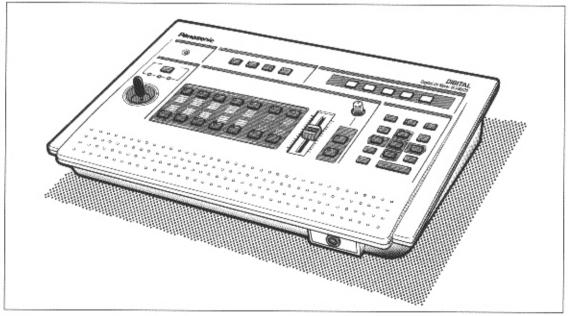
Operating Instructions

Digital AV Mixer WJ-MX20

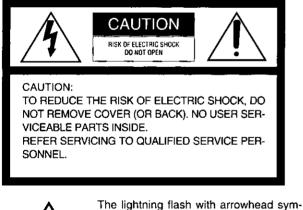




Before attempting to connect or operate this product, please read these instructions completely

CAUTION:

Before attempting to connect or operate this product, please read the label on the bottom.





bol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance. Warning:

This equipment generates and uses radio frequency energy and if not installed and used properly, i.e., in strict accordance with the instruction manual, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment.

----- For CANADA -

----- For U.S.A -

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

The serial number of this product may be found on the bottom of the unit.

You should note the serial number of this unit in the space provided and retain this book as a permanent record of your purchase to aid identification in the event of theft.

Model No.

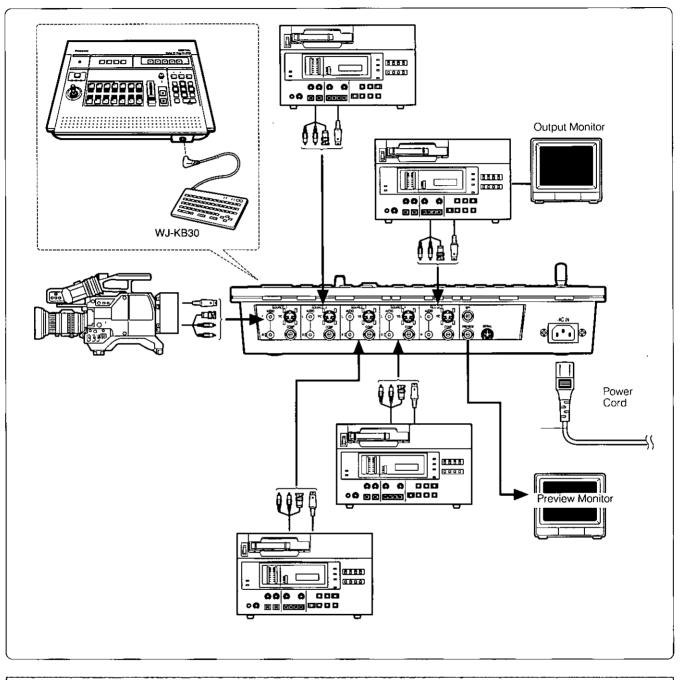
Serial No. _

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

Quick Start

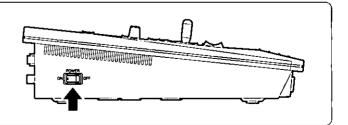
CONNECTION

Precaution: When supplying the composite video signal and S-video signal simultaneously, the S-video signal has priority.



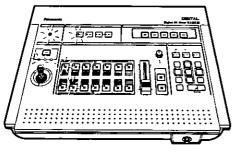
Power On

- **Precaution:** Be sure to connect the Power Cord firmly between AC IN on the rear panel of this unit and a local AC Outlet.
 - Press the Power Switch on the side panel to the ON position.



Initial Mode

The LED's on the operation panel light up as shown, indicating that the unit is now in initial mode for operation.

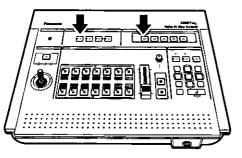


Video Source Selection

Press the desired button for A-bus video source. Press the desired button for B-bus video source.

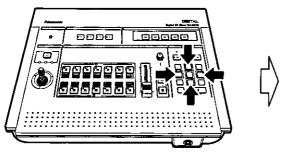
Wipe

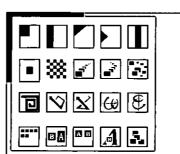
- Press WIPE/MIX button. The LED on this button lights up.
- Press WIPE button. The wipe patterns are displayed on the preview monitor.



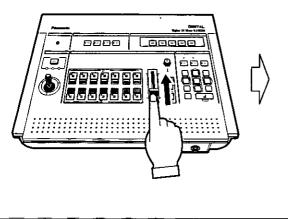
◙▧◙◙	

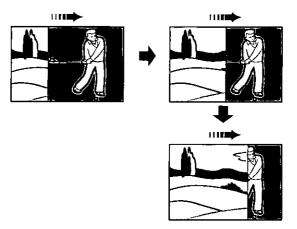
• Select 🔲 by using the Up/Down/Left/Right button.





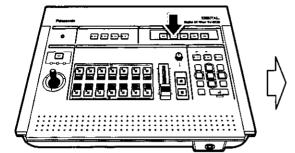
• Slide the Wipe/Mix Control to the A-bus position.



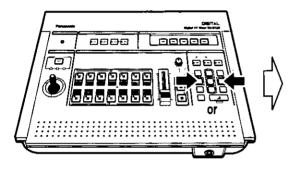


Effect

- Ex.: MOSAIC effect on B-bus
 - Press EFFECT button. The EFFECT menu is displayed on the preview monitor.

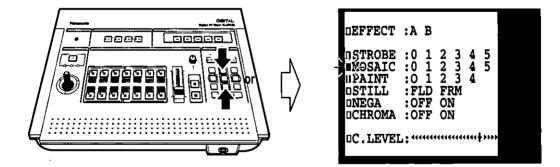


• Select B by using the Left/Right button.

