following procedure.

- 1 In the Panel>Config menu, press [10 Key Region Assign].

The 10 Key Region Assign menu appears. On the left of the status area the region selection buttons (of the CCP-8000 by default) are shown, and on the right a list of the assignable regions.

- 2 In the <Type> group, press [CCP 8000].

The region selection button display changes to display the buttons of the CCP-8000.

- 3 Press the indication for the button you want to assign.

The button you pressed turns to reverse video.

- 4 Using any of the following methods, select the region to be assigned.

- Press directly on the list.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|----------------|
| 1 | Region | Region selection | 1 to 35 |

- 5 Press [Set] to confirm the selection.

This assigns the region to the region selection button in the numeric keypad control block.

Note

Only the regions assigned here can be used for snapshot recall.

When an M/E bank is not assigned to a region selection button in the numeric keypad control block, it is not possible to recall a snapshot with the Flexi Pad control block of that M/E.

To set the region selection buttons selected when the [ALL] button is pressed

Use the following procedure.

- 1** In the 10 Key Region Assign menu, press [All Select] in the button area, or the [All Select] button indication in the status area, turning it on.

The [All Select] button indication in the status area turns orange, and the region selection button indication in the status area changes to the mode for assigning region selection buttons to the [ALL] button. In the factory default setting, all buttons appear in reverse video, and are assigned to the [ALL] button.

- 2** To remove a button from the assignment to the [ALL] button, press the button indication, turning it off.

The button you pressed changes to a normal indication.

To return the region assignments to the factory default

In the 10 Key Region Assign menu, press [Default].

This returns the assignments of the region selection buttons in the numeric keypad control block to the factory default.

To clear a region assignment

Use the following procedure.

- 1** In the 10 Key Region Assign menu, press the indication for the button to which the region is assigned.

The button you pressed turns to reverse video.

- 2** Press [Clear].

This clears the assignment of the selected button, which is now no longer assigned.

Setting VTR operation button assignment

You can change the assignment of some of the buttons in the transition control block for use in VTR operations. Use the following procedure.

- 1** In the Panel>Config menu, press [Program Button].

The Program Button menu appears.

2 Press [Transition Module].

The Transition Module menu appears.

3 Using any of the following methods, select the bank.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------|
| 1 | Bank | Bank selection | 1 to 4 |

4 Select the assignment for the [PTN LIMIT], [LIMIT SET], and [KF] buttons in the standard type transition control block from the <PTN LIMIT/LIMIT SET/KF Button Assign> group.

Ptn Limit /KF: These are used as the [PTN LIMIT] button, [LIMIT SET] button, and [KF] button.

Play/Stop/Cue: These are used as the [PLAY] button, [STOP] button, and [CUE] button for VTR operation.

Inhibit: Inhibit operations with these buttons.

5 Select the assignment for the [NORM], [NORM/REV], and [REV] buttons in the transition control block from the <NORM/NORM REV/REV Button Assign> group.

Note

This operation cannot be done in the simple type transition control block.

Normal/Reverse: These are used as the [NORM] button, [NORM/REV] button and [REV] button.

Play/Stop/Cue: These are used as the [PLAY] button, [STOP] button, and [CUE] button for VTR operation.

Inhibit: Inhibit operations with these buttons.

Setting the assignment of macro operation buttons

Note

This setting applies to all simple type Flexi Pad control blocks on the control panel.

To switch the [UNDO] button on a simple type Flexi Pad control block to a [MCRO] button for macro operation, use the following procedure.

1 In the Engineering Setup menu, select VF2 'Panel' and HF1 'Config.'

The Config menu appears.

2 Press the [Program Button].

The Program Button menu appears.

3 Press [Flexi Pad Module].

The Flexi Pad Module menu appears.

4 Select the assignment of the [UNDO] button in the simple type Flexi Pad control block from the <UNDO Button Assign> group.

UNDO: use as an [UNDO] button.

MACRO: use as a [MCRO] button.

Cross-Point Settings (Xpt Assign Menu)

To carry out the cross-point settings, use the Panel>Xpt Assign menu.

To display the Xpt Assign menu

In the Engineering Setup menu, select VF2 'Panel' and HF2 'Xpt Assign.'

The status area shows a list of "cross-point assign tables" to use for the M/E banks, PGM/PST bank, and various buses.

Creating cross-point assign tables

As cross-point assign tables, you can create a "main" table and up to four other tables (table 1 to table 4). However, you can only carry out assignment of the video and key combinations in the main table.

To create the main table

In the main table, a pair consisting of a video signal and a key signal is assigned to each button number. You can also assign the same signal to another button number at the same time. Further, you can delete currently assigned signals from the main table.

To create the main table, use the following procedure.

1 In the Panel>Xpt Assign menu or Panel>Xpt Assign>Table1 (Table2, Table3, or Table4) menu, press [Main, V/K Pair Assign].

The Main, V/K Pair Assign menu appears.

The left part of the status area shows the names of video and key signals currently assigned in the main table and the source numbers. The right part

shows the source numbers and the names of the signals which can be assigned.

2 Using any of the following methods, select the button number.

- Press an auxiliary bus control block cross-point button.
(The auxiliary bus control block is in selection mode, only when the menu for cross-point button selection is showing.)
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|--|----------------|
| 1 | V/K Pair No | Selection of video and key pair number | 1 to 128 |

3 When assigning a video signal, press [Video] in the <Assign> group. When assigning a key signal, press [Key]. (You can select a video signal and a key signal at the same time.)

Note

[Video] and [Key] in the <Assign> group cannot be turned off at the same time. At least the one or the other is always on.

4 Use any of the following methods to select the signal to assign.

- Press directly on the list in the status area.
- Press the arrow keys to move the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------------------|----------------|
| 3 | Source No | Selection of source to be assigned | 1 to 128 |

5 Using the buttons in the <Xpt Assign> group, assign the selected signal to the button number currently selected in the main table.

Set: Delete the signal currently assigned to the selected button number and make a new assignment.

Insert: Move down one line the signal currently assigned to the selected button number and following signals, and make a new assignment.

Note

When a button number in the range 121 to 128 is selected, execution of “Insert” is impossible. The signal assignments to button numbers 121 to 128 cannot be changed. When “Insert” is executed for any other number, moving down of signals ends at number 120, and the signals assigned to numbers 121 to 128 are maintained in their original lines.

To disable a button

In the Panel>Xpt Assign>Main, V/K Pair Assign menu, select the button you want to disable, and press [Inhibit].

To delete any currently assigned signal

In the Panel>Xpt Assign>Main, V/K Pair Assign menu, select the button corresponding to the signal you want to delete, and press [Delete] in the <Xpt Assign> group.

Signal deletion is executed in accordance with the selection in the <Assign> group, and the signal assigned to the button number next to the selected button number and following signals move up one line.

Note

When a button number in the range 121 to 128 is selected, execution of “Delete” is impossible. The signal assignments to button numbers 121 to 128 cannot be changed. When a signal assigned to any other button number is deleted, moving up of signals ends when the signal assigned to number 120 has moved to number 119, and the signals assigned to numbers 121 to 128 are maintained in their original lines.

To create tables 1 to 4

When creating tables 1 to 4, in the same way as when creating the main table, you can assign the same signal to more than one button number, or delete currently assigned signals. However, assignment of video and key combinations is impossible.

The following explains the operating procedure, taking table 1 by way of example.

- 1** In the Panel>Xpt Assign menu, press [Table1 Button Assign].

The Table1 Button Assign menu appears.

The left part of the status area shows the cross-point button numbers, video and key pair numbers, video signal source names and source numbers, and key signal source names and source numbers. The right part shows the video and key pair numbers, and the names of video signals and key signals set in the main table.

The Table1 Button Assign menu also allows you to access the Main, V/K Pair Assign menu and the Src Name/LCD Color menu.

- 2** Using any of the following methods, select the button number.

- Press an auxiliary bus control block cross-point button.
(The auxiliary bus control block is in selection mode, only when the menu for cross-point button selection is showing.)
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------------|----------------|
| 1 | Button No | Cross-point button selection | 1 to 128 |

3 Using any of the following methods, select the pair number.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---|----------------|
| 3 | V/K Pair No | Selection of video and key pair number to be assigned | 1 to 128 |

4 Using the buttons in the <Button Assign> group, assign the selected pair number to the button number currently selected in table 1.

Set: Delete the signal currently assigned to the selected button number and make a new assignment.

Insert: Move down one line the signal currently assigned to the selected button number and following signals, and make a new assignment.

Note

When a button number in the range 121 to 128 is selected, execution of “Insert” is impossible. The signal assignments to button numbers 121 to 128 cannot be changed. When “Insert” is executed for any other number, moving down of signals ends at number 120, and the signals assigned to numbers 121 to 128 are maintained in their original lines.

To disable a button

In the Panel>Xpt Assign>Table 1 Button Assign menu, select the button you want to disable, and press [Inhibit].

To delete any currently assigned signal

In the Panel>Xpt Assign>Table 1 Button Assign menu, select the button corresponding to the signal you want to delete, and press [Delete] in the <Button Assign> group.

The signal assigned to the button number next to the selected button number and following signals move up one line.

Note

When a button number in the range 121 to 128 is selected, execution of “Delete” is impossible. The signal assignments to button numbers 121 to 128 cannot be changed. When a signal assigned to any other button number is deleted, moving up of signals ends when the signal assigned to number 120 has

moved to number 119, and the signals assigned to numbers 121 to 128 are maintained in their original lines.

To return the table to its default state

- 1** In the Panel>Xpt Assign>Main, V/K Pair Assign menu or Panel>Xpt Assign>Table1 (Table2, Table3, or Table4) Button Assign menu, press [Default Recall].

A confirmation message appears, asking whether or not to return to the default state.

- 2** To return to the default state, press [Yes], and to cancel the operation, press [No].

To set the cross-point button shift operation

You can set the operation of the rightmost button in each row of cross-point buttons excluding the reentry buttons.

In the <Xpt Shift Mode> group of the Panel>Xpt Assign>Main, V/K Pair Assign menu or Panel>Xpt Assign>Table1 (Table2, Table3, or Table4) Button Assign menu, select one of the following for each cross-point table.

Hold: Acts as a shift button, and the shifted version of the cross-point buttons is enabled while the button is held down.

Lock: Acts as a shift button, and pressing the button toggles between the shifted version and the unshifted version.

Off: Acts as a cross-point button, in a 16-button system as button number 16, in a 24-button system as button number 24, and in a 32-button system as button number 32.

To set the action of the [SHIFT] button in the cross-point control block

In the <Display Shift Mode> group of the Panel>Xpt Assign>Main, V/K Pair Assign menu or Panel>Xpt Assign>Table1 (Table2, Table3, or Table4) Button Assign menu, select either of the following.

Display: Functions as a shift button dedicated to the source name displays.

Shift All Bus: Functions as a shift button for all buses.

Notes

- It is not possible to make this setting separately for each of the M/E and PGM/PST banks.
- “Shift All Bus” is only valid when the cross-point button shift operation (*see previous item*) is set to “Lock” or “Off.”

Setting the source signal name

Use the following procedure.

- 1 In the Panel>Xpt Assign menu or Panel>Xpt Assign>Table1 (Table2, Table3, or Table4) Button Assign menu, press [Src Name/LCD Color].
The Src Name/LCD Color menu appears.
- 2 Turn the knob to select the signal to be set.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | Source No | Source signal selection | 1 to 128 |
| 2 | Num | Number of source signals to be selected | 1 to 128 |

- 3 Press [Source Name].
A keyboard window appears.
- 4 Enter any name of not more than 16 characters, then press [Enter].
For details of keyboard window operation, see “Menu Operations” in Chapter 2 (Volume 1).

Sequential names for multiple signals

When you specify a number at the end of a signal name, all of the signals in the range selected by knobs 1 and 2 are automatically assigned names ending with sequential numbers.

Example: To assign sequential names to source signal 2 through source signal 4

- 1) In step 2 above, set knob 1 to “2,” and set knob 2 to “3.”
- 2) Set the name of source signal 2 to “CAM2.”
The name “CAM3” is assigned automatically to source signal 3, and the name “CAM4” is assigned automatically to source signal 4.

Setting the source name display color

- 1 In the Src Name/LCD Color menu, turn the knobs to select the setting target.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | Source No | Source signal selection | 1 to 128 |
| 2 | Num | Number of source signals to be selected | 1 to 128 |

- 2 In the <LCD Color> group, select the color (Orange/Green/Yellow).

Copying cross-point assign tables

The contents of a cross-point assign table can be copied to another cross-point assign table, and vice versa.

Note

The contents of a sub table cannot be copied to the main table.

- 1** In the Panel>Xpt Assign menu, press [Table Copy].
The Table Copy menu appears.
The status area shows a list of copy sources and a list of copy destinations.
- 2** Using any of the following methods, select the number of the table to use as the copy source and the number of the table you want to be the copy destination.
 - Press directly on the list of copy sources (left-side list) or the list of copy destinations (right-side list) in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------------------|----------------|
| 1 | Left No | Selection of copy source | 1 to 5 |
| 2 | Right No | Selection of copy destination | 1 to 4 |

- 3** Press [Copy].
A confirmation message appears, asking whether or not to execute the copy.
- 4** To execute the copy, press [Yes], and to cancel the operation, press [No].

Selecting cross-point assign tables

You can select the cross-point assign table to be used for each of the following banks or buses.

- M/E-1 to M/E-3 banks and PGM/PST bank
- Buses assignable to AUX delegation buttons

Use the following procedure.

- 1** In the Panel>Xpt Assign menu, press [Table Assign].
The Table Assign menu appears.
The status area shows the bank and bus names, and the cross-point assign table.

- 2** Using any of the following methods, select the bank or bus.
- Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------------------------|----------------|
| 1 | No | Bank or bus selection | 1 and upwards |
| 2 | Num | Number of banks/buses to be selected | 1 and upwards |

- 3** In the <Xpt Table Select> group, select the cross-point table you want to assign.

Exporting source names and destination names

To send the source names and destination names to the S-Bus, use the following procedure.

- 1** In the Panel>XPT Assign menu, press [Name Export].
- The Name Export menu appears.

- 2** Turn the knob to set the station ID.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|--------------------|------------------------|
| 1 | Station ID | Station ID setting | 1 to 255 ^{a)} |

a) If set to 255, the information is sent to all stations (with display of “All”).

- 3** Press [Src Name Export].
- This exports the source names to the station selected in step **2**.
- 4** Press [Dest Name Export].
- This exports the destination names to the station selected in step **2**.

Note

Since destination names cannot be selected freely, fixed names are used.

Assigning a cross-point button to enable/disable side flags

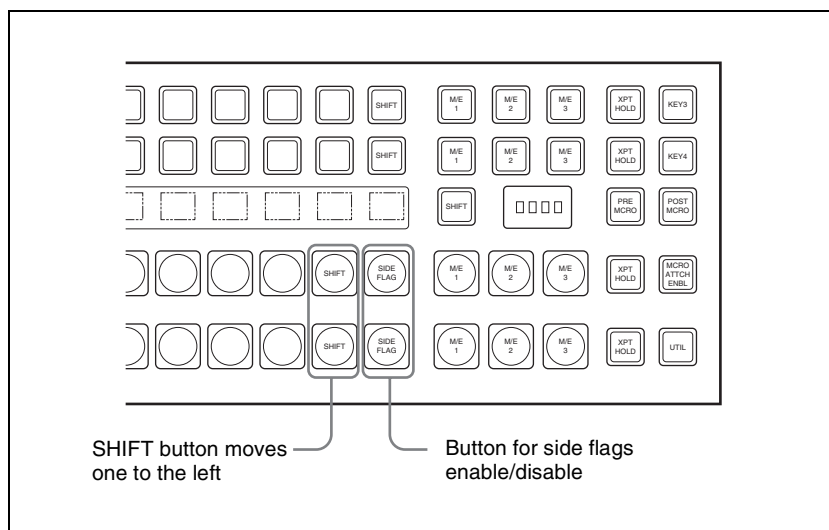
By assigning the side flag function to the rightmost button in a cross-point button row, you can use this button to enable/disable side flags for each of the M/E and PGM/PST banks.

This setting applies to all of the M/E and PGM/PST banks.

When you make this assignment, the SHIFT button (the button assigned to the shift function) is moved one to the left.

Note

If a macro attachment is set, when you assign the button to the side flag function, the button numbers are offset, and therefore when you press the button this does not execute the macro. The settings, however, are maintained, so that when you cancel the side flag assignment, the macro can be accessed once more.



For details of side flag operations, see Chapter 10 “Side Flag Settings” (Volume 1).

Use the following procedure.

- 1** In the Panel>XPT Assign menu, press [Side Flags Button Assign].

The Side Flags Button Assign menu appears.

- 2** Press [Side Flags Btn Assign], turning it on.

This assigns the rightmost cross-point button to enabling/disabling the side flag function.

Auxiliary Bus Control Block Settings (Aux Assign Menu)

To carry out the settings of the AUX delegation buttons in the auxiliary bus control block, use the Panel>Aux Assign menu.

To display the Aux Assign menu

In the Engineering Setup menu, select VF2 'Panel' and HF3 'Aux Assign.' The left side of the status area shows the delegation numbers, and the list of buses set; the right side shows a list of buses that can be assigned.

Assigning a bus to an AUX delegation button

Use the following procedure.

- 1 Using any of the following methods, select the delegation button and the bus to be assigned.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------------------|------------------------|
| 1 | Deleg No | Selection of AUX delegation button | 1 to 128 ^{a)} |
| 2 | Bus No | Selection of bus to be assigned | 1 to 107 ^{b)} |

a) The setting can be from 1 to 62. The valid settings, however, depend on the number of buttons and the delegation button shift mode.

| Number of buttons | Shift mode | Valid settings |
|-------------------|------------|----------------|
| 16 | OFF | 1 to 16 |
| | ON | 1 to 30 |
| 24 | OFF | 1 to 24 |
| | ON | 1 to 46 |
| 32 | OFF | 1 to 32 |
| | ON | 1 to 62 |

b) The buses that can be assigned are as follows.

- AUX1 to AUX48, Monitor1 to Monitor8, DME1V to DME8V, and DME1K to DME8K
M/E1 Utility1 and 2, M/E2 Utility1 and 2, M/E3 Utility1 and 2
P/P Utility1 and 2, Frame Memory Source1 and 2, Edit Preview, DSK1 to 4 Fill/Source,
M/E3 Key 1 and 4 Fill/Source
M/E-1 EXT DME, M/E-2 EXT DME, M/E-3 EXT DME, P/P EXT DME, DME Utility
1 and 2, CCR 1 and 2
- For a button for which you want to disable operation, press [Inhibit].

- 2 Press [Set] to confirm the selection.

To set the AUX delegation button shift operation

To set the operation mode of the rightmost button in the row of AUX delegation buttons, select one of the following in the <Shift Mode> group of the Panel>Aux Assign menu.

Hold: Acts as a shift button, and the shifted version of the AUX delegation buttons is enabled while the button is held down.

Lock: Acts as a shift button, and pressing the button toggles between the shifted version and the unshifted version of the AUX delegation buttons.

Off: Acts as an AUX delegation button. In a 16-button system it acts as button number 16, in a 24-button system as button number 24, and in a 32-button system as button number 32.

Using the auxiliary bus control block for router control

To make router control settings, display the Setup>Panel>Aux Assign>RTR Mode Setting menu.

To display the RTR Mode Setting menu

Use the following procedure.

- 1 In the Engineering Setup menu, select VF2 'Panel' and HF3 'Aux Assign.'
The Aux Assign menu appears.

- 2 Press [RTR Mode Setting].

The RTR Mode Setting menu appears. The left of the status area shows the destination number assignment status and source table, and the right side lists the destinations that can be assigned.

To assign a destination to a destination selection button

In the RTR Mode Setting menu, use the following procedure.

- 1 Using any of the following methods, select a destination selection button and the destination to be assigned to the button.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--|----------------|
| 1 | Dest No | Destination selection button selection | 1 to 128 |
| 2 | No | Destination selection in S-Bus space | 1 to 1024 |

- For a button whose operation you want to disable, press [Inhibit].

Note

When a destination selection button having a number in the range 65 to 128 is selected, source table selection automatically becomes invalid, and therefore the Inhibit function also becomes invalid.

- 2 Press [Dest Set] to confirm the selection.
- 3 If in step 1 you selected a value in the range 1 to 64, turn the knob to select the source table.

| Knob | Parameter | Adjustment | Setting values |
|------|--------------|------------------------|----------------|
| 3 | Source Table | Source table selection | 1 to 5 |

- 4 Press [Source Table Set] to confirm the selection.
- 5 Repeat steps 1 to 4 as required.

