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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 the 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).)

Note

Single Simul mode is disabled for a DVS-9000 system.

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

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 244*) 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.

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.

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].

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.

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 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.

To save the Initial Status settings

Use the following procedure.

- 1 After selecting the devices 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 key bus delegation buttons are saved.

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 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 the [Install] button.

The System>Install/Unit Config>Install menu appears, showing a list of the software contained in the memory card.

- 3 Using any of the following methods, select the device.

All: When this is on, all devices are selected for the operation.

Plural: When this is on, you can specify a number of devices to which the operation will apply. In this case, in the status area, press the desired

devices, turning them to reverse video. To cancel a selection, press once more to return to normal display.

When both of the above buttons are off: You can specify any device in the status area.

- 4** To carry out installation, press [Execute].

A confirmation message appears.

- 5** Select [Yes].

This installs the software.

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-9250	Simple P/P software
BZS-9420	Color corrector software
BZS-9471	Texture lighting software (for BKDS-9470)
BZDM-9050	Texture lighting software (for MVE-9000)

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.

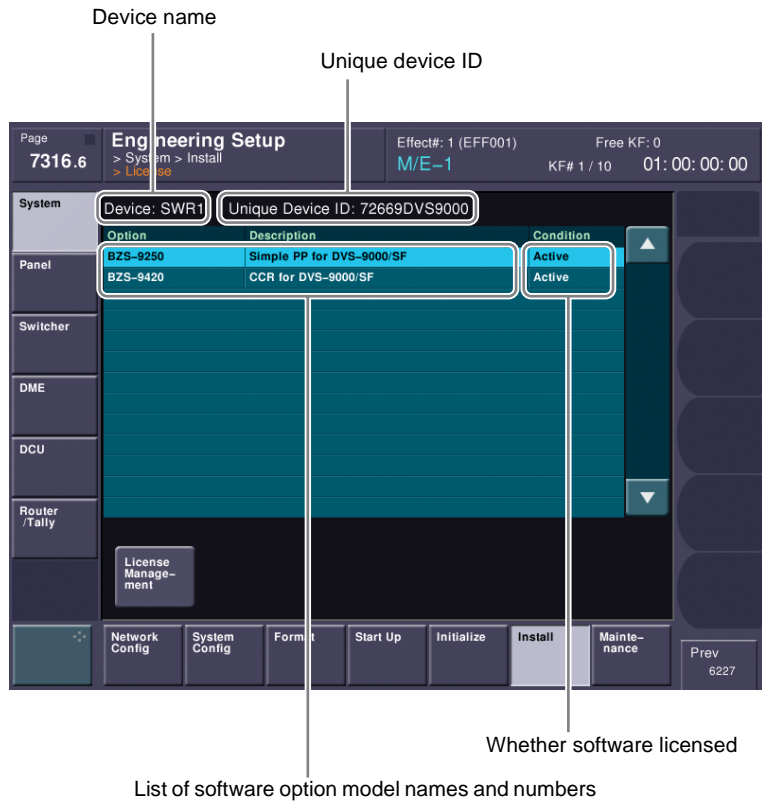
To display the unique device ID

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.

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)

To carry out system date and time settings, and memory card formatting, use 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.

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 any 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 [OK].

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.

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.

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 operating banks, the allocated operating bank names, and whether or not operation is enabled.

Interchanging the operating bank order or disabling operation

Use the following procedure.

- 1 In the Panel>Config menu, select the Bank you want to set, using either 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 operating 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 operating 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 operating 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 operating 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 operating bank.

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

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

Note

When this is set to Inhibit, snapshots of the operating 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 operating bank for which you want to make the setting	1 to 4

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 for Bank.

2 Press [Dual M/E Assign].

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

To return to the original assignment

Interchange the operating bank order (*see page 258*).

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 operating 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



Knob	Parameter	Adjustment	Setting values
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 bus names 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.

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
- Joy Stick

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 a standard type 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 standard type transition control block from the <NORM/NORM REV/REV Button Assign> group.
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 button numbers of the cross-point buttons, and the assigned video/key source names, and source name display color.

Assigning signals to cross-point buttons

For each button number, a pair consisting of a video signal and a key signal is assigned. You can also assign the same signal to another button number at the same time.

When carrying out key operations on a bank, if the key fill and key source selection mode is set to [Auto Select], the signals are selected according to this pair setting. (See "Selecting Key Fill and Key Source" in Chapter 4 (Volume 1).)

To assign a video signal or key signal to cross-point buttons, proceed as follows.

1 In the Panel>Xpt Assign menu, press [Source Select].

The Source Select menu appears.