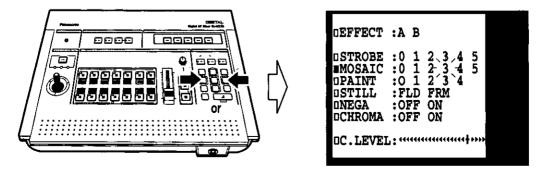


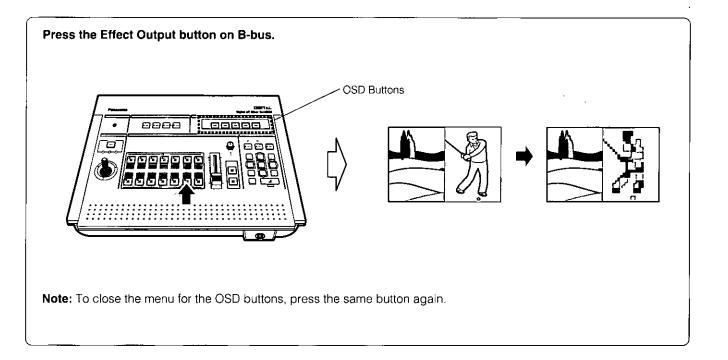
EFFECT	:A_B
USTILL	:0 1 2 3 4 5 :0 1 2 3 4 5 :0 1 2 3 4 :FLD FRM :OFF ON :OFF ON
OC.LEVEI	ı ; «««««««««««««»»»»»»»»»»»»»»»»»»»»»»»

• Move the cursor to the MOSAIC position by using the Up/Down button.

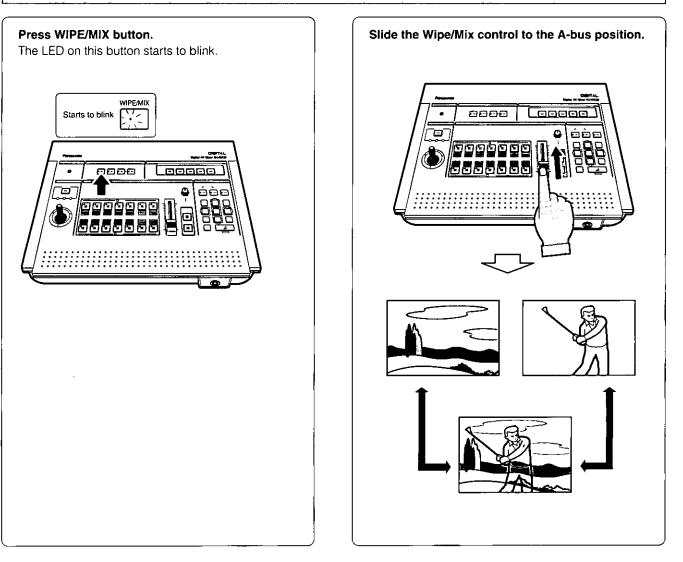


• Select the desired level (in this case, 3) by using the Right/Left button.





Mix



Dear Customer -

We would like to take this opportunity to thank you for purchasing a Panasonic Digital AV Mixer (WJ-MX20).

Please read these Operating Instructions carefully and keep them handy for later reference.

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Border Color Setting	
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Preface

Two-channel digital frame synchronization permits special effects in each of the A/B program buses. Four sources can be switched, and any two of them are routed to the program buses. The A/B program buses can be monitored at the A/B program recording output and can be selected at the EFFECT switch in the PROGRAM OUT section. There is an external Editing Controller Input for RS-422 serial controls. Also, a GPI input is featured. This means the WJ-MX20 is compatible with a wide variety of video editing devices to complement the video editing system.

Main Features

- Digital effect Still, Strobe, Mosaic, Paint, Negative
- · Chroma Key, Luminance Key
- 298 wipe patterns
- Back color
- Joystick control for picture position and color correction
- Fade control for video and audio
- Audio mixing
- External video titler inputs
- Four audio/video source inputs
- RS-422 interface

Precautions

The WJ-MX20 is a sensitive, high quality product and should be handled as such. Because it is an electrical device, the danger of electric shock exists if it is used carelessly.

DON'T

- Do not attempt to disassemble the unit. In order to prevent electric shock, do not remove screws or covers. There are no user-serviceable parts inside.
- Do not abuse the unit. Avoid striking, shaking etc. It could be damaged by improper handling or storage.
- Do not use strong or abrasive detergents when cleaning the unit's body.
- Do not expose the unit to water or moisture, and do not operate it in wet or humid areas.
- Do not use the unit in an extreme environment of high temperature or high humidity.

DO'S

- · Refer all servicing to qualified service personnel.
- Handle the unit with care.
- Use a dry cloth to clean the unit when dirty. In case dirt is hard to remove, use a mild detergent and wipe gently.
- Take immediate action if ever the unit should become wet. Turn the power off and refer servicing to qualified service personnel. Moisture can damage the unit and also create the danger of electric shock.
- Use the unit at ambient temperatures from 0°C to 40°C (32°F 104°F) and humidity below 90%.

FUNCTIONS ———

Video Mix Refer to page 16.

The two video signals are mixed in desired proportions to produce a new output signal.

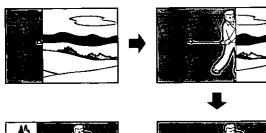


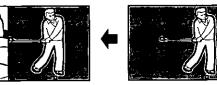




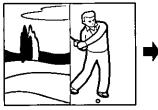
A process in which one image is electronically "wiped" off the screen and replaced by another.

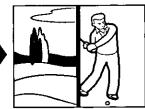
• Wipe Direction mode



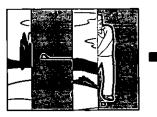


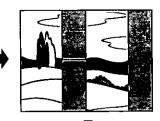
• Edge mode

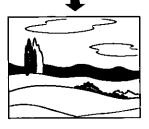




Multi mode







Special mode

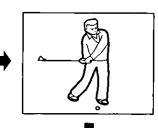


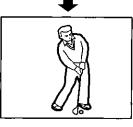


The following is a detailed description of the functions of the DIGITAL EFFECT section which generates digital special effects for the A-bus and B-bus source video signals. The selected effect(s) can be added to either the A-bus or B-bus at one time.

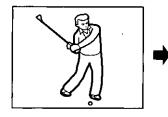
Strobe

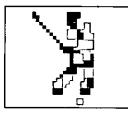




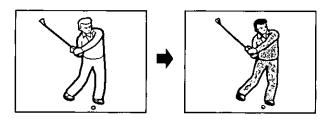


Mosaic





Paint

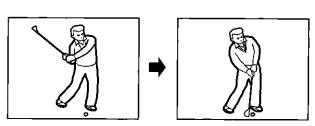


Nega





■ Still



Chroma

Alters a video signal to affect the colors.