To set the shift operation of the destination selection buttons

To set the operation mode of the rightmost button in the destination selection button row, select one of the following in the <Dest Shift Mode> group of the RTR Mode Setting menu.

Hold: Acts as a shift button, and the shifted destination selection buttons are enabled while the button is held down.

Lock: Acts as a shift button, and pressing the button toggles between the shifted and unshifted states of the destination selection buttons.

Off: Acts as a destination selection button, that is, button number 16 on a 16-button system, button number 24 on a 24-button system, and button number 32 on a 32-button system.

To set the source table

Use the following procedure.

- 1 In the RTR Mode Setting menu, press [Source Table Assign].
The Source Table Assign menu appears.
- 2 In the <Source Table Select> group, select the source table you want to manipulate.
- 3 Press [Table Assign].
The Table Assign menu appears.

The left of the status area lists the button numbers and set sources, and the right side lists the source that can be assigned.

- 4** Using any of the following methods, select a source selection button and the source you want to assign.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------------------------|----------------|
| 1 | Source No | Source selection button selection | 1 to 128 |
| 2 | No | Source selection in S-Bus space | 1 to 1024 |

- For a button whose operation you want to disable, press [Inhibit].

- 5** Press [Source Set] to confirm the selection.

To set the shift operation of the source selection buttons

To set the operation mode of the rightmost button in the source selection button row with different destinations assigned to the 1st and 2nd rows, select the source table in the Source Table Assign menu, then in the <Xpt Shift Mode> group select one of the following.

Hold: Acts as a shift button, and the shifted source selection buttons are enabled while the button is held down.

Lock: Acts as a shift button, and pressing the button toggles between the shifted and unshifted states of the source selection buttons.

Off: Acts as a cross-point button, that is, button number 16 on a 16-button system, button number 24 on a 24-button system, and button number 32 on a 32-button system.

To expand the shift function

To set the [KEY] button as a shift operation expansion button, in the Source Table Assign menu select the source table, then in the <Expand Xpt Shift Assign> group, press [Key Button].

In order not to expand the shift operation, press [No Assign] in the <Expand Xpt Shift Assign> group.

To assign levels to a level selection button

To assign levels to the [LEVEL1] to [LEVEL4] buttons in the auxiliary bus control block, use the following procedure.

- 1** In the RTR Mode Setting menu, press [Level Button Assign].

The Level Button Assign menu appears. The status area shows a list of the assignment status of levels to each button.

- 2 In the <Level Button Select> group, select the button you want to set.
- 3 In the <Level Assign> group, press the levels you want to assign to the button, turning them on.

You can select plural of levels. You can also make a selection that overlaps that of another button.

To select a destination selection button for a snapshot

To set whether snapshots are recalled for each destination selection button individually, use the RTR Mode Setting menu as follows.

- 1 Use any of the following methods to select the destination selection button to which the setting applies.
 - Press directly on the list on the left of the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | Dest No | Selection of destination selection button | 1 to 128 |

- 2 Press [SS Enable], turning it on or off.

On: When a snapshot applying to the router is recalled, the recall also applies to the selected destination selection button.

Off: When a snapshot applying to the router is recalled, the recall does not apply to the selected destination selection button.

Note

When a destination selection button is set to Inhibit, then even if SS Enable is on, the snapshot for that destination is not recalled.

Setting Button Assignments (Prefs/Utility Menu)

To assign functions to the user preference buttons ([PREFS 1] to [PREFS 8]) in the menu control block and the memory recall buttons in the utility/shotbox control block, display the Panel>Prefs/Utility menu.

To display the Prefs/Utility menu

In the Engineering Setup menu, select VF2 'Panel' and HF4 'Prefs/Utility.' The status area shows the settings of the user preference buttons.

Assigning functions to user preference buttons

Use the following procedure.

1 Using any of the following methods, select the button to be assigned.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------------------------|----------------|
| 1 | No | User preference button selection | 1 to 8 |

2 In the <Action> group, select the function to be assigned.

Menu Shortcut: Assign a frequently used menu to be recalled (menu shortcut).

Utility Command: Assign a function enable/disable or similar operation (utility command).

Macro Recall: Assign a macro register recall.

Shotbox Recall: Assign a shotbox register recall.

3 Depending on the selection in step **2**, make the following settings.

When Menu Shortcut is selected: For the subsequent operations, *see the next item “Assigning a menu shortcut to a user preference button” (page 331).*

When Utility Command is selected: A list of commands appears on the right of the status area; using any of the following methods, select the command you want to assign.

- Press directly on the list.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------------------|----------------|
| 3 | Command | Utility command selection | 1 and upwards |
| 4 a) | GPI No | GPI port number | 1 and upwards |

a) When the Command parameter is set to Sw’er GPI Test Fire, Panel GPI Test Fire, DCU GPI, or Test Fire

When Macro Recall is selected: Turn the knob to select the macro register you want to assign.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------------|----------------|
| 3 | Macro | Macro register selection | 1 to 99 |



When Shotbox Recall is selected: Turn the knob to select the shotbox register you want to assign.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------------------|----------------|
| 3 | Shotbox | Shotbox register selection | 1 to 99 |

4 Press [Action Set].

This assigns the selected action, which is reflected in the status area.

To cancel an assignment

After selecting the relevant button, press [Clear].

List of utility commands and user preference button status

The following table shows the utility commands that can be assigned to user preference buttons.

| Command name ^{a)} | Function | Button status | |
|---|---|---------------|----------|
| | | Lit amber | Off |
| SWR Remote1 Enbl SWR Remote4 Enbl | Switcher Remote 1 enabled/disabled Switcher Remote 4 enabled/disabled | Enabled | Disabled |
| DME1 Editor Port Enbl | DME1 editor port enabled/disabled | Enabled | Disabled |
| DME2 Editor Port Enbl | DME2 editor port enabled/disabled | Enabled | Disabled |
| 2nd System Enbl | (Dual Simul Mode) Second system enabled/disabled | Enabled | Disabled |
| ME1 PGM1 ST ME1 PGM4 ST | M/E-1 PGM1 output safe title on/off M/E-1 PGM4 output safe title on/off | On | Off |
| ME1 PVW ST | M/E-1 preview output safe title on/off | On | Off |
| ME1 Clean ST | M/E-1 clean output safe title on/off | On | Off |
| ME1 K-PVW ST | M/E-1 key preview output safe title on/off | On | Off |
| ME2 PGM1 ST ME2 PGM4 ST | M/E-2 PGM1 output safe title on/off M/E-2 PGM4 output safe title on/off | On | Off |
| ME2 PVW ST | M/E-2 preview output safe title on/off | On | Off |
| ME2 Clean ST | M/E-2 clean output safe title on/off | On | Off |
| ME2 K-PVW ST | M/E-2 key preview output safe title on/off | On | Off |
| ME3 PGM1 ST ME3 PGM4 ST | M/E-3 PGM1 output safe title on/off M/E-3 PGM4 output safe title on/off | On | Off |
| ME3 PVW ST | M/E-3 preview output safe title on/off | On | Off |
| ME3 Clean ST | M/E-3 clean output safe title on/off | On | Off |
| ME3 K-PVW ST | ME-3 key preview output safe title on/off | On | Off |
| PP PGM1 ST PP PGM4 ST | PP PGM1 output safe title on/off PP PGM4 output safe title on/off | On | Off |
| PP PVW ST | P/P preview output safe title on/off | On | Off |
| PP Clean ST | P/P clean output safe title on/off | On | Off |
| PP K-PVW ST | P/P key preview output safe title on/off | On | Off |
| DME MON1 ST | DME Monitor 1 output safe title on/off | On | Off |
| DME MON2 ST | DME Monitor 2 output safe title on/off | On | Off |
| Edit PVW ST | Edit preview output safe title on/off | On | Off |
| Preset ST | Preset output safe title on/off | On | Off |

| Command name ^{a)} | Function | Button status | |
|---|--|---|--------------------------------|
| | | Lit amber | Off |
| AUX1 ST AUX48 ST | AUX1 output safe title on/off AUX48 output safe title on/off | On | Off |
| FM Src1 Frame Freeze | Frame freeze of frame memory source 1 | During frame freeze | Either of the other two states |
| FM Src1 Filed Freeze | Field freeze of frame memory source 1 | During field freeze | Either of the other two states |
| FM Src1 Freeze Off | Release freeze of frame memory source 1 | While freeze being released | Either of the other two states |
| FM Src2 Frame Freeze | Frame freeze of frame memory source 2 | During frame freeze | Either of the other two states |
| FM Src2 Field Freeze | Field freeze of frame memory source 2 | During field freeze | Either of the other two states |
| FM Src2 Freeze Off | Release freeze of frame memory source 2 | While freeze being released | Either of the other two states |
| SWR GPI Enbl | Enable/disable switcher GPI | Enabled | Disabled |
| DME1 GPI Enbl | Enable/disable DME1 GPI | Enabled | Disabled |
| DME2 GPI Enbl | Enable/disable DME2 GPI | Enabled | Disabled |
| Panel GPI Enbl | Enable/disable panel GPI | Enabled | Disabled |
| SWR GPI1 Test Fire SWR GPI8 Test Fire | Output test trigger from switcher GPI1 Output test trigger from switcher GPI8 | Output (lights only at the instant the button is pressed) | When the output is assigned |
| Panel GPI1 Test Fire Panel GPI8 Test Fire | Output test trigger from panel GPI1 Output test trigger from panel GPI8 | Output (lights only at the instant the button is pressed) | When the output is assigned |
| DCU GPI1 Test Fire DCU GPI50 Test Fire | Output test trigger from port assigned to DCU GPI1 Output test trigger from port assigned to DCU GPI50 | Output (lights only at the instant the button is pressed) | When the output is assigned |
| Macro Attachment Enbl | Enable/disable macro attachment | Enabled | Disabled |
| Macro Only Set | Macro only mode on/off | On | Off |
| Pre Macro | Set macro attachment in pre macro mode | Can be set only while pressed (lit) | When the function is assigned |
| Post Macro | Set macro attachment in post macro mode | Can be set only while pressed (lit) | When the function is assigned |
| Macro Take | Macro execution | During execution | When the function is assigned |
| Macro Auto Ins | Macro auto insert mode on/off | On | Off |

| Command name ^{a)} | Function | Button status | |
|----------------------------|--|---------------|----------|
| | | Lit amber | Off |
| Macro AT with Rate | When registering an auto transition macro event, on/off setting of mode to save transition rate | On | Off |
| Macro AT with A/B Bus | When registering an auto transition macro event for the transition control block, on/off setting of mode to save A/ B Bus cross-point settings | On | Off |
| Macro TL with Region | When registering a timeline macro event, on/off setting of mode to save applicable region | On | Off |
| DME Override | DME override on/off | On | Off |
| DME Graphic | DME graphics on/off (Applies to graphics for channel selected in device control block) | On | Off |
| System Manager Enbl | Enable/disable operation from System Manager | Enabled | Disabled |
| Plug-In Editor Enbl | Enable/disable operation from an editing keyboard | Enabled | Disabled |

a) For the safe title on/off commands (from ME1 PGM1 ST-ME1 PGM4 ST to AUX1 ST-AUX48 ST), the name of the assigned output signal is shown.

Assigning a menu shortcut to a user preference button

Use the following procedure.

- 1 Referring to the procedure up to step 2 in the previous item, select [Menu Shortcut].

The user preference buttons [PREFS 1] to [PREFS 8] flash amber.

- 2 Using any of the following methods, display the menu to which you want to make a shortcut.

- In the menu control block, press the relevant top menu selection button, then select VF and HF.
- Press the menu page number button in the upper left corner of the menu screen, then enter a menu number from the numeric keypad window.
- Press a particular control panel button twice in rapid succession.

- 3 Press the user preference button to which you want to assign the shortcut.

The menu screen goes back to the Prefs/Utility menu, and the selection is reflected in the status area. The user preference buttons [PREFS 1] to [PREFS 8] stop flashing amber.

To abandon the process of menu shortcut assignment

In the Prefs/Utility menu, press [Menu Shortcut] once more.

This exits the menu shortcut assignment mode.

Assigning a function to a memory recall button in the utility/shotbox control block

Use the following procedure.

- 1 In the Prefs/Utility menu, press [Utility Module Assign].

The Prefs/Utility>Utility Module Assign menu appears. The status area shows the settings in the utility/shotbox control block.

- 2 Using any of the following methods, select the button to be assigned.

- Press directly on the list.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------------------|----------------|
| 1 | Bank | Bank selection | 1 to 4 |
| 2 | Button No | Control block button selection | 1 to 24 |

- 3 In the <Action> group, select the function you want to assign.

Menu Shortcut: Assign a frequently used menu to be recalled (menu shortcut).

Utility Command: Assign a function enable/disable or similar operation (utility command).

Macro Recall: Assign a macro register recall.

Shotbox Recall: Assign a shotbox register recall.

- 4 Depending on the selection in step 3, make the following settings.

When Menu Shortcut is selected: For the subsequent operations, *see the next item “Assigning a menu shortcut to a memory recall button in the utility/shotbox control block” (page 336).*

When Utility Command is selected: A list of commands appears on the right of the status area; using any of the following methods, select the command you want to assign.

- Press directly on the list.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------------------|----------------|
| 3 | Command | Utility command selection | 1 and upwards |

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------|----------------|
| 4 a) | GPI No | GPI port number | 1 and upwards |

a) When the Command parameter is set to Sw'er GPI Test Fire, Panel GPI Test Fire, DCU GPI, or Test Fire

When Macro Recall is selected: Turn the knob to select the macro register you want to assign.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------------|----------------|
| 3 | Macro | Macro register selection | 1 to 99 |

When Shotbox Recall is selected: Turn the knob to select the shotbox register you want to assign.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------------------|----------------|
| 3 | Shotbox | Shotbox register selection | 1 to 99 |

5 Press [Action Set].

This assigns the selected action, which is reflected in the status area. In the utility/shotbox control block, the assigned button lights orange. If a shotbox register was assigned, the register name appears.

To cancel an assignment

After selecting the relevant button, press [Clear].

List of utility commands and memory recall button status

The following table shows the utility commands that can be assigned to memory recall buttons.

| Command name ^{a)} | Function | Button status | |
|---|---|---------------|------------|
| | | Lit green | Lit orange |
| SWR Remote1 Enbl SWR Remote4 Enbl | Switcher Remote 1 enabled/disabled Switcher Remote 4 enabled/disabled | Enabled | Disabled |
| DME1 Editor Port Enbl | DME1 editor port enabled/disabled | Enabled | Disabled |
| DME2 Editor Port Enbl | DME2 editor port enabled/disabled | Enabled | Disabled |
| 2nd System Enbl | (Dual Simul Mode) Second system enabled/disabled | Enabled | Disabled |
| ME1 PGM1 ST ME1 PGM4 ST | M/E-1 PGM1 output safe title on/off M/E-1 PGM4 output safe title on/off | On | Off |
| ME1 PVW ST | M/E-1 preview output safe title on/off | On | Off |
| ME1 Clean ST | M/E-1 clean output safe title on/off | On | Off |

| Command name ^{a)} | Function | Button status | |
|---------------------------------|---|-----------------------------|--------------------------------|
| | | Lit green | Lit orange |
| ME1 K-PVW ST | M/E-1 key preview output safe title on/off | On | Off |
| ME2 PGM1 ST ME2 PGM4 ST | M/E-2 PGM1 output safe title on/off M/E-2 PGM4 output safe title on/off | On | Off |
| ME2 PVW ST | M/E-2 preview output safe title on/off | On | Off |
| ME2 Clean ST | M/E-2 clean output safe title on/off | On | Off |
| ME2 K-PVW ST | M/E-2 key preview output safe title on/off | On | Off |
| ME3 PGM1 ST ME3 PGM4 ST | M/E-3 PGM1 output safe title on/off M/E-3 PGM4 output safe title on/off | On | Off |
| ME3 PVW ST | M/E-3 preview output safe title on/off | On | Off |
| ME3 Clean ST | M/E-3 clean output safe title on/off | On | Off |
| ME3 K-PVW ST | ME-3 key preview output safe title on/off | On | Off |
| PP PGM1 ST PP PGM4 ST | PP PGM1 output safe title on/off PP PGM4 output safe title on/off | On | Off |
| PP PVW ST | P/P preview output safe title on/off | On | Off |
| PP Clean ST | P/P clean output safe title on/off | On | Off |
| PP K-PVW ST | P/P key preview output safe title on/off | On | Off |
| DME MON1 ST | DME Monitor 1 output safe title on/off | On | Off |
| DME MON2 ST | DME Monitor 2 output safe title on/off | On | Off |
| Edit PVW ST | Edit preview output safe title on/off | On | Off |
| Preset ST | Preset output safe title on/off | On | Off |
| AUX1 ST AUX48 ST | AUX1 output safe title on/off AUX48 output safe title on/off | On | Off |
| FM Src1 Frame Freeze | Frame freeze of frame memory source 1 | During frame freeze | Either of the other two states |
| FM Src1 Filed Freeze | Field freeze of frame memory source 1 | During field freeze | Either of the other two states |
| FM Src1 Freeze Off | Release freeze of frame memory source 1 | While freeze being released | Either of the other two states |
| FM Src2 Frame Freeze | Frame freeze of frame memory source 2 | During frame freeze | Either of the other two states |
| FM Src2 Field Freeze | Field freeze of frame memory source 2 | During field freeze | Either of the other two states |
| FM Src2 Freeze Off | Release freeze of frame memory source 2 | While freeze being released | Either of the other two states |

| Command name ^{a)} | Function | Button status | |
|---|---|---|-------------------------------|
| | | Lit green | Lit orange |
| SWR GPI Enbl | Enable/disable switcher GPI | Enabled | Disabled |
| DME1 GPI Enbl | Enable/disable DME1 GPI | Enabled | Disabled |
| DME2 GPI Enbl | Enable/disable DME2 GPI | Enabled | Disabled |
| Panel GPI Enbl | Enable/disable panel GPI | Enabled | Disabled |
| SWR GPI1 Test Fire SWR GPI8 Test Fire | Output test trigger from switcher GPI1 Output test trigger from switcher GPI8 | Output (lights only at the instant the button is pressed) | When the output is assigned |
| Panel GPI1 Test Fire Panel GPI8 Test Fire | Output test trigger from panel GPI1 Output test trigger from panel GPI8 | Output (lights only at the instant the button is pressed) | When the output is assigned |
| DCU GPI1 Test Fire DCU GPI50 Test Fire | Output test trigger from port assigned to DCU GPI1 Output test trigger from port assigned to DCU GPI50 | Output (lights only at the instant the button is pressed) | When the output is assigned |
| Macro Attachment Enbl | Enable/disable macro attachment | Enabled | Disabled |
| Macro Only Set | Macro only mode on/off | On | Off |
| Pre Macro | Set macro attachment in pre macro mode | Can be set only while pressed (lit) | When the function is assigned |
| Post Macro | Set macro attachment in post macro mode | Can be set only while pressed (lit) | When the function is assigned |
| Macro Take | Macro execution | During execution | When the function is assigned |
| Macro Auto Ins | Macro auto insert mode on/off | On | Off |
| Macro AT with Rate | When registering an auto transition macro event, on/off setting of mode to save transition rate | On | Off |
| Macro AT with A/B Bus | When registering an auto transition macro event for the transition control block, on/off setting of mode to save A/B Bus cross-point settings | On | Off |
| Macro TL with Region | When registering a timeline macro event, on/off setting of mode to save applicable region | On | Off |
| DME Override | DME override on/off | On | Off |
| DME Graphic | DME graphics on/off (Applies to graphics for channel selected in device control block) | On | Off |
| System Manager Enbl | Enable/disable operation from System Manager | Enabled | Disabled |

| Command name ^{a)} | Function | Button status | |
|----------------------------|---|---------------|------------|
| | | Lit green | Lit orange |
| Plug-In Editor Enbl | Enable/disable operation from an editing keyboard | Enabled | Disabled |

a) For the safe title on/off commands (from ME1 PGM1 ST-ME1 PGM4 ST to AUX1 ST-AUX48 ST), the name of the assigned output signal is shown.

Assigning a menu shortcut to a memory recall button in the utility/shotbox control block

Use the following procedure.

- 1 Referring to the procedure up to step **3** in the previous item, select [Menu Shortcut].

The memory recall buttons in the utility/shotbox control block flash orange.

- 2 Using any of the following methods, display the menu to which you want to make a shortcut.