The upper part of the status area shows the currently selected button number together with the currently assigned video and key signal names. The lower part shows a list of the signals which can be assigned.

- 2 Use any of the following methods to select the button to which the assignment relates.
 - 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.)
 - Turn the knob.

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

- 3 When assigning a video signal, press [Video] in the <Xpt> group. When assigning a key signal, press [Key].
- 4 Use any of the following operations to assign the signal.
 - 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

To inhibit operation of certain button numbers

In the Panel>Xpt Assign menu, select the button number you want to inhibit, then press the [Inhibit] button.

Setting the source signal name and source name display color

Use the following procedure.

- 1 In the Panel>Xpt Assign menu, press [Source Select].
The Source Select menu appears.
- 2 Turn the knob to select the signal to be set.

Knob	Parameter	Adjustment	Setting values
3	Source No	Source signal selection	1 to 128

- 3 To set the source name, 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).
- 5 To set the source name display color, in the <LCD Color> group select the color (Orange/Green/Yellow).

Using multi cross-point assign tables

In addition to the normal assignment (“main table”), as “cross-point assign tables” you can create up to four “sub” tables (Sub1 to Sub4). However, you can only carry out assignment of the video and key combinations in the Main table.

You can select the 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 [Multi Xpt Assign].
The Multi Xpt 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	Bank/Bus	Bank or bus selection	1 to 108

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

Creating a “sub” table

To set the Sub table, use the following procedure.

- 1 In the Panel>Xpt Assign>Multi Xpt Assign menu, press [Sub Table Assign].
The Sub Table Assign menu appears.
The status area shows a list of the sub table assignments.

2 In the <Sub Table Select> group, select the sub table you want to set.

3 Using any of the following methods, select the cross-point button for which you want to make an assignment.

- Press a cross-point button in the auxiliary bus control block.
(The auxiliary bus control block is in selection mode, only when the menu for cross-point button selection is showing.)
- 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	Sub Button No	Sub cross-point button selection	1 to 128

- To disable operation of a button number, press [Inhibit].

4 Turn the knob to select the main cross-point button number to be assigned.

Knob	Parameter	Adjustment	Setting values
3	Main Source No	Main cross-point button selection	1 to 128

To select a cross-point button number while checking which sources can be selected

In place of steps **3** and **4** in the above procedure, you can use the following procedure for the setting.

1 Press [Source Select].

The Source Select menu appears.

In the upper part of the status area, the selected Sub and Main button numbers and the currently assigned video and key signal names appear. In the lower part, a list of the assignable signals appears.

2 Referring to steps **3** and **4**, select the signal to be assigned.

Setting 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>Multi Xpt 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.

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

In the <Shift Mode> group of the Panel>Xpt Assign>Multi Xpt 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 individual switcher banks.
- “Shift All Bus” is only valid when the cross-point button shift operation (*see previous item*) is set to “Lock” or “Off.”

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.

- 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.

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 121 ^{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 to 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 64
2	No	Destination selection in S-Bus space	1 to 1024

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

2 Press [Dest Set] to confirm the selection.

3 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 effective 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 effective 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 64

- 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).

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 280).*

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 to ...

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
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



Command name ^{a)}	Function	Button status	
		Lit amber	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

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).

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 284).*

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 to ...

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
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

Command name ^{a)}	Function	Button status	
		Lit green	Lit orange
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
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
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



Command name ^{a)}	Function	Button status	
		Lit green	Lit orange
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

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” has been assigned, use the Shotbox 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.

 : 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 operating 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 to ... ^{a)}
5	Reg No	Register number	1 to 4 ^{b)} 1 to 99 ^{c)} 1 to 399 ^{d)}

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”

d) When knob 2 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 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 to ...

- 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 No	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.
-  : 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 to ... ^{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.

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) connected to these ports. For a disk recorder, 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 341).

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 to maximum ^{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.

Note

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.

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

Sharing disk recorder file lists

Use the following procedure.

- 1** In the Panel>Device Interface>Serial Port Assign menu, select the disk recorder whose files you want to share with other disk recorders.
 - 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 to maximum ^{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 any 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 one 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 effected 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.

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 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 350) 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 + No.: Type + No. 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.

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] or [Effect], select [Register No] or [Register Name] in the <Snapshot/Effect Display> group.

For details, see Chapter 5 “Wipes” (Volume 1), Chapter 6 “DME Wipes” (Volume 1), Chapter 13 “Keyframe Effects” (Volume 2) and Chapter 14 “Snapshots” (Volume 2).

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 309*).

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 [×1], [×2], or [×4].

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

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

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

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

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 [OK].
 - 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 operating bank.

Adjusting the reference phase

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

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)

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 299), 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 299), 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.
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.