Chroma Level Selects the desired chroma level.

Color Setting Refer to page 31.

This function allows color adjustment of a selected input source, as well as compensation for excessive color.

Audio Mix Refer to page 37.

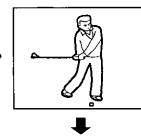
Mix two selected audio sources at a selected ratio with the Mix/Wipe Control.

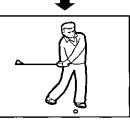
Fade In/Fade Out Refer to page 35.

The video, title and audio can be faded together or in any combination.

To white







To Black

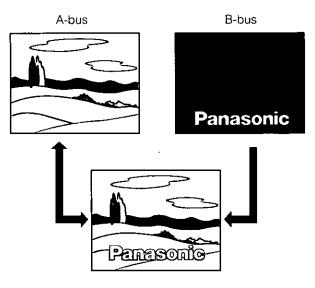






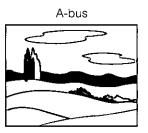
Luminance Key Refer to page 39.

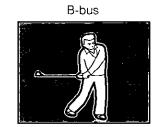
To change the brightness by replacing portions of one picture with other portions.



Chroma Key Refer to page 40.

The process of replacing portions of one video signal with another by replacing a certain color range with that of the second signal.



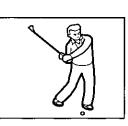


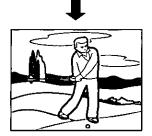


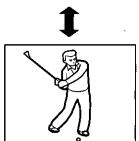
Auto Take/Fade Refer to page 41.

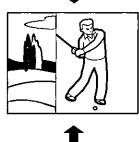
In addition to using the Mix and Wipe Control Slider, Mix and Wipe operation can also be performed automatically by using the Auto Take function.

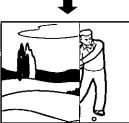












Event Memory Refer to page 41.

Up to four preset functions can be memorized and recalled.

Scene Grabber Refer to page 44.

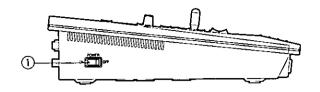




MAJOR OPERATING CONTROLS AND THEIR FUNCTIONS

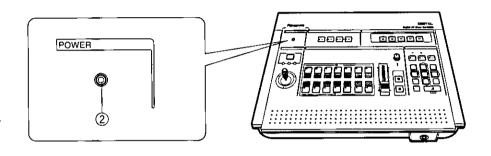
Side View ·

(1) Power Switch (POWER ON/OFF)

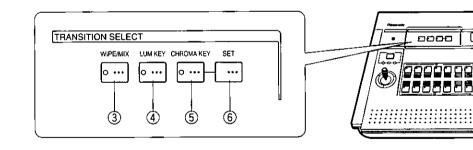


■ POWER Section

(2) Power Indicator



■ TRANSITION SELECT Section



(3) Wipe / Mix Button (WIPE/MIX)

Used to select either Wipe or Mix Effect. Wipe selected Lit : Blinking : Mix selected

(4) Luminance Key Button

Used to replace certain luminance of one picture with that of another picture.

(5) Chroma Key Button

Used to replace certain color of one picture with that of another picture.

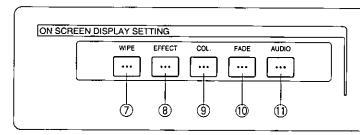
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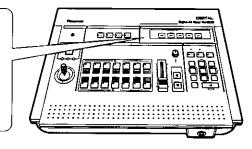
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(6) Set Button

Used to select a color or colors to remove using the chroma key.

ON SCREEN DISPLAY SETTING Section -





(7) Wipe Button (WIPE)

Used to display the Wipe menu on the preview monitor.

(8) Effect Button (EFFECT)

Used to display the Effect Setting menu on the preview monitor.

(9) Color Button (COL.)

Used to select the color for the back color or the wipe edge.

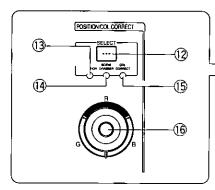
(10) Fade Button (FADE)

Used to display the Fade Setting menu on the preview monitor.

(11) Audio Button (AUDIO)

Used to display the Audio Setting menu on the preview monitor.

POSITION/COL. CORRECT Section .



(12) Select Button (SELECT)

Used to select POSITION, SCENE GRABBER or COL CORRECT.

Notes :

- 1. Scene Grabber is available with the **I** pattern.
- Color correction is selected when the CHRO-MA ON mode is selected and the desired Effect Output Button is pressed.

(13) Position Indicator (POSITION)

(14) Scene Grabber Indicator (SCENE. GRA.)

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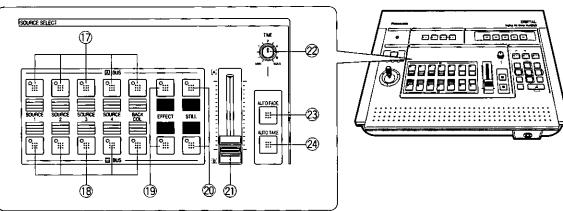
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(15) Color Correct Indicator (COL CORRECT)

(16) Joystick Control

This Joystick Control has three functions: setting the position of the specified wipe pattern, moving the cursor for setting the chroma key and correcting the Color A-bus / B-bus.

SOURCE SELECT Section



(17) A-bus Selection Buttons (A)

- **SOURCE 1:** Used to select Source 1 Audio/Video Signals (35)(36)(37) supplied to the rear panel.
- **SOURCE 2:** Used to select Source 2 Audio/Video Signals (38)(39)(40) supplied to the rear panel.
- **SOURCE 3:** Used to select Source 3 Audio/Video Signals (41)(42)(43) supplied to the rear panel.
- **SOURCE 4:** Used to select Source 4 Audio/Video Signals (44)(45)(46) supplied to the rear panel.

BACK COL: Used to select the Back Color.

(18) B-bus Selection Buttons

The same selections are available as for the A-bus Selection buttons (17).