- In the menu control block, press the relevant top menu selection button, then select VF and HF.
- Press the menu page number button in the upper left corner of the menu screen, then enter a menu number from the numeric keypad window.
- Press a particular control panel button twice in rapid succession.

- 3 In the utility/shotbox control block, select the bank, and press the button to which you want to assign the shortcut.

The menu screen goes back to the Prefs/Utility>Utility Module Assign menu, and the selection is reflected in the status area.

The buttons in the utility/shotbox control block stop flashing, and the button to which the menu shortcut is assigned lights orange.

To abandon the process of menu shortcut assignment

In the Prefs/Utility>Utility Module Assign menu, press [Menu Shortcut]. This exits the menu shortcut assignment mode.

Setting names to be displayed in memory recall buttons

Note

The name you set using the following procedure is displayed only when “Menu Shortcut” or “Utility Command” has been assigned to the selected memory recall button. To set a name for display in a memory recall button to which

“Shotbox Recall” or “Macro Recall” has been assigned, use the Shotbox menu or Macro menu.

Use the following procedure.

- 1** In the Prefs/Utility>Utility Module Assign menu, select the button using any of the following methods.

- Press directly on the list.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------------------|----------------|
| 1 | Bank | Bank selection | 1 to 4 |
| 2 | Button No | Control block button selection | 1 to 24 |

- 2** Press [Name].

A keyboard window appears.

- 3** Enter a name of not more than eight characters, and press [Enter].

The name you have set is reflected in the status area and on the memory recall button in the utility/shotbox control block.

Interfacing With External Devices (Device Interface Menu)

To carry out setup relating to connections with external devices, display the Panel>Device Interface menu.

To display the Device Interface menu

In the Engineering Setup menu, select VF2 ‘Panel’ and HF5 ‘Device Interface.’

Making control panel GPI input settings

Use the following procedure.

- 1** In the Panel>Device Interface menu, press [GPI Input].


The GPI Input menu appears.


- 2** Using any of the following methods, select the settings.


- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.


| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------|
| 1 | Port | Port selection | 1 to 8 |

3 In the <Trigger Type> group, select the trigger type.

 **(Rising Edge):** Apply the trigger on a rising edge of an input pulse.

 **(Falling Edge):** Apply the trigger on a falling edge of an input pulse.

 **(Any Edge):** Apply the trigger on a change in the polarity of the input signal.

 **(Level):** Carry out the specified operation when the input is low or high.

No Operation: Apply no trigger on an input pulse.

4 In the <Target> group, select the action block.

M/E-1, M/E-2, M/E-3, P/P: Set the action for one of the banks.

Common/Setup: Set an action for something other than the above, or a setup action.

5 Using any of the following methods, select the action to be set.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|-------------------------|---|
| 2 | Action | Action selection | 1 and upwards ^{a)} |
| 4 | Aux Bus No | Aux bus selection | 1 to 48 ^{e)} |
| 5 | Reg No | Register number | 1 to 4 ^{b)} 1 to 99 ^{c)} 1 to 399 ^{d)} |
| 5 | Src No | Source signal selection | 1 and upwards ^{e)} |

a) • **Action list when the trigger type is other than “Level”**

When Target is M/E-1, M/E-2, or M/E-3: Cut, Auto Trans

Key1 Cut, Key2 Cut, Key3 Cut, Key4 Cut

Key1 Auto Trans, Key2 Auto Trans, Key3 Auto Trans, Key4 Auto Trans

Key1 SS ? Recall, Key2 SS ? Recall, Key3 SS ? Recall, Key4 SS ? Recall

When Target is P/P: Cut, Auto Trans

DSK1 Cut, DSK2 Cut, DSK3 Cut, DSK4 Cut

DSK1 Auto Trans, DSK2 Auto Trans, DSK3 Auto Trans, DSK4 Auto Trans

DSK1 SS ? Recall, DSK2 SS ? Recall, DSK3 SS ? Recall, DSK4 SS ? Recall

FTB Cut, FTB Auto Trans

When Target is Common/Setup: Master SS ? Recall, Master Effect ? Recall, SS ?

Recall, Effect ? Recall, Effect ? Recall & Run, KF Run, KF Stop, KF Rewind, FM

Src1 Frame Freeze, FM Src1 Field Freeze, FM Src1 Freeze Off, FM Src2 Frame

Freeze, FM Src2 Field Freeze, FM Src2 Freeze Off, Shotbox ? Recall, Macro

Take, No Action

- **Action list when the trigger type is only “Rising Edge” or “Falling Edge”**

Aux ? O’ride Src ??

- **Action list when the trigger type is “Level”**

When Target is M/E-1, M/E-2, M/E-3, or P/P: No Action

When Target is Common/Setup: Format (Overall system settings, frame/field rate, number of lines)

Aspect (overall system settings), Simul, Level Enable, No Action

Notes

- “Level Enable” is a function that determines whether GPI inputs are enabled (“Enable”) or disabled (“Disable”) for the “Aspect” and “Format” actions that can be used when the trigger type is Level. When Level Enable is used, if the input is “Disable” then it is not possible to switch “Aspect” or “Format” by GPI input. If a GPI to switch “Aspect” or “Format” occurs when powering the system off, the action triggered by the GPI may start immediately before the power goes off and the power may go off before the action is completed. This may corrupt the setup settings. It is therefore recommended to use Level Enable to avoid such a situation.
- As for “Aux ? O’ride Src ??,” when “Rising Edge” is selected, on a rising edge the set AUX bus primary input is used. On a falling edge, the original state of the cross-point is restored. If the GPI trigger is applied repeatedly at short intervals (0.5 second or less), the cross-point switching may not be carried out correctly. In this case, apply the GPI trigger again.

b) When knob 2 selection is “Key Snapshot”

c) When knob 2 selection is “Snapshot” or “Shotbox”

d) When knob 2 selection is “Effect”

e) When knob 2 selection is “Aux ? O’ride Src ??”

6 Press [Action Set] to confirm the action selection.

The selected setting appears in the status area.

Carrying out level settings

To set the low level and high level, first set the trigger type to “Level,” then use the following procedure.

- 1 In the Panel>Device Interface menu, select the action to be set, and press [H/L Set].

The H/L Set menu appears.

- 2 Using any of the following methods, select the settings.

- Press directly on the list appearing in the status area.

- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | No | Signal format/screen aspect ratio selection | 1 and upwards |

- 3** To apply the selection made in step **2** when the input is the GPI high level, press [H Set]. To apply the selection made in step **2** when the input is low, press [L Set].

This confirms the setting, which appears in the status area.

Making control panel GPI output settings

Use the following procedure.

- 1** In the Panel>Device Interface menu, press [GPI Output].


The GPI Output menu appears.


- 2** Using any of the following methods, select the settings.


- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------|
| 1 | Port | Port selection | 1 to 8 |

- 3** In the <Trigger Type> group, select the trigger polarity.

 **(Rising Edge):** The trigger causes the relay contacts to be open-circuit or drives the output high, and holds this state for the specified pulse width.

 **(Falling Edge):** The trigger causes the relay contacts to be shorted or drives the output low, and holds this state for the specified pulse width.

 **(Any Edge):** Each time the trigger occurs, the relay contacts are alternately closed or opened, or the output is switched between high and low.

Status: Depending on the status, the relay contacts are closed or opened, or the output is switched between high and low.

No Operation: The trigger has no effect on the relay state or output level.

- 4** Turning the knobs, select the pulse width and timing to be set.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---------------|----------------------|
| 3 | Pulse Width | Pulse width | 1 to 60 (fields) |
| 4 | Timing | Output timing | 1 to 3 ^{a)} |

a) 1: Field 1, 2: Field 2, 3: Any

When “ ∞ ” is selected as the trigger polarity, there is no Pulse Width setting. When “Status” is selected, there is no Pulse Width or Timing setting.

5 In the <Source> group, select the action block.

M/E-1 to M/E-3 and P/P: Set an action for the M/E or PGM/PST bank.

Common: Set an action for error status.

6 Using any of the following methods, select the action to be set.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|-----------------------------|
| 2 | Action | Action selection | 1 and upwards ^{a)} |
| 5 | Reg No | Register number | 1 to 4 ^{b)} |

a) • **Action list when the trigger type is other than “Status”**

When Source is M/E-1, M/E-2, or M/E-3: Key1 SS ? Recall, Key2 SS ? Recall, Key3 SS ? Recall, Key4 SS ? Recall, No Action

When Source is P/P: DSK1 SS ? Recall, DSK2 SS ? Recall, DSK3 SS ? Recall, DSK4 SS ? Recall, No Action

When Source is Common: KF Run, No Action

• **Action list when the trigger type is “Status”**

When Source is M/E-1, M/E-2, or M/E-3: Key1 SS ? Recall, Key2 SS ? Recall, Key3 SS ? Recall, Key4 SS ? Recall

Key1 On, Key2 On, Key3 On, Key4 On, No Action

When Source is P/P: DSK1 SS ? Recall, DSK2 SS ? Recall, DSK3 SS ? Recall, DSK4 SS ? Recall

DSK1 On, DSK2 On, DSK3 On, DSK4 On, No Action

When Source is Common: Error Make, Error Break, No Action

b) When knob 2 selection is “Key Snapshot”

7 Press [Action Set] to confirm the action selection.

The selected setting appears in the status area.

Test firing the trigger

To test fire the trigger, press [Test Fire].

This outputs a trigger from the selected output port. This is not output when the trigger type is “Status.”

Setting the control mode for P-Bus devices

In the <P-Bus Control> group of the Panel>Device Interface menu, select the mode.

Trigger: When a predetermined button is pressed, the action command assigned to that button is output, to control an external device.

Timeline: The external device is controlled as a keyframe effect controlled by the center control panel.

Setting the SCU editor panel port

When an editing keyboard is used, this port setting is for the editing keyboard if the license for the BZS-8050 is valid (*see page 285*), and for the serial tally if the license for the BZS-8050 is invalid.

If you want to use the port setting for the serial tally when the license for the BZS-8050 is valid, select [Serial Tally] from the <Editor Port Assign> group in the Panel>Device Interface menu.

Serial Tally: Use the SCU editor panel port for the serial tally.

Editor Keyboard: Use the SCU editor panel port for the editing keyboard.

Making DCU serial port settings

You can assign buttons in the device control block (DEV1 to DEV12) to DCU serial ports, to operate the devices (disk recorder/VTR/Extended VTR) connected to these ports. For a disk recorder/Extended VTR, you can also set the sharing of file lists.

For details of DCU serial port settings, see “Serial Port Settings (Serial Port Assign Menu)” (page 399).

To associate a serial port with a device selection button

1 In the Panel>Device Interface menu, press [DCU Serial Port Assign].

The Serial Port Assign menu appears.

2 Using any of the following methods, select the DCU serial port.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------------|-----------------------------|
| 1 | No | Serial port selection | 1 and upwards ^{a)} |

a) The range of the setting value depends on the DCU port settings.

The DCU number, slot number, and serial port number appear.

3 Select the device selection button to be assigned from the <Assign> group.

Notes

- It is not possible to assign more than one device selection button to the same port. The later assigned device selection button takes priority, and the previous selection is invalidated.
- If P-Bus/Mixer ESAM-II is assigned to a serial port, it is not possible to assign a device selection button to that port.

4 Repeat steps 2 and 3 as required to make assignments to other ports.

To select whether to use an editing keyboard

If you want to use an editing keyboard for the selected device, select a port using the same operation as in step 2, then press [Plug-In Editor Enbl] to display “Enbl” in the Editor column. If you do not want to use an editing keyboard, press [Plug-In Editor Enbl] to make the “Enbl” display disappear.

Notes

- This selection is possible when the BZS-8050 license is valid (*see page 285*).
- A port to which Mixer ESAM-II is assigned is automatically set to Enbl, and you cannot change this setting.

Sharing disk recorder/Extended VTR file lists

To share files between devices connected to the same disk recorder/Extended VTR, use the following procedure.

Note

The following operation can only be carried out for the ports to which a disk recorder or Extended VTR is assigned.

1 In the Panel>Device Interface>Serial Port Assign menu, select the target disk recorder/Extended VTR.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------------|-----------------------------|
| 1 | No | Serial port selection | 1 and upwards ^{a)} |

a) The range of the setting value depends on the DCU port settings.



- 2** Turn the knob to select the device selection button (DEV1 to DEV12) for sharing the file list.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 2 | File List | Device selection button for sharing the file list | 1 to 12 |

- 3** Press [Same File List Set].
This is reflected in the file list in the status area.
- 4** Repeat steps **1** to **3** as required to select other devices for sharing the file list.

Operation Settings (Operation Menu)

To make settings relating to panel operation, use the Panel>Operation menu.

To display the Operation menu

In the Engineering Setup menu, select VF2 'Panel' and HF6 'Operation.'
The status area shows the items that can be set and a list of the settings.

Setting the on-air tally

To set the high tally state reflected on the control panel, select either of the following in the <Button Tally> group.

System: The overall system tally state is reflected on the control panel.

Independ: The tally state of the switcher only is reflected on the control panel.

Setting the transition rate display mode

To determine whether to display transition rate values in menus and on the control panel in frames or as timecode values, select either of the following in the <Trans Rate Display> group.

Frame: display in frames.

Timecode: display as timecode (SS:FF).

Making settings relating to effects

To make settings relating to the functions used when carrying out keyframe effect operations, use the following procedure.

- 1 In the Panel>Operation menu, press [Effect Mode].
The Effect Mode menu appears.
The status area shows a list of the items with their settings.

- 2 Make the following settings as required.

Effect recall mode: To select the state of the first keyframe when an effect is recalled, select [Recall] (the first keyframe is not recalled) or [Recall&Rewind] (the first keyframe is recalled) in the <Recall Mode> group.

Automatically turning [EDIT ENBL] off: When an effect is recalled with the [EDIT ENBL] button on, to automatically turn this button off, disabling keyframe editing, turn [Edit Enable Auto Off] on.

Automatic first keyframe insertion: When an empty register is recalled, to automatically insert a first keyframe of the state at that point, turn [1st KF Auto Insert] on.

Automatic effect saving: To automatically save an effect when it is recalled after being edited, turn [Effect Auto Save] on.

Keyframe duration default value: Press [Default KF Duration], then enter the default value from the numeric keypad window.

Setting the first keyframe when a rewind is executed

For P-Bus, GPI, and DDR/VTR timeline operations, to execute the first keyframe when a rewind is carried out, set each external device on in the <REWIND&1st KF> group in the Effect Mode menu.

Note

When an effect is executed by pressing the [RUN] button with this setting on, the first keyframe action is not executed.

GPI: setting for the GPI timeline

P-Bus: setting for the P-Bus timeline

DDR/VTR: setting for the VTR/disk recorder/Extended VTR timeline

Setting the Source and Destination names

To set the Source and Destination names used in the control panel, use the following procedure.

Note

Before carrying out these settings, it is necessary to set the number of the S-Bus description name.

For details of the operation, see “To set the group number of an S-Bus description name” (page 411) under “Setup Relating to Router Interface and Tally.”

- 1** In the <Source/Dest Name> group of the Panel>Operation menu, select the names to be used from the following.

Sw’er Local: Source names set in the Xpt Assign menu, and fixed bus names

S-Bus Descript: Description names set in the router

S-Bus Type + Num: Type + Num set in the router (In this case always eight characters.)

- 2** In the <Name Display Mode> group, select the method of display in the source name displays.

Auto: Optimize display according to number of characters. A name of up to two characters appears as two characters in one line. A name of up to four characters appears as four characters in one line.

Otherwise, up to the first eight characters are shown in two lines.

2 Character: The first two characters appear.

4 Character: The first four characters appear.

To replace a name set in the Xpt Assign menu with an S-Bus description name

Turn [S-Bus Name Link] on. This has such effect that each time a description name is changed on the router, the corresponding source name is automatically changed. Thus, the same description name can always be used both on the router and the switcher.

Even when [Sw’er Local] is selected, the same name as when [S-Bus Descript] is selected can be displayed. The S-Bus description name can also be displayed in the Xpt Assign menu.

Settings for the Flexi Pad

Use the following procedure.

- 1** In the Panel>Operation menu, press [Flexi Pad Mode].

The Flexi Pad Mode menu appears.

The status area shows a list of the items with their settings.

- 2** Make the following settings as required.

Coupling the transition type selection with the Flexi Pad control block mode selection: To make the Flexi Pad mode selection change

automatically when [WIPE] or [DME] is selected in the transition control block, press [Wipe/DME Auto Deleg], turning it on.

Button indications in the memory recall section: When the Flexi Pad control block mode is [WIPE] or [DME], for the button indications in the memory recall section, select [Pattern] or [Register Name] in the <Wipe/DME Display> group. When the mode is [Snapshot], [Effect], or [MCRO], select [Register No] or [Register Name] in the <Snapshot/Effect Display> group.

For details, see the following.

- “Wipe Snapshots” in Chapter 5 (Volume 1)
- “DME Wipe Snapshots” in Chapter 6 (Volume 1)
- the figure of the memory recall section in “Recalling the master timeline in the Flexi Pad control block” (page 196)
- the figure of the memory recall section in “Saving and Recalling Snapshots” (page 246)
- the figure of the memory recall section in “Recalling a Macro Register and Executing a Macro” (page 447).

Setting the button operation mode

Use the following procedure.

- 1 In the Panel>Operation menu, press [Custom Button].

The Custom Button menu appears.

The status area shows a list of the items with their settings.

- 2 Make the following settings as required.

Operation mode of the [ALL] button in the transition control block:

To specify the next transition to be selected by pressing the [ALL] button in the transition control block, press the next transition you want to select, turning it on, in the <Next Trans All> group. If everything here is set to Off, then pressing the [ALL] button does not change the specification of the next transition.

Operation mode during an auto transition: For the operation mode when the [AUTO TRANS] or [TAKE] button is pressed once more during an auto transition, select [Continue] or [Cancel] in the <Auto Trans/Take> group.

Continue: Continue the auto transition.

Cancel: Cancel the auto transition and return to the state before starting the auto transition.

Operation mode during keyframe execution: For the operation mode when the [RUN] button is pressed once more during effect execution, select [Continue] or [Cancel] in the <Run> group.

Continue: Continue the execution.

Cancel: Cancel the execution and return to the state before starting the execution.

Interchanging the [AUTO TRANS] and [CUT] buttons: To interchange the [AUTO TRANS] and [CUT] buttons in the transition control block, press the [Auto Trans/Cut Swap] button, turning it on.

Transition preview operation mode: For the operation mode of the [TRANS PVW] button, select [Lock] or [Hold] in the <Trans Pvw> group. The setting as to whether to use the “One-time mode” in which the transition preview terminates when the transition completes, or to use button control, is made on the switcher side (*see page 364*).

CCP-8000-specific button settings: Press [CCP-8000 Button], and skip to step **3**.

3 If required, make the following settings.

Operating mode during a fade-to-black: To set the operating mode if the [FTB] button is pressed once more during a fade-to-black, select either of the following in the <FTB> group.

Continue: Continue the fade-to-black.

Cancel: Cancel the fade-to-black, and return to the state before executing the fade-to-black.

Operation mode of the [XPT HOLD] buttons in the key rows: Set the operation mode of the [XPT HOLD] buttons in the key rows in the <Key Bus Xpt Hold> group, as follows.

Normal: The <Xpt Hold Mode> in the Switcher>Key/Wipe/FM menu is enabled.

Protect: In this mode, pressing a panel button cannot change the cross-point settings.

Note

The button On/Off state is preserved in each of the “Normal” and “Protect” modes. For example, if the [XPT HOLD] buttons are “On” in the Normal mode, and you switch to Protect mode, then if the [XPT HOLD] buttons were “Off” in this mode the previous time, the [XPT HOLD] buttons go off, and if they were “On” they light.

[UTIL] button operation mode: To set the operation mode of the [UTIL] button in the cross-point control block, press either of the following in the <Util Button> group.

Hold: Acts as a utility button while held down, changing the assignment of the cross-point button rows.

Lock: For the key rows, each time the button is pressed the cross-point button assignment toggles between the utility assignment and the normal assignment. The background A and B rows are fixedly assigned to the A and B rows, even if the [UTIL] button is pressed.

(For details, see “Names and Functions of Parts of the Control Panel” in Chapter 2 (Volume 1).)

Setting trackball, joystick, and double-click sensitivity

Use the following procedure.

- 1 In the Panel>Operation menu, press the [Sensitivity].

The Sensitivity menu appears.

The status area shows a list of the items with their settings.

- 2 Make the following settings as required.