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 to ...

- 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.

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.

Knob	Parameter	Adjustment	Setting values
6	Src No	Input signal selection	1 to 80

- 3** Press [Video Process], turning it on.

- 4** Adjust the following parameters.

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	-7.30 to +109.58

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 any 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	—

- 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 video clip adjustment, vertical blanking interval adjustment and through mode setting, and safe title setting, use either 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.

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
1	White Clip	Luminance signal white clip value	90.00 to 109.02
2	Dark Clip	Luminance signal dark clip value	-6.85 to +10.00
3	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

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.
 - AUX1 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.

Note

This setting is disabled for the DVS-9000 system.

- 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** Using any of the following methods, select the 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	Output No	Output port to which setting applies	1 to 48 ^{a)}

a) Depends on what processor output boards are installed.

- 3** 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 any 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 any 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.

- 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 operating bank.

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 operating 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 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.

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

Use the following procedure.

In the Switcher>Key/Wipe/FM menu, adjust the following parameter to set the default value.

Knob	Parameter	Adjustment	Setting values
3	Wipe Edge 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 operating 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 112

- 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.

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.

 : 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 operating 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 to ... ^{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, 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	Signal format/screen aspect ratio selection	1 to ...

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.

Note

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.

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.
-  : 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 to ... ^{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 MVE-9000 and the switcher

Use the following procedure.

- 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 [SDI], turning it on. ([Dedicated] is disabled.)

Dedicated: The MVE-9000 has an MVS-8000-series dedicated interface.
SDI: The MVE-9000 has an SDI interface.

Setting the AUX bus output and reentry input

Select the signal input to the MVE-9000 (AUX bus output) and the signal returned as the switcher primary input (reentry input) as follows.

Note

Before the following operations, carry out the procedure described in the previous item “*Setting the interface between the MVE-9000 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

- 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 one 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 MVE-9000 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 MVE-9000 system phase adjustment

To adjust the MVE-9000 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 monitor output

To set the signals output from the four MVE-9000 monitor output connectors, use the following procedure.

- 1 In the Engineering Setup menu, select VF4 'DME' and HF3 'Output.'
The Output menu appears.
- 2 Press [Monitor Output].
The Monitor Output menu appears.
- 3 In the <Select> group, select the DME to which the setting applies.
DME1: Select DME1.
DME2: Select DME2.
- 4 In the list on the left of the status area, press directly on the monitor output for which you want to make setting.
- 5 In the list on the right of the status area, press directly on the signal you want to output.
- 6 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.

Independent: Control channels 1 to 4 individually through Editor ports 1 to 4.

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

Knob	Parameter	Adjustment	Setting values
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.
-  : 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 to ... ^{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 to ...

- 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
3	GPI Input	GPI input	1 to 50

- 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.

 : 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 to ... ^{a)}
5	Reg No	Register number	1 to 4 ^{b)} 1 to 99 ^{c)} 1 to 399 ^{d)}

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”

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 to ...

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
2	Parallel Output Port	Output port	1 to 54
5	GPI Output	GPI output	1 to 50

- 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

Knob	Parameter	Adjustment	Setting values
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.

 : 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 to ... ^{a)}
5	Reg No	Snapshot register number	1 to 4

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
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

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 to max. ^{a)}

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

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 5 ^{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)

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: 1 to 5 (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 to 30

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 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 to 30

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): Normally LTC is used, but when the tape speed is such that LTC cannot be read ($\frac{1}{8}$ normal speed or below), or the LTC cannot be read for some other reason, this is interpolated using CTL pulses or timer counter pulses.

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 to 30

- 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: maximum delay time from the cued-up state to begin playback
 4. Play After Open Next Delay: maximum 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

- This confirms the setting.

- ### 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 to 30

- 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.

- 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
4. Play After Cueup Delay: Delay from the cueup state to play
5. Stop Delay: Delay 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.

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 to maximum value ^{a)}
2	Destination	Destination start address	1 to maximum value ^{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.
- 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].

Every time you press [Sort], the order of wiring settings changes in the following order.

Destination level order→Destination address order→Source level order

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 Group1 to 4 in the section “Setting the tally groups” (page 351), this is 1:R1, 2:G1, 3:R2, 4:G2, 5:R3, 6:G3, 7:R4, and 8:G4.

When you selected Group5 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 any 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

Knob	Parameter	Adjustment	Setting values
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 either 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 to ...

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
2	Port No	Parallel tally port number	1 to 54

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 parameters.

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 351), 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 DVS-9000 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 DVS-9000 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 DVS-9000.

Z: SET PANEL STATUS

The various settings are the same as the factory default settings.