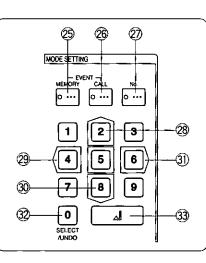
(19) Effect Out Buttons (EFFECT)

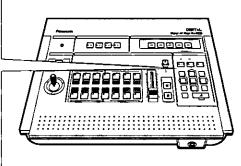
Used to supply the effect signal to the preview and Rec Out connectors.

■ MODE SETTING Section -

(25) Event Memory Button (EVENT MEMORY) Used to memorize the present status.

- (26) Call Button (CALL) Used to recall the memorized status.
- (27) Number Button (No.)
- (28) Up Button
- (29) Left Button
- (30) Down Button
- (31) Right Button
- (32) SELECT/UNDO Button
- (33) Enter Button (J)





(20) Still Out Buttons (STILL)

An instant still or frozen image can be obtained by pressing this button.

(21) Mix/Wipe Control

Mix and wipe can be performed by operating this control.

(22) Time Control (TIME)

For adjusting the transition time of the Auto Fade Function and Auto Take Function.

(23) Auto Fade Button (AUTO FADE)

Executes automatic fade within the time set by TIME Control.

(24) Auto Take Button (AUTO TAKE)

Executes automatic wipe or mix within the time set by TIME Control.

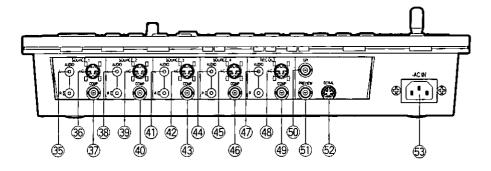
Note: The Selection Button pressed blinks depending on the status of the Mix/Wipe Control and Auto Take button.

Front Panel ·

(34) Titler Connector (TITLE)



Rear Panel



- (35) Source 1 Audio Input Jack (SOURCE 1 AUDIO)
- (36) Source 1 S-video Input Connector (Y/C)
- (37) Source 1 Composite Video Signal Input Jack
- (38) Source 2 Audio Input Jack (SOURCE 2 AUDIO)
- (39) Source 2 S-video Input Connector (Y/C)
- (40) Source 2 Composite Video Signal Input Jack
- (41) Source 3 Audio Input Jack (SOURCE 3 AUDIO)
- (42) Source 3 S-video Input Connector (Y/C)
- (43) Source 3 Composite Video Signal Input Jack
- (44) Source 4 Audio Input Jack (SOURCE 4 AUDIO)
- (45) Source 4 S-video Input Connector (Y/C)

- (46) Source 4 Composite Video Signal Input Jack
- (47) Recording Out Audio Output Jack (REC OUT AUDIO)
- (48) Recording Out S-video Output Connector (REC OUT Y/C)
- (49) Recording Out Composite Video Signal Output Jack
- (50) GPI Connector (GPI) Refer this connection to qualified service technician or system Installer.
- (51) Preview Output Connector

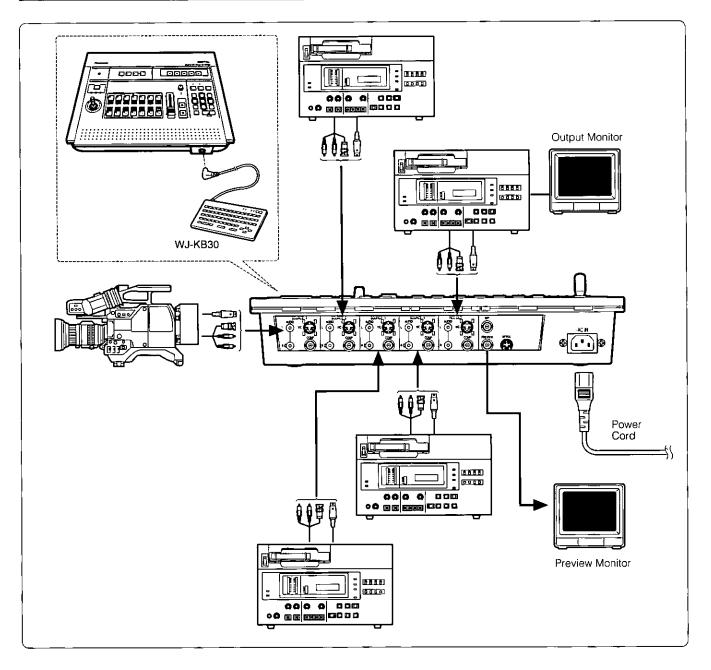
Connect to the video input connector of the preview monitor.

(52) Serial Connector (SERIAL)

This connector is used for connecting an AG-850 Editing Controller or similar unit by RS-422 format.

(53) Power Socket (AC IN) Connect the Power Cord (provided) to this socket.

SYSTEM CONNECTION

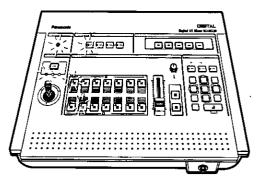


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BASIC OPERATIONS

Press the Power Switch on the side panel to the ON position.

The LED's on the operation panel light up as shown, indicating that the unit is now in initial mode for operation.



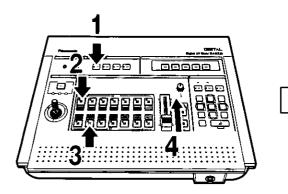
■ Input Signal Selection -

- 1. Slide the Mix/Wipe Control to the A-bus position.
- 2. Press any of the SOURCE 1, SOURCE 2, SOURCE 3, SOURCE 4 or BACK COL. buttons. You will see each picture on the screen.
- **3.** Press BACK COL. button. The LED on the button selected in step 2 starts blinking.
 - For Back Color Selection see "Back Color Setting" on page 31.

The same procedures apply to the B-bus.

Video Mix -

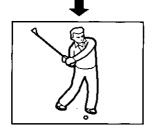
- **1.** Press WIPE/MIX button. The LED on this button starts to blink.
- 2. Press one of the A-bus Selection buttons.

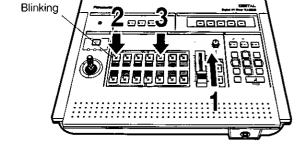


- 3. Press one of the B-bus selection buttons.
- **4.** Operate the Mix/Wipe Control.