Trackball and Z-ring sensitivity in normal mode: In the <Trackball Normal Mode> group, select [$\times 1$], [$\times 2$], or [$\times 4$].

Trackball and Z-ring sensitivity in fine mode: In the <Trackball Fine Mode> group, select [$1/2$], [$1/4$], or [$1/8$].

Joystick sensitivity in normal mode: In the <Joystick Normal Mode> group, select [$\times 1$], [$\times 2$], or [$\times 4$].

Joystick sensitivity in fine mode: In the <Joystick Fine Mode> group, select [$1/2$], [$1/4$], or [$1/8$].

Touch sensitivity for recalling menus by double-clicking buttons: In the <Double Click> group, select [Fast], [Normal], or [Slow].

Specifying main split fader

In the <Main Split Fader> group of the Panel>Operation menu, select [Left] or [Right].

Setting the macro execution mode

Use the following procedure.

- 1 Press [Macro] in the Panel>Operation menu.

The Macro menu appears.

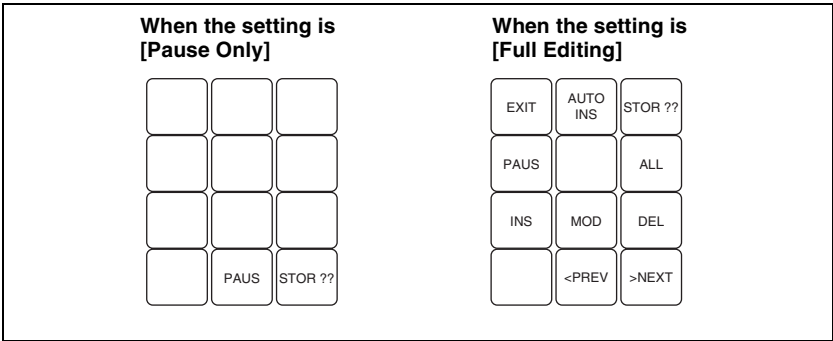
- 2 In the <Macro Execution Mode> group, select the macro execution mode.

Normal: normal execution mode

Step: step execution mode

- 3 In the <Flexi Pad Edit Mode> group, set the macro editing mode of the standard type Flexi Pad to [Pause Only] or [Full Editing].

This enables the standard type Flexi Pad control block to be used for macro editing. Depending on the macro editing mode setting, functions are assigned to the memory recall buttons as shown in the following figure.



Screen Saver and Other Settings (Maintenance Menu)

To make settings relating to the screen saver, etc., use the Panel>Maintenance menu.

To display the Maintenance menu

In the Engineering Setup menu, select VF2 ‘Panel’ and HF7 ‘Maintenance.’ The status area shows a list of the items with their settings.

Screen saver settings

To enable the menu screen saver, use the following procedure.

- 1 In the Panel>Maintenance menu, press [Screen Saver], turning it on.
- 2 Adjust the following parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|--|--------------------|
| 1 | Sleep Time | Time until screen saver starts operation | 1 to 300 (minutes) |

Adjusting the brightness

You can adjust each of the following brightnesses independently.
LCD: Adjust the brightness of the source name displays and the LCD buttons in the Flexi Pad control block.

LED: Adjust the brightness of the LED displays in the numeric keypad control block and so forth.

Switch: Adjust the brightness of the panel switches.

The following description takes the LCD brightness as an example. Use a similar process for the other adjustments.

1 In the Panel>Maintenance menu, press [LCD Brightness].

2 Adjust the following parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|------------------------|----------------------|
| 1 | Brightness | Menu screen brightness | 1 to 5 ^{a)} |

a) The larger the value, the brighter the screen.

Adjusting the alarms

In the Panel>Maintenance menu, make the following settings.

To give audible feedback from menu touch screen operations: Press [Touch Beep], turning it on.

Calibrating the touch panel

Use the following procedure.

1 In the Panel>Maintenance menu, press [Touch Panel Calibration].

The following message appears.

“To Perform Calibration, please touch the center of each plus sign.”

2 Press [Yes].

3 Press the center of the plus sign displayed on the screen.

When you press on the plus sign, it disappears and a diagonally opposite plus sign appears.

4 Press the center of the plus sign.

A confirmation message appears.

- Select “Yes” to restart the panel reflecting the new setting.
- Select “No” to cancel the setting and return to the Maintenance menu.

Setup Relating to Switcher Processor

Settings for Switcher Configuration (Config Menu)

To make settings for the switcher processor configuration, use the Switcher>Config menu.

To display the Config menu

In the Engineering Setup menu, select VF3 'Switcher' and HF1 'Config.'
The status area shows the output signal assignment for each of the M/E and PGM/PST banks.

Adjusting the reference phase

To adjust the switcher internal reference phase, in the Switcher>Config menu, set the following parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------------------------|------------------|
| 3 | Phase | Switcher internal reference phase | -32.00 to +96.00 |

Specifying the video switching timing

In the <Switching Timing> group of the Switcher>Config menu, select one of the following.

Any: Not specified

Field 1: Field 1 (odd fields)

Field 2: Field 2 (even fields)

Note

When the "Active Line" setting is 720p or 1080PsF, this selection is not possible.

Setting the operation mode

In the <M/E Config> group of the Switcher>Config menu, select the operation mode for each M/E or P/P bank from the following.

- Standard mode
- Multi Program mode
- DSK mode (P/P only)

For details of the modes, see "Switcher Setup" in Chapter 1 (Volume 1).

Note

When Multi Program mode is selected, two or more transition type indication may light. It is also possible that more than one “Transition Type” has been selected in the Misc>Transition menu for each M/E.

To assign the output of each bank in Multi Program mode

When you selected [Multi Program] in the procedure described in “Setting the operation mode” (page 352), use the following procedure.

- 1** In the Switcher>Config menu, press [M/E Output Assign].
The M/E Output Assign menu appears.
- 2** On the list in the status area, select the bank output to be assigned.
The selected output appears in reverse video.
- 3** In the <M/E Output Assign> group, select the output signal to be assigned.

To set the output configuration for each bank

When you selected [Multi Program] or [DSK] in the procedure described in “Setting the operation mode” (page 352), use the following procedure.

- 1** In the Switcher>Config menu, press [PGM Config].
The PGM Config menu appears.
The status area shows the background and key configuration assigned to the output of each bank.
- 2** Using either of the following methods, select the output for which you want to make the setting.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------------------------|----------------|
| 1 | No (PGM) | Output to which setting applies | 1 to 16 |

The selected output appears in reverse video.

- 3** In the <Bkgd> group, select the background.
In Multi Program mode, select [Clean] or [Utility2], then skip to step **5**.
In DSK mode, select one of [Bkgd1] to [Bkgd4].
- 4** In DSK mode, turn the knobs to select the background signal.



| Knob | Parameter | Adjustment | Setting values |
|--------|------------|-----------------------------|-----------------------|
| 2 to 5 | Bkgd1 to 4 | Background signal selection | 1 to 18 ^{a)} |

a) 1 to 6: M/E1 OUT1 to 6
7 to 12: M/E2 OUT1 to 6
13 to 18: M/E3 OUT1 to 6

- 5** In each of the <Key1> to <Key4> groups, select [Enable] or [Disable].

To set the key preview configuration

You can make this setting at any time, regardless of the operation mode.

- 1** In the Switcher>Config menu, press [K-PVW Config].

The K-PVW Config menu appears.

The status area shows the key preview configuration for each bank.

- 2** Using either of the following methods, select the key preview to which the settings apply.

- Press directly on the list appearing in the status area to make the selection.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|--------------------------------------|----------------|
| 1 | No (K-PVW) | Key preview to which setting applies | 1 to 8 |

The selected key preview appears in reverse video.

- 3** In the <Mode> group, select [Video] mode or [Key] mode.

If you select Key mode, skip to step **6**.

- 4** In the <Bkgd> group, select the background.

In standard mode or Multi Program mode, select [Clean] or [Utility2], then skip to step **6**.

In DSK mode, select any of [Bkgd1] to [Bkgd4].

- 5** In DSK mode, turn the knobs to select the background signal.

| Knob | Parameter | Adjustment | Setting values |
|--------|------------|-----------------------------|-----------------------|
| 2 to 5 | Bkgd1 to 4 | Background signal selection | 1 to 18 ^{a)} |

- a) 1 to 6: M/E1 OUT1 to 6
 7 to 12: M/E2 OUT1 to 6
 13 to 18: M/E3 OUT1 to 6

- 6** In the <Key 1> to <Key 4> groups, select the corresponding key status from the following.

Link: Follow the key on/off setting.

On: Key is always on.

Off: Key is always off.

Setting user regions

Note

If you change the user region settings, the previously stored snapshot data and keyframe effect data can no longer be used.

Use the following procedure.

- 1** In the Switcher>Config menu, press [User1-8 Config].

The User1-8 Config menu appears. The status area shows the region names and assigned user region numbers.

- 2** Using any of the following methods, select the region you want to set.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|----------------|
| 1 | Region | Region selection | 1 and upwards |

- 3** In the <User Region Assign> group, select the user region you want to assign. If you do not want to assign a user region, select [No Assign].

- 4** Repeat steps **2** and **3** as required to make the settings for other regions.

- 5** To confirm the setting, press [Execute]. To cancel the setting and return to the original state, press [Clear] without pressing [Execute].

When you press [Execute], a confirmation message appears.

- 6** Press [Yes].

This assigns a region to a user region.

Assigning PGM/PST logically to an M/E

Use the following procedure.

- 1** In the Switcher>Config menu, press [Logical M/E Assign].
The Logical M/E Assign menu appears. The status area shows the physical M/E and logical M/E organization.
- 2** Select the M/E you want to logically set to the PGM/PST from the <Logical M/E to Physical P/P> group.
P/P: Assign the physical PGM/PST as logical PGM/PST.
M/E-1: Assign the physical PGM/PST as logical M/E-1.
M/E-2: Assign the physical PGM/PST as logical M/E-2.
M/E-3: Assign the physical PGM/PST as logical M/E-3.

Setting the assignments of DME channels to use on the individual M/E banks

The Switcher>Config>DME Config menu allows you to select the DME channels to use on the M/E and PGM/PST banks for processed keys or DME wipes.

Use the following procedure.

- 1** In the Switcher>Config menu, press [DME Config].
The DME Config menu appears.
- 2** Using either of the following methods, select the M/E or PGM/PST bank for which you want to set a DME channel assignment.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
- 3** In the <DME Channel> group, press one of the [Ch1] to [Ch8] buttons turning it on.
The corresponding DME channel is assigned to the M/E or PGM/PST bank selected in step **2**.
- 4** Repeat steps **2** and **3** to assign DME channels to other banks.

Setting the side flag video material and operation

Make settings relating to the video material (4:3 aspect ratio) for applying side flags.

Note

These settings are valid only on the MVS-8000A; not valid on the MVS-8000.

For details of side flag operations, see “Side Flag Settings” in Chapter 10 (Volume 1).

To set the aspect ratio (4:3/16:9)

Use the following procedure.

- 1** In the Switcher>Config menu, press [Side Flags].

The Side Flags menu appears.

The status area lists the video/key pair numbers, video signal source names, and aspect ratio settings (16:9/4:3).

- 2** Using any of the following methods, select the pair number for which you want to make the setting.

- Press directly on the list in the status area.
- Use the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---|----------------|
| 1 | V/K Pair No | Selection of a V/K pair by its number in the list | 1 to 128 |
| 3 | Num | Selection of number of V/K pairs in the list | 1 to 128 |

- To select all of the pair numbers, press [ALL].

- 3** In the <Aspect> group, press [4:3].

If you select [16:9], no side flags are applied.

To set 4:3 video material to have side flags applied automatically

You can make a setting so that when a signal with aspect ratio set to 4:3 is selected in the cross-point control block, side flags are automatically applied. To do so, in the Switcher >Config >Side Flags menu press [Auto Side Flags]. Pressing this button toggles the setting on and off.

This setting applies to all of the M/E and PGM/PST banks.

To set to crop to 4:3 when a DME wipe is executed

When side flags are enabled, you can automatically crop an image as set to be a 4:3 image when executing a DME wipe.

To do so, in the Switcher>Config>Side Flags menu press [Auto Crop].

Pressing this button toggles the setting on and off.

This setting applies to all of the M/E and PGM/PST banks.

To adjust the width of the side flags

You can adjust the width of the side flags. Use the following procedure.

- 1** In the Switcher>Config>Side Flags menu, press [Width].
- 2** Adjust the following parameters.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------------|--------------------|
| 3 | Left | Width of left side flag | -100.00 to +100.00 |
| 4 | Right | Width of right side flag | -100.00 to +100.00 |
| 5 | All | Width of both side flags | Left value shown |

To display the menu for enabling/disabling the side flags

In the Switcher>Config>Side Flags menu, press [Misc>Enbl>Setup Flags].

To display the menu for assigning the side flags on/off function to a cross-point button

In the Switcher>Config>Side Flags menu, press [Side Flags Button Assign].

Signal Input Settings (Input Menu)

For setup relating to signal inputs, use the Switcher>Input menu.

To display the Input menu

In the Engineering Setup menu, select VF3 'Switcher' and HF2 'Input.'
The status area shows source numbers and source names, input signal phase, and through mode on/off setting.

Making phase adjustment and through mode settings

Use the following procedure.

- 1** In the Switcher>Input menu, select the input signal to which the settings apply.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------|----------------|
| 1 | Src No | Input signal selection | 1 to 80 |

The selected input signal appears in reverse video.

- 2** Press [Input Phase Adj].
- 3** To adjust the phase, adjust the following parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------|----------------|
| 2 | Phase | Input signal phase | -16 to +16 |

- 4** To enable through mode, press [Through Mode], turning it on.

Making video process settings

Use the following procedure.

- 1** In the Switcher>Input menu, press [Video Process].
The Video Process menu appears.
The status area shows the source number, source name, and video process adjustment settings.
- 2** Using any of the following methods, select the input signal to which the settings apply.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

Parameter group [2/2]

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------|----------------|
| 1 | Src No | Input signal selection | 1 to 80 |

- 3** Press [Video Process], turning it on.
- 4** Adjust the following parameters.

Parameter group [1/2]

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|-------------------------|--------------------|
| 1 | Video Gain | Video signal gain | -200.00 to +200.00 |
| 2 | Y Gain | Y signal gain | -200.00 to +200.00 |
| 3 | C Gain | Chrominance signal gain | -200.00 to +200.00 |
| 4 | Hue Delay | Hue delay | -180.00 to +180.00 |
| 5 | Black Level | Black level | -7.31 to +109.59 |

To set the parameter settings to their defaults, press [Unity].

Enabling the illegal color limiter

To enable the illegal color limiter for the signals generated by the switcher internal matte generator, press [Matte Illeg Col Limit] in the Switcher>Input menu, turning it on.

Signal Output Settings (Output Menu)

For setup relating to signal outputs, use the Switcher>Output menu.

To display the Output menu

In the Engineering Setup menu, select VF3 'Switcher' and HF3 'Output.'

The status area shows the output signal numbers and names, and output signal phase for the signals output from Output 1 to 48.

Assigning output signals

To assign a signal to output from an output port, use the following procedure.

- 1** In the Switcher>Output menu, press [Output Assign].

The Output Assign menu appears.

The status area shows the output ports and assigned signals on the left, and a list of signals that can be assigned on the right.

- 2** In the <Output Assign> group, select either of the following.

[Re-Entry Source]: It is possible to make duplicate assignments.

M/E-1 Output 1 to 6 ^{a)}

M/E-2 Output 1 to 6 ^{a)}

M/E-3 Output 1 to 6 ^{a)}

PGM/PST 1 to 6 ^{a)}

DME Monitor Video

DME Monitor Key

a) M/E output signals selected in the M/E Output Assign menu.

[Aux Bus]: It is not possible to make duplicate assignments.

Preset

Edit Preview

AUX 1 to 48

- 3** Using any of the following methods, select the output port number and signal to be assigned.

- Press directly on the list appearing in the status area to make the selection.

- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------------------|----------------|
| 1 | Output No | Output port number | 1 to 48 |
| 2 | Source No | Selection of signal to be assigned | 1 and upwards |

- For output ports not to be assigned, press [Inhibit].

The selected signal appears in reverse video.

4 Press [Set] to confirm the assignment.

Selecting the output signal to which settings apply

In the following adjustment/setting operations except for “*Setting the reference output*” (see page 363), use any of the following methods to select the output signal before making the setting.

- Press directly on the list in the status area.
- Press the arrow keys to move the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------------|----------------|
| 1 | Output No | Output port number selection | 1 to 48 |

The selected output signal appears in reverse video.

Adjusting the video clip

To adjust the clip value for each of the output signals from the Output 1 to 48 ports, use the following procedure.

1 In the Switcher>Output menu, press [Video Clip].

The Video Clip menu appears.

The status area shows the output ports and assigned signals, and the white clip, dark clip, and chrominance clip values.

2 Adjust the following parameters.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|-----------------------------------|-----------------|
| 2 | White Clip | Luminance signal white clip value | 90.00 to 109.02 |
| 3 | Dark Clip | Luminance signal dark clip value | −6.85 to +10.00 |
| 4 | Chroma Clip | Chrominance signal clip value | 90.00 to 113.17 |

To set the values to the default values, press [Default].

Making vertical blanking interval adjustment and through mode settings

Use the following procedure.

- 1 In the Switcher>Output menu, press [V Blank/Through].

The V Blank/Through menu appears.

The status area shows the output ports and the assigned signals, the vertical blanking interval, and the through mode Enable/Disable status.

- 2 Press [V Blank Mask].

- 3 Adjust the parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--|-------------------|
| 2 | Mask End | Final value for vertical blanking interval | See note a) below |

a) Depending on the signal format, the adjustment range varies as follows.

- **480i:** 10 to 19
- **576i:** 6 to 22
- **1080i:** 7 to 20
- **720p:** 7 to 25

To return the values to their defaults, press [Default].

- 4 To enable the through mode, press [Through Mode], setting it to Enable. The through mode can be applied to the following outputs.

- Aux 1 to 48 outputs
- Program outputs of the M/E and PGM/PST rows
- Clean outputs of the M/E and PGM/PST rows

Making safe title settings

Use the following procedure.

- 1 In the Switcher>Output menu, press [Safe Title].

The Safe Title menu appears.

The status area shows the output ports and the assigned signals, with the box 1, box 2, and cross states.

- 2 To enable the safe title on/off setting made in the Misc menu, press [Safe Title], turning it on.

- 3 Carry out either of the following operations.

To display a box: Press [Box1] or [Box2], turning it on.

In this case, carry out the following steps **4** and **5**.

To display a cross: Press [Cross], turning it on.

- 4** When you selected [Box1] or [Box2] in step **3**, adjust the following parameters.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------|------------------------------|
| 2 | Box Size | Box size | 50.00 to 100.00 |
| 3 | Luminance | Display brightness | 0.00 to 100.00 ^{a)} |

a) Adjustable for Box2

- 5** When in step **3** you selected [Box1] or [Box2], in the <Box1 Adjust> or <Box2 Adjust> group, select the aspect ratio (16:9/14:9/4:3).

Setting the reference output

To adjust the reference output phase with respect to the reference input, adjust the following parameters in the Switcher>Output menu.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------|------------------|
| 2 | Line | Line phase | -90 to +90 |
| 3 | Time | Time | -32.00 to +96.00 |

Cropping the image to a 4:3 aspect ratio in an HD system

In an HD system, to crop an image having a screen aspect ratio of 4:3 to an aspect ratio of 4:3, use the following procedure.

- 1** In the Output menu, press [4:3 Crop].

The Output 4:3 Crop menu appears.

The status area shows the output ports and respective 4:3 Crop mode settings.

- 2** Press [4:3 Crop], turning it on.

This enables the crop setting, and this is reflected in the status area.

Note

When the screen aspect ratio of 16:9 is selected for all M/E banks in the System>Format>Active Line/Aspect menu, the setting of 4:3 Crop is disabled.

Settings Relating to Video Switching (Transition Menu)

For settings relating to video switching, use the Switcher>Transition menu.

To display the Transition menu

In the Engineering Setup menu, select VF3 ‘Switcher’ and HF4 ‘Transition.’ The status area shows the transition preview, key transition, bus toggle, and split fader settings for each M/E and P/P bank.

Selecting the bank to which the settings apply

In the Transition menu, using any of the following methods, select the bank to which the settings apply, then make the settings.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--|----------------|
| 1 | Bank | M/E or P/P selection to which settings apply | 1 to 4 |

The selected bank appears in reverse video.

Setting the transition preview mode

To select the transition preview mode, in the <Transition Preview> group of the Transition menu, select either of the following.

One Time: The transition preview ends after a single transition.

Normal: Switching the [TRANS PVW] button on or off switches between the transition preview mode and the normal mode.

Selecting the transition mode of the independent key transition control block

To select the key transition mode, select either of the following in the <Key Transition> group of the Transition menu.

Same: The transition settings for the On and Off directions are the same.

Independent: The transition settings for the On and Off directions can be set separately.

Selecting the background transition flip-flop mode

In the Transition menu, press [Bus Toggle], to switch between on and off.

On: Flip-flop mode

Off: Bus fixed mode

For more details, see “Flip-flop mode and bus fixed mode” in Chapter 1 (Volume 1).

Setting the split fader to be enabled or disabled

In the Transition menu, press [Split Fader] to switch between Enable and Disable. This setting is only valid when using a simple transition module with Bus Toggle set to Off.

Enable: When the fader lever is split, the split fader effect is enabled.

Disable: Even when the fader lever is split, the normal fader lever effect is obtained.

Enabling or disabling the fade-to-black function

In the <FTB> group of the Transition menu, press the program output name to toggle between On and Off.

On: When the [FTB] button is pressed, a fade-to-black is carried out.

Off: Even when the [FTB] button is pressed, no fade-to-black is carried out.

Note

The PGM2 to PGM4 settings are only valid in Multi Program mode or DSK mode.

Setting a preset color mix

Use the following procedure.

- 1 In the Switcher>Transition menu, press [Preset Color Mix].

The Preset Color Mix menu appears.

The status area shows the stroke mode setting for each M/E bank, the setting for whether or not the key status is maintained, and the one-time mode setting.

- 2 In the <Stroke Mode> group, select whether to carry out a transition in one stroke or two strokes.

Normal: Carry out a preset color mix with two transition operations.

Single: Carry out a preset color mix with a single transition operation.

Note

In bus fixed mode (see page 364), the setting is fixed to “Single.”

- 3 In the <Non Drop Key> group, select the key setting for a transition including a key.

To carry out the transition with the key state maintained, press [Key1] to [Key4], turning them on. (See “Transition Types” in Chapter 1 (Volume 1).)

- 4 If each time a transition ends the transition type is to return to the previous setting, press [One Time Enable].

Settings relating to fader lever operations

To select the way in which the fader lever position and the transition progress are related, use the following procedure.

- 1 In the Switcher>Transition menu, press [Transition Curve].

The Transition Curve menu appears.

- 2 In the <Fader Curve> group, select the fader lever operation mode.

Normal: The transition progress is linear, according to the fader lever position. (Factory default setting)

Adv Tally Mode: When the fader lever is moved from the end of its travel, the tally is output slightly before the transition starts.

Settings Relating to Keys, Wipes and Frame Memory (Key/Wipe/FM Menu)

For settings relating to keys, wipes and frame memory, use the Switcher>Key/Wipe/FM menu.

To display the Key/Wipe/FM menu

In the Engineering Setup menu, select VF3 ‘Switcher’ and HF5 ‘Key/Wipe/FM.’

The status area shows the key memory settings, mask and border processing order, key priority, cross-point hold, pattern limit transition, and wipe edge settings for each of the M/E and PGM/PST banks.

Switching video process memory on or off

In the Switcher>Key/Wipe/FM menu, press [Video Proc Memory], turning it on. (See also “Switcher Setup” in Chapter 1 (Volume 1).)

Settings for the show key function

Use the following procedure.

- 1** In the Switcher>Key/Wipe/FM menu, press [Show Key].
The Show Key menu appears.
- 2** In the <Show Key Enable> group, press the signal for which “show key” is enabled, turning it on.
- 3** To set the time for which “show key” is held, press [Hold Time].
- 4** Adjust the following parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------|-------------------|
| 1 | Hold Time | Show key hold time | 0 to 999 (frames) |

Settings for DSK auto drop function

Use the following procedure.

- 1** In the Switcher>Key/Wipe/FM menu, press [DSK Auto Drop].
The DSK Auto Drop menu appears.
- 2** In the <DSK Auto Drop> group, press one of [DSK1] to [DSK4] for which you want the DSK to be deleted automatically, turning it on.

Automatically naming and saving to frame memory

In the Switcher>Key/Wipe/FM menu, press [FM Auto Store], turning it on.

Selecting the bank to which the settings apply

For the section “Selecting the key memory mode” and subsequent sections, select the bank to which the settings apply using any of the following methods, then make the settings.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--|----------------|
| 1 | Bank | M/E or P/P selection to which settings apply | 1 to 4 |

The selected bank appears in reverse video.

Selecting the key memory mode

In the <Key Memory> group of the Switcher>Key/Wipe/FM menu, select one from Full (full mode)/Simple (simple mode)/Off.

For more details, see “Key Memory” in Chapter 1 (Volume 1).

Selecting the processing order of masks and borders

In the <Mask/Border Process> group of the Switcher>Key/Wipe/FM menu, select one of the following.

Mask>Border: Apply the Mask effect, then apply the Border effect.

Border>Mask: Apply the Border effect, then apply the Mask effect.

Selecting the key priority operation mode

In the <Key Priority> group of the Switcher>Key/Wipe/FM menu, select one of the following.

Normal: The key priority sequence can be varied freely.

Fix: Fixed at currently set priority sequence.

Setting the operation mode of the key bus [XPT HOLD] button

In the <Xpt Hold Mode> group of the Switcher>Key/Wipe/FM menu, select any of the following.

Key Disable: The [XPT HOLD] button of the key bus functions not only as a cross-point hold button but also as a key disable button. When the [XPT HOLD] button is on, recalling a snapshot or keyframe effect does not reflect the key settings, including the cross-point selection information.

Key Disable with Status: Same as [Key Disable], and further disables the reflection of the key on/off status.

Xpt Hold: The [XPT HOLD] button of the key bus functions as a cross-point hold button. When the [XPT HOLD] is on, recalling a snapshot or keyframe effect does not reflect the cross-point selection information.

Setting the operation mode when the pattern limit is released

In the <Pattern Limit Transition> group of the Switcher>Key/Wipe/FM menu, select either of the following operation modes.

Auto: When the pattern limit is released, the remainder of the transition is carried out automatically at a special-purpose transition rate.

Manual: After the pattern limit is released, the transition waits for the next operation, then executes. Until you move the fader lever or press [AUTO TRANS], the transition is not executed.

Setting the default wipe edge softness

- 1 In the Switcher>Key/Wipe/FM menu, press [Wipe Edge Default], turning it on.
- 2 Set the following parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------------------------|------------------|
| 3 | Soft | Default value of wipe edge softness | −50.00 to +50.00 |

Settings Relating to Function Links (Link Menu)

Carry out setup relating to links by displaying the Switcher>Link menu.

To display the Link menu

In the Engineering Setup menu, select VF3 ‘Switcher’ and HF6 ‘Link.’
The status area shows the current link information.

Setting a cross-point button link

To link together two buses internal to the switcher, use the following procedure.

- 1 In the Switcher>Link menu, press [Internal Bus Link].
The Internal Bus Link menu appears.
The status area shows the link source and link destination buses, and link table information.
- 2 Using any of the following methods, select what setting applies to.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------|----------------|
| 1 | Link No | Link number | 1 to 64 |

- 3 Press [Link Bus Select].

The Link Bus Select menu appears.
The status area lists the current setting status of the selected link and the buses that can be selected.



- 4** In the <Bus Select> group, select [Master Bus] (link source bus).
- 5** Using any of the following methods, select the bus to be the link source, and press [Bus Set].

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------|------------------------|
| 2 | No | Bus selection | 1 to 174 ^{a)} |

a) Only when [Master Bus] is selected, 171 (M/E-1 Trans PGM), 172 (M/E-2 Trans PGM), 173 (M/E-3 Trans PGM), and 174 (P/P Trans PGM) are available. When [Linked Bus] is selected, 172 to 174 are not available.

Only when [Linked Bus] is selected, 103 (AUX1 as key) to 150 (AUX48 as key), and 159 (MON1 as key) to 166 (MON8 as key) are available. When [Master Bus] is selected, 103 to 150 and 159 to 166 are not available.

Note

With one of 171 to 174 selected for [Master Bus], linking is carried out as soon as you start moving the fader lever.

- 6** In the <Bus Select> group, select [Linked Bus] (link destination bus).
- 7** Referring to step **5**, select the bus to be the link destination, and press [Bus Set].
- 8** Turn the knob to select the link table, and press [Link Table Set].

| Knob | Parameter | Adjustment | Setting values |
|------|---------------|----------------------|----------------|
| 3 | Link Table No | Link table selection | 1 to 8 |

For more information about link tables, see the following item.

The status area reflects the current setting status.

To delete a link

Select the link you want to delete, then press [Clear] in the Internal Bus Link menu.

Making link table settings

Use the following procedure.

- 1** In the Internal Bus Link menu, press [Link Table Select].

The Link Table Select menu appears.

- 2** Using any of the following methods, select the link source and link destination signals.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 4 | Main No | Video/key signal for link source ^{a)} | 1 to 128 |
| 5 | No | Video/key signal for link destination ^{a)} | 1 to 128 |

a) When the selected bus has a key source bus set, a key signal is displayed; when other buses are selected, a video signal is displayed.

- 3** To confirm the selection, press [Link Src Set].

This links the link destination signal to the signal selected as Main No.

To initialize the set source address

Press [Init Link Table].

A confirmation message appears; press [Yes].

The source addresses are reassigned, and this is reflected in the status area.

To change the link number and link table number

In this menu too, you can change the link number and link table number. To do this, turn the knobs as follows to make the setting, then press [Link Table Set].

| Knob | Parameter | Adjustment | Setting values |
|------|---------------|-------------------------------|----------------|
| 1 | Link No | Link to which setting applies | 1 to 64 |
| 3 | Link Table No | Link table selection | 1 to 8 |

Linking cross-point buttons and GPI output ports

To link cross-point buttons or the [CUT] and [AUTO TRANS] buttons in the cross-point control block, and GPI output ports, use the following procedure.

- 1** In the Switcher>Link menu, press [GPI Link], to display the Switcher>Link>GPI Link menu.

The status area shows the output ports and the link status, and delay value information.

- 2** Using any of the following methods, select the GPI output port.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.

- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------------------|----------------|
| 1 | GPI Port | GPI output port selection | 1 to 8 |

3 Press [GPI Link Adjust].

The GPI Link Adjust menu appears.

The status area shows the current setting state of the selected link, and a list of the selectable video names or button names, together with the GPI link Enable/Disable setting for each bus.

4 Using any of the following methods, select what the setting applies to. For each GPI port there can be up to eight links.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------------|--|------------------------|
| 1 | GPI Port | GPI output port selection | 1 to 8 |
| 2 | Link No | Link number selection | 1 to 8 |
| 3 | Video/Button No | Selection of video or button name to be linked | 1 to 136 ^{a)} |

a) These include main pair numbers 1 to 128, and “Cut” and “Auto Trans” on each bank.

5 In the <Video/Button> group, press [Select].

The selected video or button name is reflected in the status area.

To clear a video/button name link

Make the selection to which the setting applies, then in the <Video/Button> group press [Clear].

6 To select for each bus whether the GPI link setting is enabled or disabled, use any of the following methods to select the bus to which the setting applies.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------|----------------|
| 4 | Bus | Bus selection | 1 to 114 |

7 In the <Bus> group, select any of the following.

Enable: Enable the GPI link setting for the selected bus.

Disable: Disable the GPI link setting for the selected bus.

All Enable: Enable the GPI link setting for all buses.

To set the delay value

Use the following procedure.

- 1** In the GPI Link Adjust menu, turn the knobs to select the output port for which you want to set the delay value, and the corresponding delay value.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------------------------|-------------------|
| 1 | GPI Port | GPI output port for the setting | 1 to 8 |
| 5 | Delay | Delay value for the output port | 0 to 300 (fields) |

- 2** Press [Delay Set].

This confirms the delay value, which is reflected in the status area.

Making a setting for linking two M/E banks

You can link any two M/E banks for some operations by using the Switcher>Link>M/E Link menu.

The operations for which you can link two M/E banks are as follows.

- Transition execution (auto transition, cut, and fader lever operation)
- Next transition selection
- Transition type selection

The default setting is such that the specified banks are linked for transition execution only.

Use the following procedure.

- 1** In the Switcher>Link menu, press [M/E Link].

The M/E Link menu appears.

The status area displays a link list showing link source banks (M/E and PGM/PST) and link destination banks, and a selection list.

- 2** Using any of the following methods, select the link number you want to set.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------------|----------------|
| 1 | Link No | Link number selection | 1 to 8 |

3 In the <M/E Select> group, select [Master M/E] (link source).

4 Using any of the following methods, select the M/E or PGM/PST bank you want to be the link source, then press [M/E Set].

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------------|
| 2 | No | Bank selection | 1 to 4 ^{a)} |

- a) 1: M/E-1
 2: M/E-2
 3: M/E-3
 4: PGM/PST

5 In the <M/E Select> group, select [Linked M/E] (link destination).

6 In the same way as in step **4**, select the M/E or PGM/PST bank you want to be the link destination, then press [M/E Set].

To link the banks not only for transition execution but also for the other operations

Press [Transition Only], turning it off.

To release the link setting

Use the same operation as in step **2** to select the link number for which you want to release the link setting, then press [Clear].

Making a link setting for key transition

You can make a link setting for key transition by using the Switcher>Link>Key Transition Link menu.

The operations for which you can link two banks are the following independent key transition operations.

- Auto transition
- Turning the key on or off
- Fader lever operation (on the downstream key control block)

Use the following procedure.

1 In the Switcher>Link menu, press [Key Trans Link].

The Key Transition Link menu appears.

The status area displays a link list showing link sources and link destinations, and a key selection list.

- 2** Using any of the following methods, select the link number you want to set.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------------|----------------|
| 1 | Link No | Link number selection | 1 to 32 |

- 3** In the <Key Select> group, select [Master Key] (link source).

- 4** Using any of the following, select the key you want to be the link source, then press [Key Set].

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------------|-----------------------|
| 2 | No | Key number selection | 1 to 16 ^{a)} |

a) The keys and their numbers selectable as link source/link destination are as follows.

M/E-1 Key1 (1), M/E-1 Key2 (2), M/E-1 Key3 (3), M/E-1 Key4 (4), M/E-2 Key1 (5), M/E-2 Key2 (6), M/E-2 Key3 (7), M/E-2 Key4 (8), M/E-3 Key1 (9), M/E-3 Key2 (10), M/E-3 Key3 (11), M/E-3 Key4 (12), DSK1 (13), DSK2 (14), DSK3 (15), and DSK4 (16)

- 5** In the <Key Select> group, select [Linked Key] (link destination).

- 6** In the same way as in step **4**, select the key you want to be the link destination, then press [Key Set].

To release the link setting

Use the same operation as in step **2** to select the link number for which you want to release the link setting, then press [Clear].

Interfacing With External Devices (Device Interface Menu)

To carry out setup relating to connections with external devices, display the Switcher>Device Interface menu.

To display the Device Interface menu

In the Engineering Setup menu, select VF3 ‘Switcher’ and HF7 ‘Device Interface.’

Making 9-pin port device interface settings

The description in this section takes the REMOTE3 port as an example. For other REMOTE ports, carry out the same process as required.

- 1** In the Switcher>Device Interface menu, press [Remote Assign].
The Remote Assign menu appears.
- 2** Select the device interface you want to set for the REMOTE3 port from the <Remote3> group.
Editor A: assign Editor A to the REMOTE3 port.
Editor B: assign Editor B to the REMOTE3 port.
AUX: assign AUX to the REMOTE3 port.
DME1: assign DME1 to the REMOTE3 port.

Note

When REMOTE3 and REMOTE4 are respectively assigned to DME1 and DME2, you can switch the AUX bus from the DME (DME-3000/7000) connected to these ports.

At this time, connect the DME input video signals and key signals as follows.

- DME1 video input: AUX1 output
- DME1 key input: AUX2 output
- DME2 video input: AUX4 output
- DME2 key input: AUX5 output

Note that for a DME external video signal, you can select any of AUX1 to AUX14 on the DME. Connect to the selected AUX bus.


Making switcher processor GPI input settings


Use the following procedure.


- 1** In the Switcher>Device Interface menu, press [GPI Input].
The GPI Input menu appears.
- 2** Using any of the following methods, select the settings.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knobs.


| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | Port | Port selection | 1 to 8 |
| 2 | No | Selection of number for action to be assigned | 1 to 8 |

3 In the <Trigger Type> group, select the trigger type.

 **(Rising Edge):** Apply the trigger on a rising edge of an input pulse.

 **(Falling Edge):** Apply the trigger on a falling edge of an input pulse.

 **(Any Edge):** Apply the trigger on a change in the polarity of the input signal.

 **(Level):** Carry out the specified operation when the input is low or high.

No Operation: Apply no trigger on an input pulse.

4 In the <Target> group, select the action block.

M/E-1, M/E-2, M/E-3, P/P: Set the action for one of the banks.

Common/Setup: Set an action for something other than the above, or a setup action.

5 Using any of the following methods, select the action to be set.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|---|
| 3 | Action | Action selection | 1 and upwards ^{a)} |
| 4 | Reg No | Register number | 1 to 4 ^{b)} 1 to 99 ^{c)} |

a) • **Action list when the trigger type is other than “Level”**

When Target is M/E-1, M/E-2, or M/E-3: Cut, Auto Trans

Key1 Cut, Key1 Auto Trans, Key2 Cut, Key2 Auto Trans, Key3 Cut, Key3 Auto Trans, Key4 Cut, Key4 Auto Trans

SS ? Recall, Key1 SS ? Recall, Key2 SS ? Recall, Key3 SS ? Recall, Key4 SS ? Recall

Effect ? Recall, Effect ? Recall & Run, KF Run, KF Stop, KF Rewind, KF Reverse Run, No Action

When Target is P/P: Cut, Auto Trans

DSK1 Cut, DSK1 Auto Trans, DSK2 Cut, DSK2 Auto Trans, DSK3 Cut, DSK3 Auto Trans, DSK4 Cut, DSK4 Auto Trans

FTB Cut, FTB Auto Trans

SS ? Recall, DSK1 SS ? Recall, DSK2 SS ? Recall, DSK3 SS ? Recall, DSK4 SS ? Recall

Effect ? Recall, Effect ? Recall & Run, KF Run, KF Stop, KF Rewind, KF Reverse Run, No Action

When Target is Common/Setup: FM Src1 Field Freeze, FM Src1 Frame Freeze, FM Src2 Field Freeze, FM Src2 Frame Freeze
FM Src1 Freeze Off, FM Src2 Freeze Off

User1 to 8 SS ? Recall, User1 to 8 EFF ? Recall, User1 to 8 EFF ? Recall & Run, User1 to 8 KF Run, User1 to 8 KF Stop, User1 to 8 KF Rewind, User1 to 8 KF Reverse Run, No Action

• **Action list when the trigger type is “Level”**

When Target is M/E-1, M/E-2, M/E-3, or P/P: Aspect

Bkgd A Side Flags*, Bkgd B Side Flags*,

* Appears on the MVS-8000A only.

No Action

When Target is Common/Setup: Format, Aspect, Level Enable, No Action

Note

“Level Enable” is a function that determines whether GPI inputs are enabled (“Enable”) or disabled (“Disable”) for the “Aspect” and “Format” actions that can be used when the trigger type is Level. When Level Enable is used, if the input is “Disable” then it is not possible to switch “Aspect” or “Format” by GPI input.

If a GPI to switch “Aspect” or “Format” occurs when powering the system off, the action triggered by the GPI may start immediately before the power goes off and the power may go off before the action is completed. This may corrupt the setup settings.

It is therefore recommended to use Level Enable to avoid such a situation.

b) When knob 3 selection is “Key Snapshot”

c) When knob 3 selection is “Snapshot” or “Effect”

6 Press [Action Set] to confirm the action selection.

The selected setting appears in the status area.

Carrying out level settings

To set the low level and high level, first set the trigger type to “Level,” then use the following procedure.

1 In the Switcher>Device Interface menu, select the action to be set, and press [H/L Set].

The H/L Set menu appears.

2 Using any of the following methods, select the settings.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------------------------|----------------|
| 1 | No | Selection of setting for action | 1 and upwards |

- 3** To apply the selection made in step **2** when the input is high, press [H Set].
To apply the selection made in step **2** when the input is low, press [L Set].

This confirms the setting, which appears in the status area.