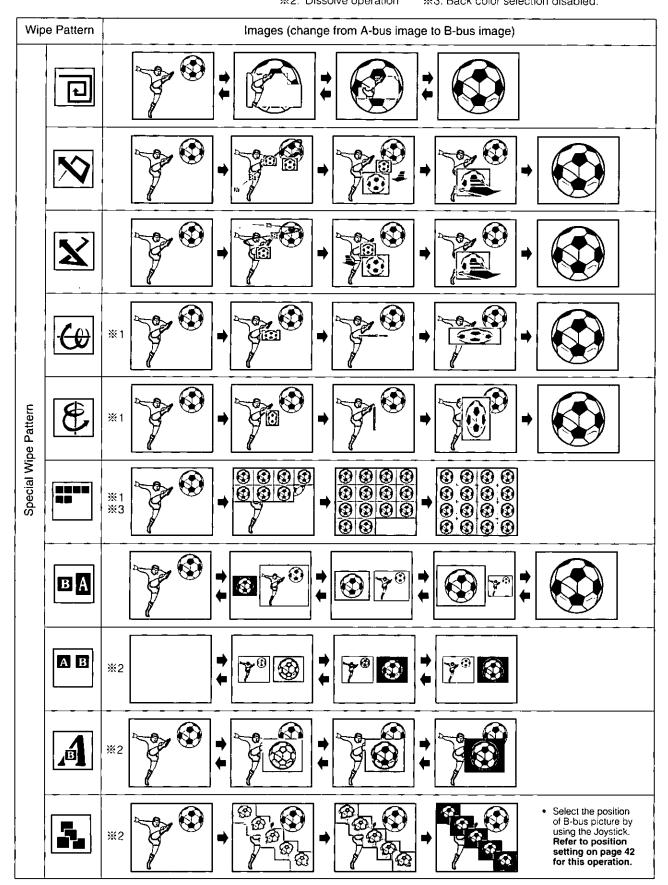
ON-SCREEN DISPLAY OPERATIONS

Video Wipe

Wipe Description -

% 1: This pattern should be controlled with Auto Take Button only. ※2: Dissolve operation ※3: Back color selection disabled. Images (change from A-bus image to B-bus image) Wipe Pattern ٢ ų Basic Wipe Pattern ۲ ۲ • (۲ 4 ۲ Special Wipe Pattern ※1 ※3 ※1 ※3 ۲ •-<u>×1</u>

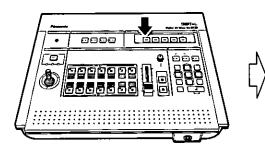
%1: This pattern should be controlled with Auto Take Button only.%2: Dissolve operation %3: Back color selection disabled.

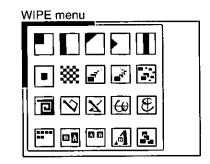


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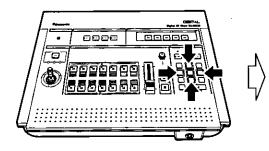
1. Press WIPE button.

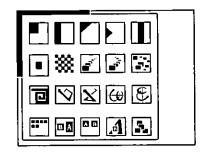
The following WIPE menu is displayed on the preview monitor.



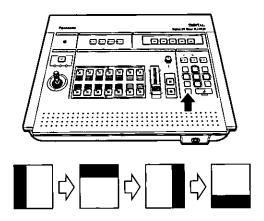


2. Select the desired wipe pattern by using the Up/Down/ Right/ Left Button.





3. Press SELECT/UNDO button repeatedly to select the Sub Pattern modes.

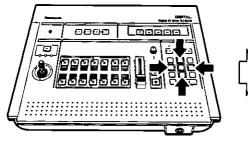


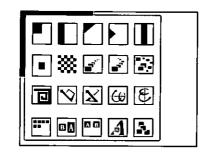
The wipe patterns shown inside the dotted line have Sub Pattern modes.

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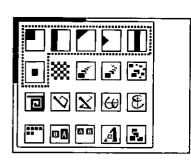
Wipe Direction Setting -

- 1. Press WIPE button. Wipe patterns are displayed on the preview monitor.
- 2. Select the desired wipe pattern by using the Up/Down/ Right/ Left Button.





This setting is available for the patterns shown inside the dotted line.

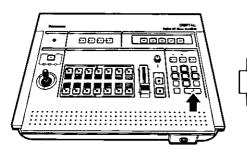


3. Press 🛛 button.

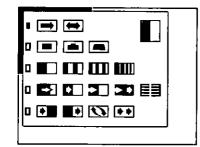
button.

The Mode Table is displayed on the preview monitor. Notes:

- 1. To set the color for the wipe edge, select mode.
- 2. The color modes framed in blue in the Mode Table can be selected.



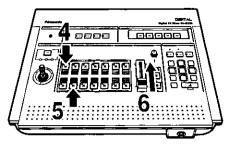
Mode Table

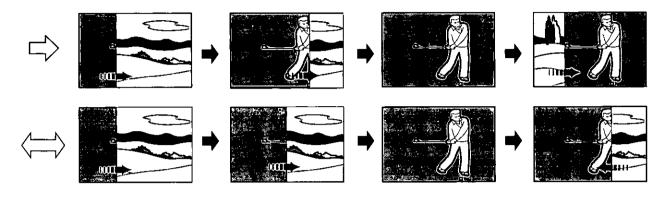


4. Select m / w by using ➡-₩ the Up/Down/Right/Left 0000 00000 Ō 0 • 💽 💽 💽 👀

Note: When you choose a combination of any one of (III) and III, the direction is automatically set to III.

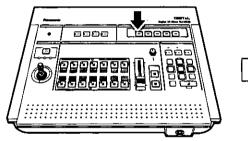
- 5. Press one of the A-bus Selection buttons.
- **6.** Press one of the B-bus Selection buttons.
- 7. Operate the Mix/Wipe control.

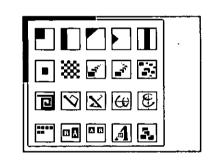




Wipe Edge -

1. Press WIPE button. Wipe patterns are displayed on the preview screen.





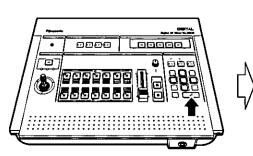
Edge selection is available for the patterns shown inside the dotted line.

Note: When selecting **A** or **m** pattern, the Mode Table shows the following.