Notes

- When the action is “Format,” these settings conflict with the current settings, but after making the settings, agreement is restored after a pulse change or power off/on.
- When the Action is “Bkgd A Side Flags” or “Bkgd B Side Flags,” the levels are fixed, as follows.

High level: Off

Low level: On

Making switcher processor GPI output settings

Use the following procedure.

- 1** In the Switcher>Device Interface menu, press [GPI Output].


The GPI Output menu appears.


- 2** Using any of the following methods, select the settings.


- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------|
| 1 | Port | Port selection | 1 to 8 |

- 3** In the <Trigger Type> group, select the trigger polarity.

 **(Rising Edge):** The trigger causes the relay contacts to be open-circuit or drives the output high, and holds this state for the specified pulse width.

 **(Falling Edge):** The trigger causes the relay contacts to be shorted or drives the output low, and holds this state for the specified pulse width.

 **(Any Edge):** Each time the trigger occurs, the relay contacts are alternately closed or opened, or the output is switched between high and low.

Status: Depending on the status, the relay contacts are closed or opened, or the output is switched between high and low.

No Operation: The trigger has no effect on the output.

- 4** Turn the knobs to select the pulse width and timing to be set.



| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---------------|----------------------|
| 3 | Pulse Width | Pulse width | 1 to 60 (fields) |
| 4 | Timing | Output timing | 1 to 3 ^{a)} |

a) 1: Field 1, 2: Field 2, 3: Any

When “ ∞ ” is selected as the trigger polarity, there is no Pulse Width setting. When “Status” is selected, there is no Pulse Width or Timing setting.

5 In the <Source> group, select the action block.

M/E-1 to M/E-3 and P/P: Set an action for the M/E or PGM/PST bank.

Common: Set an action for error status.

6 Using any of the following methods, select the action to be set.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|---|
| 2 | Action | Action selection | 1 and upwards ^{a)} |
| 5 | Reg No | Register number | 1 to 4 ^{b)} 1 to 99 ^{c)} |

a) • Action list when the trigger type is other than “Status”

When Source is M/E-1, M/E-2, or M/E-3: Cut, Auto Trans

Key1 Cut, Key1 Auto Trans, Key2 Cut, Key2 Auto Trans, Key3 Cut, Key3 Auto Trans, Key4 Cut, Key4 Auto Trans

Key1 SS ? Recall, Key2 SS ? Recall, Key3 SS ? Recall, Key4 SS ? Recall

Effect ? Recall, Effect ? Recall & Run, KF Run, KF Stop, KF Rewind, No Action

When Source is P/P: Cut, Auto Trans

DSK1 Cut, DSK1 Auto Trans, DSK2 Cut, DSK2 Auto Trans, DSK3 Cut, DSK3 Auto Trans, DSK4 Cut, DSK4 Auto Trans

FTB Cut, FTB Auto Trans

DSK1 SS ? Recall, DSK2 SS ? Recall, DSK3 SS ? Recall, DSK4 SS ? Recall

Effect ? Recall, Effect ? Recall & Run, KF Run, KF Stop, KF Rewind, No Action

When Source is Common: No Action

• Action list when the trigger type is “Status”

When Source is M/E-1, M/E-2 or M/E-3: Key1 On, Key2 On, Key3 On, Key4 On
No Action

When Source is P/P: DSK1 On, DSK2 On, DSK3 On, DSK4 On
No Action

When Source is Common: Error Make, Error Break, No Action

b) When knob 2 selection is “Key Snapshot”

c) When knob 2 selection is “Snapshot” or “Effect”

7 Press [Action Set] to confirm the action selection.

The selected setting appears in the status area.

Test firing the trigger

To test fire the trigger, press [Test Fire].

This outputs a trigger from the selected output port. This is not output when the trigger type is “Status.”

Enabling or disabling AUX bus control

Use the following procedure.

- 1** In the Switcher>Device Interface menu, press [Aux Control].
The Aux Control menu appears.
- 2** Select the 9-pin port for the setting, from the <Control> group.
Remote1: Make the settings for the REMOTE1 port.
Remote2: Make the settings for the REMOTE2 port.
Remote3: Make the settings for the REMOTE3 port.
Remote4: Make the settings for the REMOTE4 port.
- 3** Using any of the following methods, select the AUX bus.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------|-----------------------|
| 1 | No | AUX bus selection | 0 to 48 ^{a)} |

a) 0: EDIT PVW
1 to 48: AUX1 to AUX48

- 4** Select whether to enable or disable AUX bus control from the <Control Mode> group.
Enable: enable control of the port selected in step **2**.
Disable: disable control of the port selected in step **2**.
Manual: make whether control of the port selected in step **2** is possible or not depend on the setting in the Misc menu.
- 5** Repeat steps **2** to **4** as required to make the settings for other ports.

Setting the interface between the DME and the switcher

To set the interface between the DME and the switcher when the DME is an MVE-8000A or MVE-9000, proceed as follows.

- 1 In the Engineering Setup menu, select VF3 'Switcher' and HF7 'Device Interface.'

The Device Interface menu appears.

- 2 Press [DME Type Setting].

The DME Type Setting menu appears.

- 3 In the <DME1 Type> group to set DME1 or in the <DME2 Type> group to set DME2, press either of the following, turning it on.

Dedicated: The MVE-8000A/MVE-9000 has an MVS-8000-series dedicated interface.

SDI: The MVE-8000A/MVE-9000 has an SDI interface.

Setting the AUX bus output and reentry input

Select the signal input to the DME (AUX bus output) and the signal returned as the switcher primary input (reentry input) as follows.

Notes

- When using the MVE-8000, it is not necessary to make this setting.
- Before the following operations, carry out the procedure described in the previous item "*Setting the interface between the DME and the switcher.*"

- 1 In the Switcher>Device Interface menu, press [DME Type Setting].

The DME Type Setting menu appears.

- 2 Press [DME SDI Interface].

The DME SDI Interface menu appears.

- 3 Using any of the following methods, select the DME channel to which operations apply.

- Press directly on the list on the left of the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-----------------------|----------------|
| 1 | DME Ch No | DME channel selection | 1 to 24 |

Notes

- When using the MVE-8000A, it is not possible to select any of DME 1 Ext In to DME 8 Ext In.
- When using the MVE-9000 through the DME dedicated interface, it is not possible to select DME 1 to DME 8 (video/key).

4 In the <Select> group, select the AUX bus or reentry to be assigned to the DME channel.

Aux Bus: Set AUX bus.

Re-Entry: Set reentry.

5 Depending on the selection in step **4**, use any of the following methods to make the setting.

- Press directly on the list on the right of the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

• **When Aux Bus is selected**

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------|
| 2 | Src No | AUX bus number | 0 to 48 |

• **When Re-Entry is selected**

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------|
| 2 | Src No | Reentry number | 0 to 80 |

6 Press [Set].

In the list on the right of the status area, the selected content is reflected in the specified DME channel.

Repeat steps **3** to **6** as required.

Setup Relating to DME

Settings Relating to Signal Inputs (Input Menu)

To make settings relating to DME input signals, display the DME>Input menu.

To display the Input menu

In the Engineering Setup menu, select VF4 'DME' and HF1 'Input.'
The status area shows the initial crop information and the DME system phase.
In the following description, the settings for DME1 are given by way of example, but the settings for DME2 are carried out in a similar way.

Setting the initial crop

Use the following procedure.

- 1 In the DME1 <Aspect> group, select the screen aspect ratio (16:9 or 4:3).
- 2 In the DME1 <Crop> group, press [Initial Crop] and adjust the following parameters.

If you selected 4:3 in step 1

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------------|----------------|
| 1 | Top | Position of top side | -3.00 to +3.00 |
| 2 | Left | Position of left side | -4.00 to +4.00 |
| 3 | Right | Position of right side | -4.00 to +4.00 |
| 4 | Bottom | Position of bottom side | -3.00 to +3.00 |

If you selected 16:9 in step 1

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------------|------------------|
| 1 | Top | Position of top side | -9.00 to +9.00 |
| 2 | Left | Position of left side | -16.00 to +16.00 |
| 3 | Right | Position of right side | -16.00 to +16.00 |
| 4 | Bottom | Position of bottom side | -9.00 to +9.00 |

To return the parameter values to their default values

Press [Unity] in the <Crop> group.

Setting an illegal color limit for matte signals

To enable the illegal color limiter for the signals generated by the DME internal matte generator, press [Matte Illeg Col Limit] for DME1 in the DME>Input menu, turning it on.

Making DME system phase adjustment

To adjust the DME reference phase, use the following procedure.

- 1** Press [System Phase].
- 2** Set the following parameters.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|------------------------------|------------------|
| 1 | DME1 Phase | DME1 system phase adjustment | -32.00 to +96.00 |
| 2 | DME2 Phase | DME2 system phase adjustment | -32.00 to +96.00 |

Setting the TBC window center position

When the MVE-8000A/MVE-9000 is connected through SDI interface, the DME>Input>TBC Center menu allows you to set the TBC window center position.

Use the following procedure.

- 1** In the DME>Input menu, press [TBC Center].

The TBC Center menu appears.

The status area shows the TBC center position values for DME1, DME 2, and external input signals.

Note

The TBC center position values for external input signals are shown only when an SDI-interfaced MVE-9000 is used.

- 2** Using any of the following methods, select the input number for which you want to set the TBC center position.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------|----------------|
| 1 | No | Input number selection | 1 to 8 |

- 3** In the <Video/Key> group (when an SDI-interfaced MVE-8000A/9000 is used) or the <External Video> group (when an SDI-interfaced MVE-9000 is used), press the desired button, and set the TBC center position to 0H, 0.5H, or 1H.

Settings Relating to Signal Outputs (Output Menu)

To make settings relating to DME output signals, display the DME>Output menu.

To display the Output menu

In the Engineering Setup menu, select VF4 'DME' and HF3 'Output.'

Adjusting the monitor output

When the MVE-8000A/MVE-9000 is connected through SDI interface, you can adjust both DME1 and DME2 output video clip levels.

Use the following procedure. (DME 1 is taken by way of example.)

- 1** In the <DME1(Ch1-Ch4)> group, press [Clip Adjust], turning it on.
- 2** Set the following parameters.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|------------------------|-----------------|
| 1 | White Clip | White clip adjustment | 90.00 to 109.02 |
| 2 | Dark Clip | Dark clip adjustment | -6.85 to +10.00 |
| 3 | Chroma Clip | Chroma clip adjustment | 90.00 to 113.17 |

To return the setting to the default value

Press [Default].

Setting the monitor output

To set the signals output from the four monitor output connectors, use the following procedure.

Note

This setting is valid when an SDI-interfaced MVE-8000A or an MVE-9000 is used.

- 1** Press [Monitor Output].

The Monitor Output menu appears.

- 2 In the <Select> group, select the DME to which the setting applies.
DME1: Select DME1.
DME2: Select DME2.
- 3 In the list on the left of the status area, press directly on the monitor output for which you want to make setting.
- 4 In the list on the right of the status area, press directly on the signal you want to output.
- 5 Press [Set].
 The selection is reflected in the monitor output.

Interfacing With External Devices (Device Interface Menu)

To carry out setup relating to DME connections with external devices, display the DME>Device Interface menu.

To display the Device Interface menu

In the Engineering Setup menu, select VF4 'DME' and HF4 'Device Interface.'

In the following description, the settings for DME1 are given by way of example, but the settings for DME2 are carried out in a similar way.

Setting the editor protocol

In the <DME1 Editor Protocol> group of the DME>Device Interface menu, press the following buttons to make the setting.

DME: Control by DME protocol through the editor port.

VTR: Control by VTR protocol through the editor port.

Making editor port settings

In the <DME1 Editor Port Setting> group of the DME>Device Interface menu, press either of the following to select the way in which the editor ports are used.

Common: Control all of channels 1 to 4 through Editor port 1.

Independ: Control channels 1 to 4 individually through Editor ports 1 to 4.

Note

On the MVE-8000, the setting is fixed to Common.

Making DME GPI input settings

Use the following procedure.

- 1 In the DME>Device Interface menu, press [DME1 GPI Input].


The DME1 GPI Input menu appears.


- 2 Using any of the following methods, select the settings.


- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.


| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | Port | Input port selection | 1 to 8 |
| 2 | No | Selection of number for action to be assigned | 1 to 8 |

- 3 In the <Trigger Type> group, select the trigger polarity.

 **(Rising Edge):** Apply the trigger on a rising edge of an input pulse.

 **(Falling Edge):** Apply the trigger on a falling edge of an input pulse.

 **(Any Edge):** Apply the trigger on a change in the polarity of the input signal.

 **(Level):** Carry out the specified operation when the input is low or high.

No Operation: Apply no trigger on an input pulse.

- 4 In the <Target> group, select what this applies to (channels 1 to 4, or Proc).

- 5 Using any of the following methods, select the action to be set.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|---|
| 3 | Action | Action selection | 1 and upwards ^{a)} |
| 4 | Reg No | Register number | 1 to 99 ^{b)} 1 to 399 ^{c)} |

a) • Action list when the trigger type is other than “Level”

When Target is Ch1, Ch2, Ch3, or Ch4: Freeze, SS ? Recall

Effect ? Recall, Effect ? Recall & Run, KF Run, KF Stop, KF Rewind, KF Reverse Run, No Action

When Target is Proc: No Action

• **Action list when the trigger type is “Level”**

When Target is Ch1, Ch2, Ch3, or Ch4: Aspect, No Action

When Target is Proc: Format (frame/field rate, number of lines)

Aspect, Level Enable, No Action

Note

“Level Enable” is a function that determines whether GPI inputs are enabled (“Enable”) or disabled (“Disable”) for the “Aspect” and “Format” actions that can be used when the trigger type is Level. When Level Enable is used, if the input is “Disable” then it is not possible to switch “Aspect” or “Format” by GPI input.

If a GPI to switch “Aspect” or “Format” occurs when powering the system off, the action triggered by the GPI may start immediately before the power goes off and the power may go off before the action is completed. This may corrupt the setup settings.

It is therefore recommended to use Level Enable to avoid such a situation.

b) When knob 3 selection is “Snapshot”

c) When knob 3 selection is “Effect”

6 Press [Action Set] to confirm the action selection.

The selected setting appears in the status area.

Carrying out level settings

To set the low level and high level, first set the trigger type to “Level,” then use the following procedure.

1 In the DME>Device Interface menu, select the action to be set, and press [H/L Set].

The H/L Set menu appears.

2 Using any of the following methods, select the settings.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | No | Signal format/screen aspect ratio selection | 1 and upwards |

3 To apply the selection made in step 2 when the input is high, press [H Set]. To apply the selection made in step 2 when the input is low, press [L Set].

This confirms the setting, which appears in the status area.

Making DME GPI output settings

Use the following procedure.

- 1 In the DME>Device Interface menu, press [DME1 GPI Output].

The DME1 GPI Output menu appears.

The output port selection is fixed at 1.

- 2 In the <Trigger Type> group, select the trigger polarity.

Status: Depending on the status, the relay contacts are closed or opened, or the output is switched between high and low.

No Operation: The trigger has no effect on the relay state or output level.

- 3 Using any of the following methods, select the action you want to set.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|----------------------|
| 2 | Action | Action selection | 1 to 3 ^{a)} |

a) Error Make, Error Break, No Action

- 4 Press [Action Set] to confirm the action selection.

The selected setting appears in the status area.

Setup Relating to DCU

Note

For setup relating to DCU, it is necessary to make the same settings on multiple control panels (maximum three units) that are sharing the DCU. After carrying out the DCU setup on one control panel, make the same settings on the other control panels.

Settings Relating to Parallel Inputs (Input Config Menu)

The DCU parallel input ports are assigned with the following priority sequence.

1. When external boxes are set in the Router/Tally>Router>External Box Assign menu, the parallel inputs are assigned to the external box inputs in order.
2. When tally settings are carried out in the Router/Tally>Tally Enable menu, tally inputs are assigned automatically.

In this menu, you set only the input ports which are unused after making the above assignments.

To assign GPI inputs to DCU parallel input ports, display the DCU>Input Config menu.

To display the Input Config menu

In the Engineering Setup menu, select VF5 'DCU' and HF1 'Input Config.' The status area shows input port information.

Assigning a GPI input port

Use the following procedure.

- 1** In the DCU>Input Config menu, select what the setting applies to (DCU1 or DCU2) from the <DCU Select> group.
- 2** In the <Parallel Input Assign> group, press [GPI Input].
- 3** Using any of the following methods, assign the number of the GPI input to the input port.
 - Press directly on the list appearing in the status area.

- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|----------------|------------|------------------------|
| 1 | Parallel Input | Input port | 1 to 102 ^{a)} |
| 3 | GPI Input | GPI input | 1 to 50 |

a) When the MKS-2700 is connected, select a value in the range 1 to 34.

4 To confirm the assignment in step 3, press [GPI Input Set].

This assigns the GPI input, and this is reflected in the status area.

Releasing the assignment of a GPI input port

Use the following procedure.

- 1 In the DCU>Input Config menu, select what the setting applies to (DCU1 or DCU2) from the <DCU Select> group.
- 2 In the <Parallel Input Assign> group, if [GPI Input] is on, press it to turn it off.
- 3 Turn the knobs to adjust the following parameters.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------|----------------|
| 1 | From No | First port number | 1 to To No |
| 2 | To No | Last port number | From No to 102 |

4 In the <Parallel Input Assign> group, press [No Assign].

GPI Input Setting (GPI Input Assign Menu)

To set the trigger type and so on for each GPI input, display the DCU>GPI Input Assign menu.

To display the GPI Input Assign menu

In Engineering Setup, select VF5 'DCU' and HF2 'GPI Input Assign.'
The GPI input port setting status appears in the status area.

Making DCU GPI input settings


Use the following procedure.


- 1** In the DCU>GPI Input Assign menu, using any of the following methods select what the setting applies to.


- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.


| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------|----------------|
| 1 | No | GPI input | 1 to 50 |

- 2** In the <Trigger Type> group, select the trigger polarity.

 **(Rising Edge):** Apply the trigger on a rising edge of an input pulse.

 **(Falling Edge):** Apply the trigger on a falling edge of an input pulse.

 **(Any Edge):** Apply the trigger on a change in the polarity of the input signal.

 **(Level):** Carry out the specified operation when the input is low or high.

No Operation: Apply no trigger on an input pulse.

- 3** In the <Target Device> group, select the control panel to handle the GPI input.

SCU1: ID1 control panel (PNL1)

SCU2: ID2 control panel (PNL2)

SCU3: ID3 control panel (PNL3)

The action set in the following step **4** is executed for the switcher and DME controlled by the selected control panel.

- 4** Using any of the following methods, select the action you want to set.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|------------|-------------------|---|
| 2 | Action | Action selection | 1 and upwards ^{a)} |
| 4 | Aux Bus No | Aux bus selection | 1 to 48 ^{e)} |
| 5 | Reg No | Register number | 1 to 4 ^{b)} 1 to 99 ^{c)} 1 to 399 ^{d)} |



| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------------|-----------------------------|
| 5 | Src No | Source signal selection | 1 and upwards ^{e)} |

a) • **Action list when the trigger type is other than “Level”**

M/E-1 Cut, M/E-2 Cut, M/E-3 Cut, P/P Cut,
M/E-1 Auto Trans, M/E-2 Auto Trans, M/E-3 Auto Trans,
P/P Auto Trans
M/E-1 Key1 Auto Trans, M/E-1 Key1 Cut
M/E-1 Key2 Auto Trans, M/E-1 Key2 Cut
M/E-1 Key3 Auto Trans, M/E-1 Key3 Cut
M/E-1 Key4 Auto Trans, M/E-1 Key4 Cut
M/E-2 Key1 Auto Trans, M/E-2 Key1 Cut
M/E-2 Key2 Auto Trans, M/E-2 Key2 Cut
M/E-2 Key3 Auto Trans, M/E-2 Key3 Cut
M/E-2 Key4 Auto Trans, M/E-2 Key4 Cut
M/E-3 Key1 Auto Trans, M/E-3 Key1 Cut
M/E-3 Key2 Auto Trans, M/E-3 Key2 Cut
M/E-3 Key3 Auto Trans, M/E-3 Key3 Cut
M/E-3 Key4 Auto Trans, M/E-3 Key4 Cut
P/P DSK1 Auto Trans, P/P DSK1 Cut
P/P DSK2 Auto Trans, P/P DSK2 Cut
P/P DSK3 Auto Trans, P/P DSK3 Cut
P/P DSK4 Auto Trans, P/P DSK4 Cut
FTB Auto Trans, FTB Cut
Master SS ? Recall,
SS ? Recall,
M/E-1 Key1 SS ? Recall, M/E-1 Key2 SS ? Recall
M/E-1 Key3 SS ? Recall, M/E-1 Key4 SS ? Recall
M/E-2 Key1 SS ? Recall, M/E-2 Key2 SS ? Recall
M/E-2 Key3 SS ? Recall, M/E-2 Key4 SS ? Recall
M/E-3 Key1 SS ? Recall, M/E-3 Key2 SS ? Recall
M/E-3 Key3 SS ? Recall, M/E-3 Key4 SS ? Recall
P/P DSK1 SS ? Recall, P/P DSK2 SS ? Recall
P/P-1 DSK3 SS ? Recall, P/P-1 DSK4 SS ? Recall
FM Src1 Field Freeze, FM Src1 Frame Freeze, FM Src1 Freeze Off
FM Src2 Field Freeze, FM Src2 Frame Freeze, FM Src2 Freeze Off
Effect ? Recall, Effect ? Recall & Run, KF Run, KF Stop,
Master Effect ? Recall
KF Rewind, Shotbox ? Recall, Macro Take, No Action

• **Action list when the trigger type is only “Rising Edge” or “Falling Edge”**

Aux? O’ride Src??