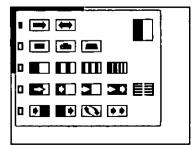


2. Press the J button to display the Mode Table. Notes:

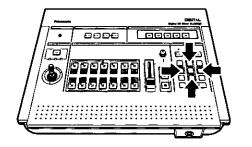
- To set the color for the wipe edge, select mode.
- 2. The color modes framed in blue in the Mode Table can be selected.

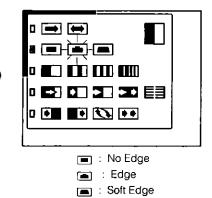


Mode Table



3. Select the desired edge by using the Up/Down/Right/ Left Button.





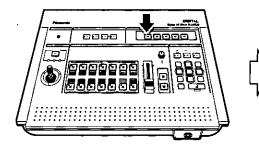
-, -/

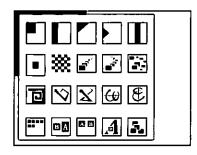
Note: Selection of wipe edge affects the other wipe patterns automatically .

Multiple Wipe -

1. Press WIPE button.

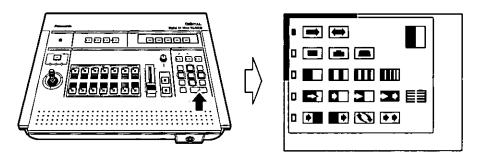
The wipe patterns shown, inside the dotted line are available.



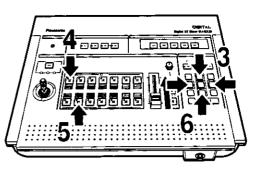


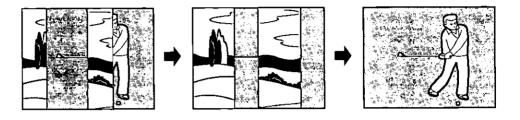
2. Press 🚽 button.

The Mode Table is displayed on the preview monitor.



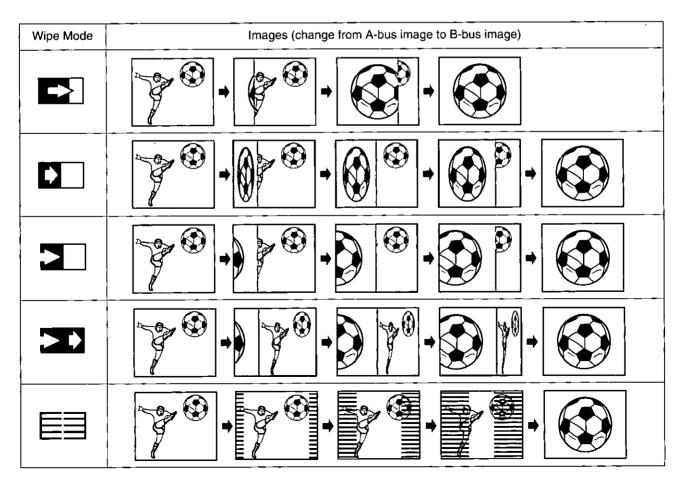
- Note: The modes framed in black in the Mode Table cannot be selected. (The modes framed in blue in the Mode Table can be selected.)
- **3.** Select the desired multi pattern by using the Up/ Down/Right/Left button.
- 4. Press one of the A-bus Selection buttons.
- **5.** Press one of the B-bus Selection buttons.
- 6. Operate the Mix/Wipe Control.

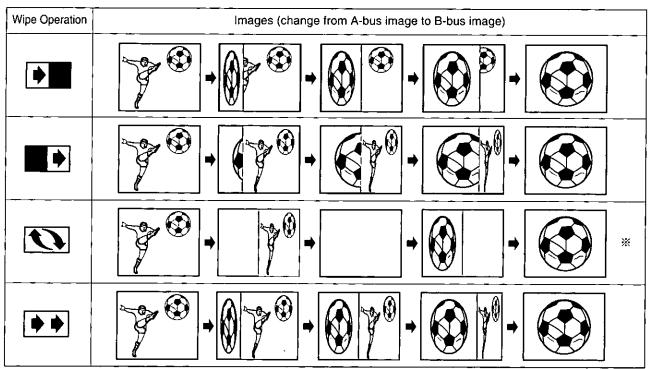




Special Mode

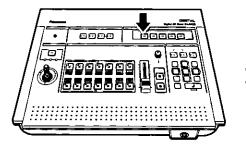
Special Mode Description -





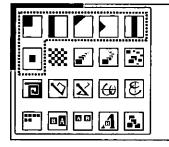
% : Back color should be changed to the desired color. Refer to the Back Color Setting for this selection.

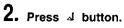
1. Press WIPE button.



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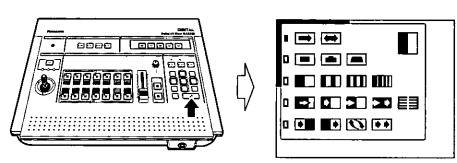
The patterns inside the dotted line have this function.



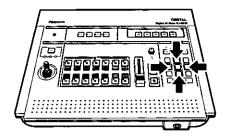


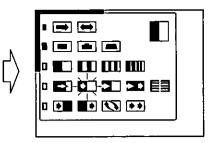
The Mode Table is displayed on the preview screen. **Notes:**

- The modes framed in black in the Mode Table cannot be selected.
- 2. The modes framed in blue in the Mode Table can be selected.

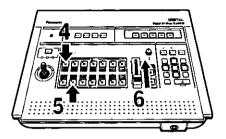


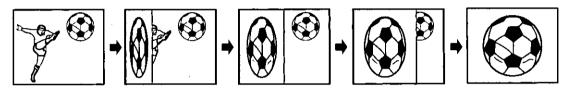
3. Select the desired special mode by using the Up/Down/ Left/Right button.





- **4.** Press one of the A-bus Selection buttons.
- **5.** Press one of the B-bus Selection buttons.
- 6. Operate the Mix/Wipe Control.



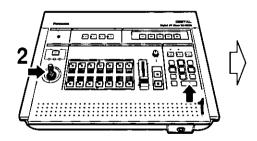


Notes:

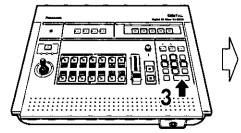
- 1. The modes framed in black in the Mode Table cannot be selected. (The modes framed in blue in the Mode Table can be selected.)
- 2. The Still and Strobo functions are not available in the compressed picture.

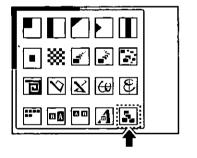
In case of selecting the 🔝 pattern,

- **1.** Select the A pattern and press the J button. The WIPE menu disappears and the cursor is displayed.
- 2. Select the desired position by using the joystick.

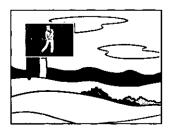


- **3.** Press the \square button to set the position.
- **4.** Press the WIPE button in the OSD section.





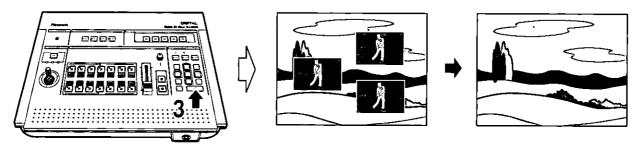




5. Operate the Mix/Wipe Control.

6. To cancel these settings, press the SELECT/UNDO button.

All the settings in this pattern are canceled.



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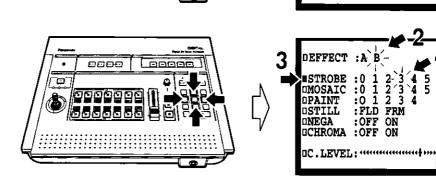
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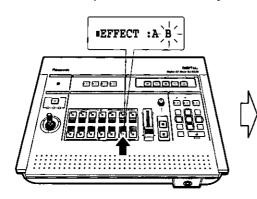
Digital Effect

Strobe Mode Setting

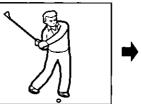
- 1. Press the EFFECT button. The EFFECT menu is displayed on the preview monitor.
- 2. Select the A or B-bus for strobe effect by using the Up/Down/Right/Left button.
- 3. Move the cursor to STROBE by using the Up/Down button.
- 4. Set the strobe level to the desired position by using the Right/Left button.



5. Press the EFFECT Output button of the bus you selected in step 2.



Note: When the special wipe pattern or compression mode of the Basic Wipe Pattern has been selected, the strobo effect is not available .. (Neither is it possible to change settings.)





EFFECT : A B

DSTROBE

DMOSAIC

DPAINT

DSTILL

UCHROMA

DNEGA

:0

:0

:0

:FLD

:OFF

:OFF ON

0C . LEVEL : ******************************

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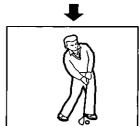
ON

5 5

5

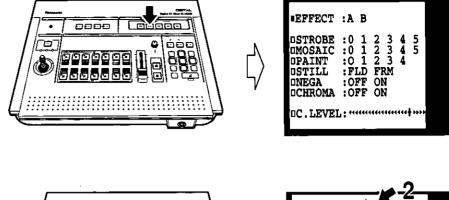
4

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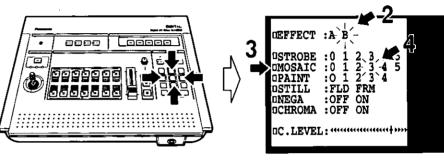


Mosaic Setting

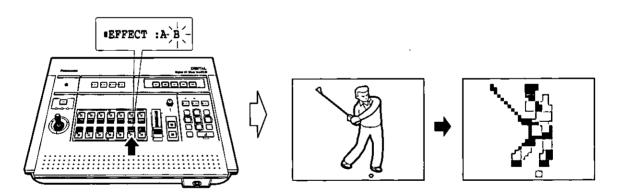
1. Press the EFFECT button. The EFFECT menu is displayed on the preview monitor.



- 2. Select the A or B-bus for mosaic effect.
- **3.** Move the cursor to the MOSAIC position by using the Up/Down button.
- 4. Set the mosaic level to the desired position by using the Right/Left button.

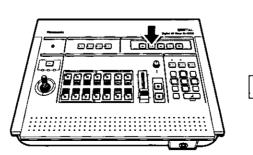


5. Press the EFFECT Output button of the bus you selected in step 2.



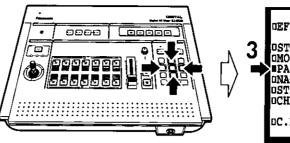
Paint Setting -

1. Press the EFFECT button. The EFFECT menu is displayed on the preview monitor.



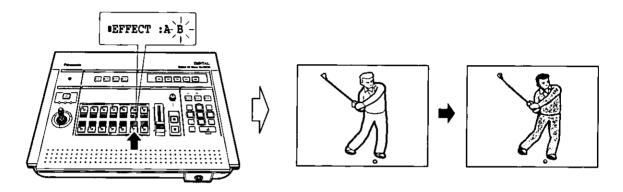
	. 6 . 1	• •		
DSTROBE	:0 1	2 3	4	5
DPAINT	:0 1	23	4	5
OSTILL	FLD			
ONEGA				
DCHROMA	:OFF	ON		

- 2. Select the A or B-bus for paint effect by using the Right/Left button.
- **3.** Move the cursor to the PAINT position by using the Up/Down button.
- 4. Set the paint level to the desired position by using the Right/Left button.



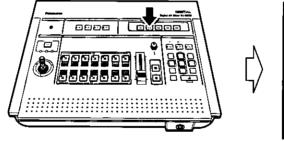


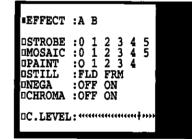
5. Press the EFFECT Output button of the bus you selected in step 2.



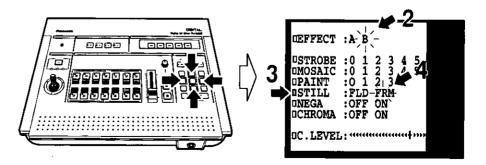
• Still Setting -

1. Press the EFFECT button. The EFFECT menu is displayed on the preview monitor.

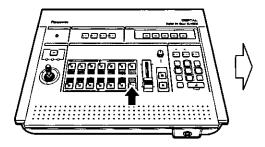


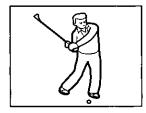


- 2. Select the A or B-bus for still effect.
- **3.** Move the cursor to the STILL position by using the Up/Down button.
- 4. Select the FLD/FRM mode by using the Right/Left button.