• **Action list when the trigger type is “Level”**

Simul, Custom, Format (frame/field rate, number of lines)
(System Format, SWR Format, DME Ch1-Ch4 Format, DME Ch5-Ch8 Format)
Aspect (System Aspect, SWR Aspect, M/E-1 Aspect, M/E-2 Aspect,
M/E-3 Aspect, P/P Aspect, DME Ch1-Ch4 Aspect
DME Ch1 Aspect, DME Ch2 Aspect, DME Ch3 Aspect,
DME Ch4 Aspect, DME Ch5 Aspect
DME Ch6 Aspect, DME Ch7 Aspect, DME Ch8 Aspect)
Level Enable, No Action

Notes

- “Level Enable” is a function that determines whether GPI inputs are enabled (“Enable”) or disabled (“Disable”) for the Aspect and Format actions that can be used when the trigger type is Level. When Level Enable is used, if the input is “Disable” then it is not possible to switch Aspect or Format by GPI input. If a GPI to switch Aspect or Format occurs when powering the system off, the

action triggered by the GPI may start immediately before the power goes off and the power may go off before the action is completed. This may corrupt the setup settings. It is therefore recommended to use Level Enable to avoid such a situation.

- As for “Aux ? O’ride Src ??,” when “Rising Edge” is selected, on a rising edge the set AUX bus primary input is used. On a falling edge, the original state of the cross-point is restored. If the GPI trigger is applied repeatedly at short intervals (0.5 second or less), the cross-point switching may not be carried out correctly. In this case, apply the GPI trigger again.
- b) When knob 2 selection is “Key Snapshot”
- c) When knob 2 selection is “Snapshot”
- d) When knob 2 selection is “Effect”
- e) When knob 2 selection is “Aux ? O’ride Src ??”

5 To confirm the setting in step 4, press [Action Set].

This confirms the setting, which appears in the status area.

Carrying out level settings

To set the low level and high level, first set the trigger type to “Level,” then use the following procedure.

1 In the DCU>GPI Input Assign menu, select the action to be set, and press [H/L Set].

The H/L Set menu appears.

2 Using any of the following methods, select the settings.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | No | Signal format/screen aspect ratio selection | 1 and upwards |

3 To apply the selection made in step 2 when the input is the GPI high level, press [H Set]. To apply the selection made in step 2 when the input is low, press [L Set].

This confirms the setting, which appears in the status area.

Parallel Output Settings (Output Config Menu)

For the DCU parallel output ports, after carrying out tally settings in the Router/Tally>Tally Enable menu, you can assign GPI outputs to output ports that are still unused.

To assign DCU outputs to DCU parallel output ports, display the DCU>Output Config menu.

To display the Output Config menu

In Engineering Setup, select VF5 ‘DCU’ and HF3 ‘Output Config.’
The status area shows output port information.

Assigning a GPI output port

Use the following procedure.

- 1** In the DCU>Output Config menu, select what the setting applies to (DCU1 or DCU2) from the <DCU Select> group.
- 2** In the <Parallel Output Assign> group, press [GPI Output].
- 3** Using any of the following methods, select the output port and GPI output number.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|----------------------|------------------|-----------------------|
| 1 | Parallel Output Slot | Output port slot | 2 to 6 ^{a)} |
| 2 | Parallel Output Port | Output port | 1 to 54 ^{b)} |
| 5 | GPI Output | GPI output | 1 to 50 |

a) When the MKS-2700 is connected, select 2.

b) When the MKS-2700 is connected, select a value in the range 1 to 36.

- 4** To confirm the selected setting, press [GPI Output Set].

This confirms the selection, which is reflected in the status area.

Releasing the assignment of a GPI output port

Use the following procedure.

- 1** In the DCU>Output Config menu, select what the setting applies to (DCU1 or DCU2) from the <DCU Select> group.
- 2** In the <Parallel Output Assign> group, if [GPI Output] is on, press it to turn it off.
- 3** Turn the knobs to select the slot and port to which the setting applies.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------|----------------|
| 1 | From Slot | First port slot | 2 to 6 |
| 2 | From Port | First port number | 1 to 54 |
| 3 | To Slot | Last port slot | 2 to 6 |
| 4 | To Port | Last port number | 1 to 54 |

- 4** In the <Parallel Output Assign> group, press [No Assign].

GPI Output Setting (GPI Output Assign Menu)

To set the trigger type and so on for each GPI output, display the DCU>GPI Output Assign menu.

To display the GPI Output Assign menu




In Engineering Setup, select VF5 'DCU' and HF4 'GPI Output Assign.'
The GPI output port setting status appears in the status area.

Making DCU GPI output settings

Use the following procedure.

- 1** In the DCU>GPI Output Assign menu, using any of the following methods select what the setting applies to.
- Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------|----------------|
| 1 | No | GPI output | 1 to 50 |

- 2** In the <Trigger Type> group, select the trigger polarity.
-  **(Rising Edge):** The trigger causes the relay contacts to be open-circuit or drives the output high, and holds this state for the specified pulse width.
 -  **(Falling Edge):** The trigger causes the relay contacts to be shorted or drives the output low, and holds this state for the specified pulse width.
 -  **(Any Edge):** Each time the trigger occurs, the relay contacts are alternately closed or opened, or the output is switched between high and low.

Status: Depending on the status, the relay contacts are closed or opened, or the output is switched between high and low.

No Operation: The trigger has no effect on the relay state or output level.

3 Turning the knobs, select the pulse width and timing to be set.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---------------|----------------------|
| 3 | Pulse Width | Pulse width | 1 to 60 (fields) |
| 4 | Timing | Output timing | 1 to 3 ^{a)} |

a) 1: Field 1, 2: Field 2, 3: Any

When “ ∞ ” is selected as the trigger polarity, there is no Pulse Width setting. When “Status” is selected, there is no Pulse Width or Timing setting.

4 In the <Source Device> group, select the control panel or DCU to handle the GPI output.

SCU1: ID1 control panel (PNL1)

SCU2: ID2 control panel (PNL2)

SCU3: ID3 control panel (PNL3)

DCU1: ID1 DCU

DCU2: ID2 DCU

When the action set in the following step **5** is carried out on the control panel selected here, this causes a GPI output. It is also possible to output error information. When the DCU is selected, you can output error information by means of the action set in step **5**.

5 Using any of the following methods, select the action you want to set.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------------|-----------------------------|
| 2 | Action | Action selection | 1 and upwards ^{a)} |
| 5 | Reg No | Snapshot register number | 1 to 4 ^{b)} |
| 5 | GPI No | GPI number selection | 1 to 32 ^{c)} |

a) • **Action list when the trigger type is other than “Status”**

When Source Device is SCU: M/E1 Key1 SS ? Recall, M/E1 Key2 SS ? Recall, M/E1 Key3 SS ? Recall

M/E1 Key4 SS ? Recall, M/E2 Key1 SS ? Recall, M/E2 Key2 SS ? Recall, M/E2 Key3 SS ? Recall, M/E2 Key4 SS ? Recall

M/E3 Key1 SS ? Recall, M/E3 Key2 SS ? Recall, M/E3 Key3 SS ? Recall, M/E3

Key4 SS ? Recall

P/P DSK1 SS ? Recall, P/P DSK2 SS ? Recall, P/P DSK3 SS ? Recall, P/P DSK4 SS ? Recall

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No Action

When Source Device is DCU: No Action

• **Action list when the trigger type is “Status”**

When Source Device is SCU: M/E1 Key1 SS ? Recall, M/E1 Key2 SS ? Recall, M/E1 Key3 SS ? Recall, M/E1 Key4 SS ? Recall

M/E2 Key1 SS ? Recall, M/E2 Key2 SS ? Recall, M/E2 Key3 SS ? Recall, M/E2 Key4 SS ? Recall

M/E3 Key1 SS ? Recall, M/E3 Key2 SS ? Recall, M/E3 Key3 SS ? Recall, M/E3 Key4 SS ? Recall

P/P DSK1 SS ? Recall, P/P DSK2 SS ? Recall, P/P DSK3 SS ? Recall, P/P DSK4 SS ? Recall

M/E1 Key1 On, M/E1 Key2 On, M/E1 Key3 On, M/E1 Key4 On

M/E2 Key1 On, M/E2 Key2 On, M/E2 Key3 On, M/E2 Key4 On

M/E3 Key1 On, M/E3 Key2 On, M/E3 Key3 On, M/E3 Key4 On

P/P DSK1 On, P/P DSK2 On, P/P DSK3 On, P/P DSK4 On

Error Make, Error Break, No Action

When Source Device is DCU: Error Make, Error Break, No Action

b) When knob 2 selection is “Key Snapshot”

c) When knob 2 selection is “GPI”

6 To confirm the selection, press [Action Set].

This confirms the selection, which appears in the status area.

Test firing the trigger

To test fire the trigger, in the DCU>GPI Output menu press [Test Fire].

This outputs a trigger from the selected output port. This is not output when the trigger type is “Status.”

Serial Port Settings (Serial Port Assign Menu)

To set the protocol to match a device connected to a 9-pin serial port, display the DCU>Serial Port Assign menu.

To display the Serial Port Assign menu

In Engineering Setup, select VF5 ‘DCU’ and HF5 ‘Serial Port Assign.’

The serial port setting status appears in the status area.

Making serial port settings

Use the following procedure.

- 1 In the DCU>Serial Port Assign menu, select the target for the setting (DCU1 or DCU2) from the <DCU Select> group.



2 Using any of the following methods, select the serial port.

- Press directly on the list on the left of the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------|-----------------------------|
| 1 | Port No | Serial port | 1 and upwards ^{a)} |

a) The setting value range depends on the DCU port setting. (When the MKS-2700 is connected, select 2 for the slot and a value in the range 1 to 6 for the port.)

3 Using any of the following methods, select the protocol for the connected device.

- Press directly on the list on the right of the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|--------------------|----------------------|
| 2 | Device Type | Protocol selection | 1 to 7 ^{a)} |

- a) 1. No Assign: nothing is connected to the serial port.
2. P-Bus: P-Bus device.
3. VTR: VTR
4. DDR SD9P: disk recorder (Sony disk 9-pin protocol)
5. DDR VDCP: disk recorder (video disk communication protocol)
6. Extended VTR (Abekas A53 protocol)
7. Mixer ESAM-II

Note

Mixer ESAM-II cannot be operated from this system. It can only be operated from an editing keyboard.

4 Press [Device Type Set].

The selected protocol is reflected on the left of the status area.

5 To enter the name of the serial port, press [Set] in the <Name> group.

A keyboard window appears. You can enter a name of not more than 16 characters.

If no name is set for the serial port, it is displayed as “DCUd_PORTS-p.”

d: 1 or 2 (DCU No.)

s: 2 to 6 (Slot No.)

p: 1 to 6 (Port No.)

6 Press [Enter].

To return the set name to the default name

Press [Clear] in the <Name> group.

7 From the <SCU Select> group, select the control panel (SCU1, SCU2 or SCU3) assigned to operations on the external device connected to the serial port.

To delete the serial port assignment

Use the following procedure.

1 In the DCU>Serial Port Assign menu, select the target for the setting (DCU1 or DCU2) from the <DCU Select> group.

2 Using any of the following methods, specify the serial port.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------|-----------------------------|
| 1 | Port No | Serial port | 1 and upwards ^{a)} |

a) The range of setting values depends on the DCU port setting. (When the MKS-2700 is connected, select 2 for the slot and a value in the range 1 to 6 for the port.)

3 Press [Clear].

Making detailed settings on the external device connected to the serial port

After setting the external device for each serial port, it is necessary to make further detailed settings for operation of the external device.

To make detailed settings for a P-Bus device

Use the following procedure.

1 In the DCU>Serial Port Assign menu, select the setting target (DCU1 or DCU2) from the <DCU Select> group.

2 Using any of the following methods, select the serial port connected to the P-Bus device for which you want to make the settings.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.



| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------|-----------------------------|
| 1 | Port No | Serial port number | 1 and upwards ^{a)} |

a) The range of setting values depends on the DCU port setting. (When the MKS-2700 is connected, select 2 for the slot and a value in the range 1 to 6 for the port.)

3 Press [Port Setting].

The DCU>Serial Port Assign>P-Bus Setting menu appears.

At the top of the status area, the relevant serial port, slot number, protocol, serial port name, and SCU number appear. In the lower part of the status area, the device name and response speed settings appear.

4 Using any of the following methods, select the ID for which you want to make a device name setting.

- Press directly on the device name list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------|----------------|
| 1 | ID | ID selection | 0 to 23 |

5 In the <Name> group, press [Set] to display a numeric keypad window.

6 Input the desired name, and press [Enter].

The input device name appears in the device name list.

To return the device name for the selected ID to the default name

In the <Name> group, press [Clear].

7 Using any of the following methods, specify the command to which the response speed setting applies.

- Press directly on the delay list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------------|----------------|
| 2 | No | Command number selection | 1 to 18 |

8 Turn the knob to set the response speed (in field units) of the device.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------|----------------|
| 3 | Delay | Response speed setting | 0 to 60 |

9 Press [Delay Set].

This confirms the setting.

10 Repeat steps 4 to 9 as required to make the settings for other commands.

To make detailed settings for a VTR

Use the following procedure.

1 In the <DCU Select> group of the DCU>Serial Port Assign menu, select the target for the setting (DCU1 or DCU2).

2 Using any of the following methods, select the serial port connected to the VTR for which you want to make the settings.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------|-----------------------------|
| 1 | Port No | Serial port | 1 and upwards ^{a)} |

a) The range of setting values depends on the DCU port setting. (When the MKS-2700 is connected, select 2 for the slot and a value in the range 1 to 6 for the port.)

3 Press [Port Setting].

The DCU>Serial Port Assign>VTR Setting menu appears.

At the top of the status area, the relevant serial port, slot number, protocol, serial port name, SCU number, and timecode source appear. In the lower part of the status area, the VTR constants appear.

4 In the <TC Source> group, select the timecode source (reference signal for determining the tape position) from the following.

LTC (Longitudinal Time Code): Use LTC. When interpolation data is returned from a VTR, use that interpolation data.

LTC: VITC (Vertical Interval Time Code): Normally use LTC, but when the tape is moving at speeds at which LTC cannot be read, use VITC.

When interpolation data is returned from a VTR, use that interpolation data.

CTL (Control): CTL pulses or timer counter pulses are used. Use this only for a tape on which no timecode is recorded.

The displayed tape position is based on the reference signal specified here.

5 Using any of the following methods, specify the VTR constants.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------|
| 1 | Item | Item selection | 1 to 16 |

6 Press [Set].

A numeric keypad window for hexadecimal input appears.

7 Set the VTR constants using values in the range 00 to FF.

| Block | Byte | Setting item |
|---------|------|--------------------------------|
| BLOCK 1 | 1 | HI-BYTE (DEVICE TYPE) |
| | 2 | LO-BYTE (DEVICE TYPE) |
| | 3 | HI-BYTE (FRAME) (PREROLL TIME) |
| | 4 | LO-BYTE (FRAME) (PREROLL TIME) |
| | 5 | EDIT DELAY (FRAME) |
| | 6 | EE DELAY (FRAME) |
| | 7 | OVER RUN (FRAME) |
| | 8 | TRAJECTORY |
| BLOCK 2 | 1 | TC READ DELAY (FRAME) |
| | 2 | START DELAY (FRAME) |
| | 3 | AFTER SYNC DELAY- |
| | 4 | AFTER SYNC DELAY+ |
| | 5 | MODE1 |
| | 6 | MODE2 |
| | 7 | MAX PRRL SPEED |
| | 8 | QUICK PVW PRRL TIME (FRAME) |

8 Press [Enter].

This confirms the settings.

9 Repeat steps 5 to 8 as required to set the constants for other VTRs.

To make detailed settings for a disk recorder (Sony disk 9-pin protocol)

Use the following procedure.

1 In the <DCU Select> group of the DCU>Serial Port Assign menu, select the target for the setting (DCU1 or DCU2).

- 2** Using any of the following methods, select the serial port connected to the disk recorder for which you want to make the settings.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------|-----------------------------|
| 1 | Port No | Serial port | 1 and upwards ^{a)} |

a) The range of setting values depends on the DCU port setting. (When the MKS-2700 is connected, select 2 for the slot and a value in the range 1 to 6 for the port.)

- 3** Press [Port Setting].

The DCU>Serial Port Assign>DDR SD9P Setting menu appears.

At the top of the status area, the relevant serial port, slot number, protocol, serial port name, SCU number, and disk recorder type appear. In the lower part of the status area, the response speed settings appear.

- 4** Using any of the following methods, specify the item to which the response speed setting applies.

- Press directly on the list in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------------|
| 1 | Item No | Item selection | 1 to 4 ^{a)} |

- a) 1. Maximum Open Delay: maximum time required to open a file
 2. Maximum Cueup Delay: maximum time required to cue up a file
 3. Play After Cueup Delay: delay time from the cued-up state to begin playback
 4. Play After Open Next Delay: delay time from the Open Next state to begin playback

- 5** Turn the knob to set the disk recorder response speed.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------|----------------|
| 2 | Setting | Response speed setting | 0 to 255 |

- 6** Press [Set].

This confirms the setting.

- 7** Repeat steps **4** to **6** as required to make the settings for other items.

To make detailed settings for a disk recorder (video disk communications protocol)

Use the following procedure.

- 1 In the <DCU Select> group of the DCU>Serial Port Assign menu, select the target for the setting (DCU1 or DCU2).
- 2 Using any of the following methods, select the serial port connected to the disk recorder for which you want to make settings.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------|-----------------------------|
| 1 | Port No | Serial port | 1 and upwards ^{a)} |

a) The range of setting values depends on the DCU port setting. (When the MKS-2700 is connected, select 2 for the slot and a value in the range 1 to 6 for the port.)

- 3 Press [Port Setting].

The DCU>Serial Port Assign>DDR VDCP Setting menu appears.
 At the top of the status area, the relevant serial port, slot number, protocol, serial port name, SCU number, and disk recorder type appear.
 In the lower part of the status area appear the video port number and response speed settings.

- 4 In the <DDR Type> group, select the type of disk recorder.

Player: Functioning as a player.

Recorder: Functioning as a recorder.

- 5 Using any of the following methods, specify the item to which the video port number or response speed setting applies.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------------|
| 1 | Item No | Item selection | 1 to 5 ^{a)} |

- a) 1. Video Port: Number of the video port associated with the serial port to which the setting applies
 For a player, the output port setting
 For a recorder, the input port setting
 2. Maximum Open Delay: maximum time required to open a file
 3. Maximum Cueup Delay: maximum time required to cue up a file
 4. Play After Cueup Delay: delay time from the cued-up state to begin playback
 5. Stop Delay: delay time from issuing the stop command until actually stopping

- 6 Turn the knob to set the disk recorder video port number or response speed.

When setting the video port number

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------|------------------------|
| 2 | Setting | Video port number | 0 to 127 ^{a)} |

a) 0: No assignment

When setting the response speed

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------|
| 2 | Setting | Response speed | 0 to 255 |

7 Press [Set].

This confirms the setting.

8 If required, repeat steps **4** to **7**, to set other items.

To make detailed settings for an Extended VTR

Use the following procedure.

- 1** In the DCU>Serial Port Assign menu, select the setting target (DCU1 or DCU2) from the <DCU Select> group.
- 2** Using any of the following methods, select the serial port connected to the Extended VTR for which you want to make the settings.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--------------------|-----------------------------|
| 1 | Port No | Serial port number | 1 and upwards ^{a)} |

a) The range of setting values depends on the DCU port setting. (When the MKS-2700 is connected, select 2 for the slot and a value in the range 1 to 6 for the port.)

3 Press [Port Setting].

The DCU>Serial Port Assign>Extended VTR Setting menu appears.

At the top of the status area, the relevant serial port, slot number, protocol, serial port name, and SCU number appear. In the lower part of the status area, the response speed settings appear.

- 4** Using any of the following methods, specify the command to which the response speed setting applies.
 - Press directly on the list in the status area.
 - Press the arrow keys to scroll the reverse video cursor.

- Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------|----------------------|
| 1 | Item No | Item selection | 1 to 4 ^{a)} |

- a) 1. Maximum Open Delay: maximum time required to open a file
2. Maximum Cueup Delay: maximum time required to cue up a file
3. Play After Cueup Delay: maximum delay time from the cued-up state to begin playback
4. Stop Delay: delay time from issuing the stop command until actually stopping

5 Turn the knob to set the response speed of the Extended VTR.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------------|----------------|
| 2 | Setting | Response speed setting | 0 to 255 |

6 Press [Set].

This confirms the setting.

7 Repeat steps **4** to **6** as required to make the settings for other items.

Setup Relating to Router Interface and Tally

Router Interface Settings (Router Menu)

In this system, the interface with a router (routing switcher) uses the S-Bus protocol. It is therefore necessary to assign inputs and outputs of the switcher and so on to an S-Bus space.

To carry out this assignment, use the Router/Tally>Router menu. The assignment is common to the parallel and serial tallies.

To display the Router menu

In the Engineering Setup menu, select VF6 'Router/Tally' and HF1 'Router.' The status area shows the device names to be assigned to the S-Bus space, the matrix size, source address, destination address, and level.

Assigning switcher inputs and outputs to S-Bus space

Use the following procedure.

- 1** In the <Device> group of the Router/Tally>Router menu, select the device to which the settings apply.

SWR1: Settings apply to switcher 1.

SWR2: Settings apply to switcher 2.

Note

When there are two switchers on the same network, the SWR2 (second switcher) settings are required. If there is only one switcher, the settings are not required.

- 2** In the <Matrix Size> group, select the matrix size.

Standard (136 × 138): Assign the switcher S-Bus space at full size. You can assign all switcher inputs and outputs to the S-Bus space, but this causes some waste of S-Bus space.

Compact (128 × 128): Assign the switcher S-Bus space at compact size. It is not possible to assign all switcher inputs and outputs to the S-Bus space, but the S-Bus space can be used efficiently.

- 3** Turn the knobs to set the parameters for the following items.

Source: Specify the start address of the matrix source.

Destination: Specify the start address of the matrix destination.

Level: Specify the level in the S-Bus space.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---------------------------|-----------------------------|
| 1 | Source | Source start address | 1 and upwards ^{a)} |
| 2 | Destination | Destination start address | 1 and upwards ^{b)} |
| 3 | Level | Level | 1 to 8 |

a) When the matrix size is Standard, the maximum value is 889. For the Compact size, the maximum value is 897.

b) When the matrix size is Standard, the maximum value is 887. For the Compact size, the maximum value is 897.

Making an external box setting

Use the following procedure.

- 1 In the Router/Tally>Router menu, press [External Box Assign].

The External Box Assign menu appears.

The status area shows the external box size, address, and other settings.

- 2 In the <Device> group, select what the setting applies to (External Box 1 to 4).

- 3 In the <Matrix Size> group, select the number of inputs.

No Assign: Do not use.

8×1: Select an external box with 8 inputs and 1 output.

16×1: Select an external box with 16 inputs and 1 output.

32×1: Select an external box with 32 inputs and 1 output.

- 4 Turn the knobs to make adjustments.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---------------------------|--|
| 1 | Source | Source start address | 1 to 1017 ^{a)} 1 to 1009 ^{b)} 1 to 993 ^{c)} |
| 2 | Destination | Destination start address | 1 to 1024 |
| 3 | Level | Level | 1 to 8 |

a) When Matrix Size is 8×1

b) When Matrix Size is 16×1

c) When Matrix Size is 32×1

To couple external boxes

By coupling a number of external boxes, the number of inputs can be increased.

Here the example of coupling External Box1 and External Box2 is described.

- 1 In the External Box Assign menu, select [External box1] from the <Device> group.
- 2 In the <Matrix Size> group, select [8×1].
- 3 Turn the knobs to make adjustments.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|---------------------------|----------------|
| 1 | Source | Source start address | 1 to 1017 |
| 2 | Destination | Destination start address | 1 to 1024 |
| 3 | Level | Level | 1 to 8 |

- 4 In the <Device> group, select [External box2].
- 5 In the <Matrix Size> group, select [32×1].
- 6 Turn the knobs to make adjustments.
At this point make the settings of Destination and Level the same as in step 3.

This automatically couples External Box1 and External Box2, forming an external box with 40 (8+32) inputs.

To set the group number of an S-Bus description name

Use the following procedure.

- 1 In the <Alias Name Gp> group of the Router/Tally>Router menu, press [Gp No].
- 2 Turn the knob to set the following parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|--|----------------------|
| 1 | Gp No | Group number of S-Bus description name | 0 to 7 ^{a)} |

a) When setting values 1 to 7 are selected: If the name is not set, the description name for 0 appears. If the description name for 0 is not registered either, the Type and No values appear.

- 3 In the <Alias Name Gp> group, press [Set].

This confirms the setting, which is reflected in the status area.

Note

Transmit the description name selected here from the router.

Tally Group Settings (Group Tally Menu)

With the S-Bus protocol, tally control is possible for groups 1 to 8, but in this system you can use either groups 1 to 4 or groups 5 to 8.

You can also select whether or not to transfer the tally information over the S-Bus.

To select the tally groups, use the Router/Tally>Group Tally menu.

To display the Group Tally menu

In the Engineering Setup menu, select VF6 'Router/Tally' and HF2 'Group Tally.'

Setting the tally groups

Use the following procedure.

- 1** In the <Tally Group> group of the Group Tally menu, select the tally groups.

Group1 to 4: Use groups 1 to 4.

Group5 to 8: Use groups 5 to 8.

Note

For parallel tallies, regardless of this setting, you can use groups 1 to 8.

However, this setting is reflected in tally type parameter display (*see step 6 of the procedure for "Making or modifying parallel tally settings" (page 418)*).

- 2** Press [SBus Tally Enable], turning it on or off.

On: Enable the transfer of S-Bus tally information over the S-Bus.

Off: Disable the transfer of S-Bus tally information over the S-Bus.

Wiring Settings (Wiring Menu)

When configuring a system in which the switcher inputs and outputs are connected to a router, it is necessary to set this connection configuration (referred to as "wiring") in the S-Bus space.

To make the wiring settings, use the Router/Tally>Wiring menu. The settings are common to the parallel and serial tallies.

To display the Wiring menu

In the Engineering Setup menu, select VF6 'Router/Tally' and HF3 'Wiring.'

The status area shows the wiring settings.

Making new wiring settings

Use the following procedure.

- 1 In the Router/Tally>Wiring menu, press [New].

The New menu appears.

- 2 With a knob or menu operation, set the destination.

When switcher inputs and outputs are connected to the router in a group, you can specify the start and end destination addresses.

Destination From: Specify the start destination address for the wiring configuration.

Destination To: When the wiring configuration is multiple, specify the end destination address. For a single wiring connection, this setting is not required.

Destination Level: Specify the destination level of the wiring configuration.

| Knob | Parameter | Adjustment | Setting values |
|------|---------------------|---------------------------|----------------------------|
| 1 | Destination (From) | Destination start address | 1 to 1024 |
| 2 | Destination (To) | Destination end address | From start address to 1024 |
| 3 | Destination (Level) | Destination level | 1 to 8 |

- 3 Set the source.

Source From: Specify the source start address for the wiring configuration.

Source Level: Specify the source level for the wiring configuration.

| Knob | Parameter | Adjustment | Setting values |
|------|----------------|----------------------|----------------|
| 4 | Source (From) | Source start address | 1 to 1024 |
| 5 | Source (Level) | Source level | 1 to 8 |

- 4 Press [Execute].

This makes the wiring setting according to the specifications in steps 2 and 3.

Changing the wiring settings

Use the following procedure.

- 1** In the Router/Tally>Wiring menu, press [Modify].
The Modify menu appears.
- 2** Referring to steps **2** and **3** in the preceding section “Making new wiring settings,” change the parameters as required. In this case, however, it is not possible to specify multiple destinations in a single operation, and a single “Destination Address” must be specified.
- 3** Press [Execute].
This updates the wiring settings.

Deleting wiring settings

Use the following procedure.

- 1** In the Router/Tally>Wiring menu, using either of the following methods, select the wiring whose settings you want to delete.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
- 2** Press [Delete].
This deletes the selected wiring entry.

Sorting wiring settings

In the Router/Tally>Wiring menu, press [Sort].

The sorting of wiring settings are executed in the following order.

Destination level order (ascending)→Destination address order (ascending)→Source level order (ascending)

Tally Generation Settings (Tally Enable Menu)

For settings relating to tally generation, use the Router/Tally>Tally Enable menu. The settings are common to the parallel and serial tallies.

To display the Tally Enable menu

In the Engineering Setup menu, select VF6 ‘Router/Tally’ and HF4 ‘Tally Enable.’

The status area shows the tally generation settings.

Making new tally generation settings

Use the following procedure.

- 1 In the Router/Tally>Tally Enable menu, press [New].

The New menu appears.

- 2 Turn the knobs to set the following parameters.

| Knob | Parameter | Adjustment | Setting values |
|------|---------------------|---------------------|----------------------|
| 1 | Destination Address | Destination address | 1 to 1024 |
| 2 | Destination Level | Destination level | 1 to 8 |
| 3 | Tally Type | Tally type | 1 to 8 ^{a)} |

a) When you selected Group 1 to 4 in the section “Setting the tally groups” (page 412), this is 1:R1, 2:G1, 3:R2, 4:G2, 5:R3, 6:G3, 7:R4, and 8:G4.

When you selected Group 5 to 8, this is 1:R5, 2:G5, 3:R6, 4:G6, 5:R7, 6:G7, 7:R8, and 8:G8. (R is an abbreviation of “Red Tally,” and G of “Green Tally.”)

- 3 In the <Tally Enable> group, specify the tally generation mode.

Enable: Always generate a tally.

Disable: Never generate a tally.

Tally Input: Generate a tally from the tally input state.

- 4 When you selected Tally Input as the tally generation mode in step 3, select either of the following in the <Tally Input> group.

DCU1: Generate tally with reference to signal input to DCU1 port. Set the port number with the knob.

DCU2: Generate tally with reference to signal input to DCU2 port. Set the port number with the knob.

- 5 Turn the knob to select the tally input port number.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|-------------------------|----------------|
| 5 | Input No | Tally input port number | 1 to 102 |

- 6 Press [Execute].

This sets the settings made in steps 2 to 5 as the settings for tally generation.

Modifying tally generation

Use the following procedure.



- 1** In the Router/Tally>Tally Enable menu, press [Modify].
The Modify menu appears.
- 2** With reference to steps **2** to **5** in the preceding section “Making new tally generation settings,” change the parameters as required.
- 3** Press [Execute].
This modifies the tally generation settings.

Deleting tally generation settings

Use the following procedure.

- 1** Using either of the following methods in the Router/Tally Enable menu, select the tally generation entry you want to delete.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
- 2** Press [Delete].
This deletes the selected tally generation entry.

Tally Copy Settings (Tally Copy Menu)

For settings relating to the tally copy function, use the Router/Tally>Tally Copy menu. The settings are common to the parallel and serial tallies.

To display the Tally Copy menu

In the Engineering Setup menu, select VF6 ‘Router/Tally’ and HF5 ‘Tally Copy.’

The status area shows the tally copy status.

Making new tally copy settings

Use the following procedure.

- 1** In the Router/Tally>Tally Copy menu, select [New].
The New menu appears.
- 2** Turn the knob to select the copy-from source.
When setting more than one tally copy, you can specify the copy-from source start and end addresses.

| Knob | Parameter | Adjustment | Setting values |
|------|------------------|--------------------------------|----------------|
| 1 | Copy From (From) | Copy-from source start address | 1 to 1024 |
| 2 | Copy From (To) | Copy-from source end address | 1 to 1024 |

- 3** Specify the copy-to source address.

| Knob | Parameter | Adjustment | Setting values |
|------|----------------|--------------------------------|----------------|
| 3 | Copy To (From) | Copy-to source (start) address | 1 to 1024 |
| 4 | Copy To (To) | Copy-to source (end) address | 1 to 1024 |

- 4** Press [Execute].

This makes the tally copy setting according to the specifications in steps **2** and **3**.

Modifying tally copy settings

Use the following procedure.

- 1** In the Router/Tally>Tally Copy menu, press [Modify].
The Modify menu appears.
- 2** Use the knobs to select the copy source and copy destination.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------------|----------------|
| 1 | Copy From | Copy-from source | 1 to 1024 |
| 2 | Copy To | Copy-to source | 1 to 1024 |

- 3** Press [Execute].

This updates the tally copy settings.

Deleting tally copy settings

Use the following procedure.

- 1** In the Router/Tally>Tally Copy menu, using any of the following methods, select the tally copy whose settings you want to delete.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---|----------------|
| 1 | Copy No | Tally copy setting selection for deletion | 1 and upwards |

2 Press [Delete].

This deletes the selected tally copy entry.

Parallel Tally Settings (Parallel Tally Menu)

For settings relating to parallel tally, use the Router/Tally>Parallel Tally menu.

To display the Parallel Tally menu

In the Engineering Setup menu, select VF6 'Router/Tally' and HF6 'Parallel Tally.'

The status area shows the parallel tally settings.

Making or modifying parallel tally settings

Use the following procedure.

- 1 In the <Device> group of the Router/Tally>Parallel Tally menu, select DCU1 or DCU2.
- 2 Using any of the following methods, select the slot number and port number.
 - Press directly on the list appearing in the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------------------|-----------------------|
| 1 | Slot No | Parallel tally slot number | 2 to 6 ^{a)} |
| 2 | Port No | Parallel tally port number | 1 to 54 ^{b)} |

a) When the MKS-2700 is connected, select 2 for the slot and a value in the range 1 to 36 for the port.

b) When the MKS-2700 is connected, select a value in the range 1 to 36.

3 Press [Set].

The Set menu appears.

4 In the <Source/Destination> group, select the tally type.

Src: Return a tally to all sources output to the destination.

Dest: Return a tally to the destination outputting the source to which a source tally is returned.

5 Set the destination address and level.

The level setting is only required when in step **4** you selected Destination.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------------|----------------|
| 1 | Address | Destination address | 1 to 1024 |
| 2 | Level | Destination level | 1 to 8 |

6 When setting the tally type, set the following parameter.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|------------|----------------------|
| 3 | Type | Tally type | 1 to 8 ^{a)} |

a) When you selected Group 1 to 4 in the section “Setting the tally groups” (page 412), this is 1:R1, 2:G1, 3:R2, 4:G2, 5:R3, 6:G3, 7:R4, and 8:G4.

When you selected Group 5 to 8, this is 1:R5, 2:G5, 3:R6, 4:G6, 5:R7, 6:G7, 7:R8, and 8:G8. (R is an abbreviation of “Red Tally,” and G of “Green Tally.”)

7 Press [Execute].

This makes the parallel tally settings, in accordance with the settings in steps **1** to **6**.

Deleting parallel tally settings

Use the following procedure.

1 In the Router/Tally>Parallel Tally menu, using any of the following methods, select the parallel tally whose settings you want to delete.

- Press directly on the list appearing in the status area.
- Press the arrow keys to scroll the reverse video cursor.
- Turn the knobs.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|----------------------------|----------------|
| 1 | Slot No | Parallel tally slot number | 2 to 6 |
| 2 | Port No | Parallel tally port number | 1 to 54 |

2 Press [Clear].

This deletes the selected parallel tally entry.

Serial Tally Settings (Serial Tally Menu)

To make serial tally settings, display the Router/Tally>Serial Tally menu.

To display the Serial Tally menu

In the Engineering Setup menu, select VF6 'Router/Tally' and HF7 'Serial Tally.'

The serial tally settings appear in the status area.

Setting or changing the serial tally settings

Use the following procedure.

- 1 In the <Serial Tally Port> group of the Serial Tally menu, select the port to which the setting applies.
- 2 In the <Tally Type> group, press the tally types to select. (You can select up to four.)

Note

The selectable tally types depend on the settings in the Group Tally menu.

Making the serial tally source address settings

To set the serial tally source address for each port, use the following procedure.

- 1 In the Serial Tally menu, press [Source Assign].
The Source Assign menu appears.
In the status area, the tally types and source address set for the serial tally port appear.
- 2 In the <Serial Tally Port> group, select the port to which the setting applies.
- 3 Using any of the following methods, select the port bit number.
 - Press directly on the list on the left of the status area.
 - Press the arrow keys to scroll the reverse video cursor.
 - Turn the knob.

| Knob | Parameter | Adjustment | Setting values |
|------|-----------|---------------|----------------|
| 1 | Bit No | Bit selection | 1 to 128 |

- 4 Turn the knob to select the source address.

| Knob | Parameter | Adjustment | Setting values |
|------|-------------|--------------------------|----------------|
| 2 | Source Addr | Source address selection | 1 to 1024 |

5 Press [Source Address Set].

This confirms the setting.

Clearing a source address setting

To clear a source address setting for a particular bit

In the Source Assign menu, select the serial tally port and bit number (*see steps 2 and 3 in the previous item*), then press [Clear].

This clears the source address setting for the selected bit.

To clear all source address settings

In the Source Assign menu, select the serial tally port, then press [All Clear]. A confirmation message appears.

- If you select “Yes,” this clears all source address settings for the selected serial tally port.
- If you select “No,” the clear operation is canceled.

Simple Connection of the MKS-8080/8082 AUX Bus Remote Panel

Procedure for Simple Connection

To carry out simple connection of the MKS-8080/8082 AUX Bus Remote Panel, use the following procedure.

For settings on the MKS-8080/8082, refer to the section “Making the Setting With Buttons (Setup Function)” in the Operation Manual for the MKS-8080/8082.

- 1** Carry out initialization of the MKS-8080/8082 settings.
This can be done on the MKS-8080/8082 separately.
- 2** Set the MKS-8080/8082 station number in the range 2 to 17.
This can be done on the MKS-8080/8082 separately.
- 3** Set the S-Bus data link primary station to the CCP-8000 Center Control Panel.

Set the STATION ID switches S903 on the front of the CA-45 board in the SCU SLOT 1 to 001 (switch 1 only to the OPEN position).
- 4** In the Engineering Setup> System> Initialize menu, select PNL, and carry out a reset.

This carries out a restart, and when the restart is completed connection to the MKS-8080/8082 is possible.
- 5** In the Engineering Setup>Router/Tally> Router menu, set the position of the MVS-8000 system in S-Bus space.

Select the setting from SWR1 and SWR2, and set each of Source, Destination, and Level to 1.

Setting Status of the MKS-8080/8082 in Simple Connection

As a result of making the simple connection, the MKS-8080/8082 operates in AUX bus mode, and the settings are the following factory defaults.

With regard to the meaning of the following settings, refer to the section “Menu Operations” in the Operation Manual for the MKS-8080/8082.

C: SET SWITCHER ID (for AUX mode)

This is set to 001, which is the station number of the CCP-8000.

D: SET AUX DESTINATION/SOURCE (for AUX mode)

The source is set to IN001 and following, and destination is set to OUT001 and following.

H: SET PHANTOM TABLE (for Router mode)

This is unset, since the unit does not operate in router mode.

N: SET PANEL TABLE (for Router mode)

The source is set to IN001 and following, and destination is set to OUT001 and following. However, since the unit does not operate in router mode, these settings are not used.

R: SET ROUTE

Since when using the simple connection the switcher and router cannot be connected in cascade, no route setting is required, and this is unset.

O: SET AVAILABLE SOURCE/DESTINATION

Set the source and destination ranges so that the MVS-8000 inputs and outputs can be selected.

Y: SET DISPLAY MODES

The DISPLAY MODES/PANEL FUNCTION setting is set to NORMAL. The TALLY GROUP setting is set to be the same as the setting in Engineering Setup>Router/Tally> Tally Group on the MVS-8000.

Z: SET PANEL STATUS

The various settings are the same as the factory default settings.