5. Press the STILL button of the bus you selected in step 2.







EFFECT :A B

OCHROMA : OFF

OSTROBE

DMOSAIC

OPAINT DSTILL

DNEGA

:0 1 2 3 :0 1 2 3 :0 1 2 3 :0 1 2 3 :FLD FRM

:OFF ON :OFF ON

OC.LEVEL: ***********************

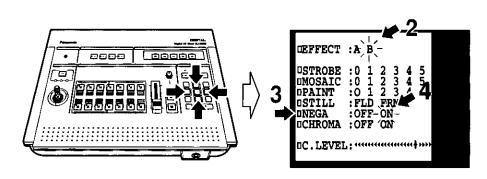
4545

4

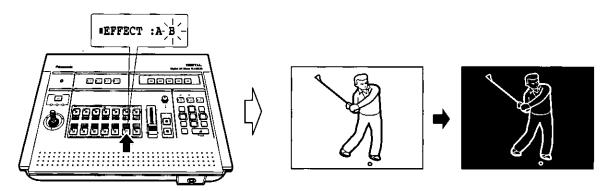
Note: The selection of FLD/FRM should be made while observing the output monitor.

Nega Setting

- **1.** Press the EFFECT button. The EFFECT menu is displayed on the preview monitor.
- 2. Select the A or B-bus for nega effect.
- **3.** Move the cursor to the NEGA position by using the Up/Down button.
- 4. Select the ON position by using the Right/Left button.



5. Press the EFFECT Output button of the bus you selected in step 2.



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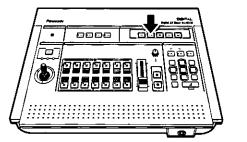
0800

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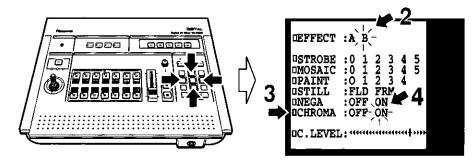
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- Color Correction
- 1. Press the EFFECT button. The EFFECT menu is displayed on the preview monitor.



EFFECT	:A B		
DSTROBE DMOSAIC DPAINT DSTILL DNEGA DCHROMA	:FLD :OFF	FRM ON	45 45 4
OC.LEVEI		••••••	***

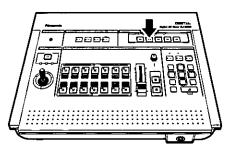
- 2. Select the A or B-bus for chroma effect.
- **3.** Move the cursor to the CHROMA position by using the Up/Down button.
- 4. Select the ON mode by using the Right/Left button.



- 5. Press the EFFECT Output button of the bus you selected in step 2. The COL. CORRECT Indicator lights.
- 6. Correct the color by using the Joystick Control.
- **Note:** The picture is displayed with the preset condition whenever you select CHROMA ON mode.

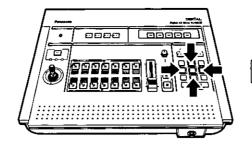
Chroma Level -

1. Press the EFFECT button. The EFFECT menu is displayed on the preview monitor.



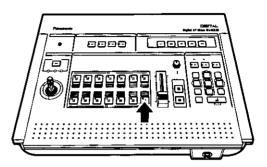
*EFFECT				_
OSTROBE OMOSAIC	:01	23	4	5 5
DPAINT	:0 1	23	4	5
OSTILL	:FLD	FRM		
ONEGA OCHROMA				

- 2. Select the A or B-bus for color level effect.
- **3.** Move the cursor to the C. LEVEL position.
- 4. Set the chroma level to the desired position.



DEFFECT	: A B
D PAINT	:0 1 2 3 4 5 :0 1 2 3 4 5 :0 1 2 3 4 :FLD FRM :OFF ON :OFF ON
OC.LEVE	

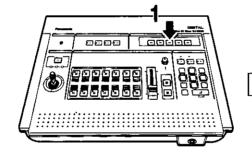
5. Press the EFFECT Output button of the bus you selected in step 2.

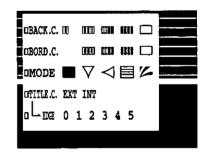


Color Setting

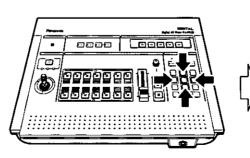
Back Color Setting

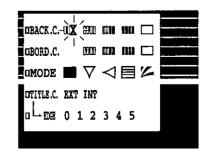
1. Press the COL button. COL. menu is displayed on the preview monitor.



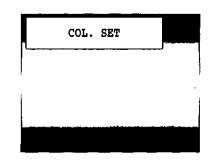


- 2. Move the cursor to the BACK.C. position by using the Up/Down button.
- 3. Set the desired color by using the Left/Right button.





- 5. Press the J button. COL.SET is displayed and the color selection can be made with the joystick.



6. After selecting the desired color, press the J button. This completes the color selection process.

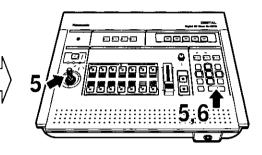
 DBACK.C. 00
 0009
 0010
 0111
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 DBORD.C.
 0009
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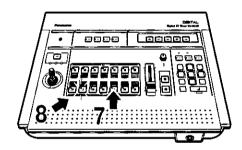
 DMODE
 \Box \bigtriangledown \Box \Box \Box

 OMODE
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 OTITILE.C.
 EXT
 INT
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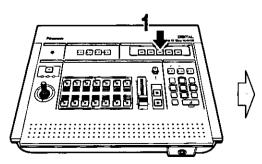
- Press the BACK COL. button of your desired bus.
 The LED on the last selected SOURCE button starts blinking.
- 8. To exit this function, press another SOURCE Button.

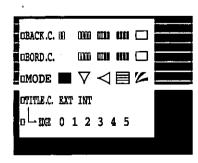


Border Color Setting

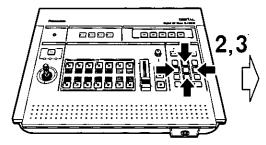
1. Press the COL button.

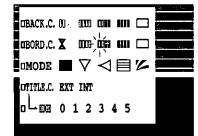
The COL. menu is displayed on the preview monitor.



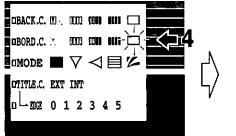


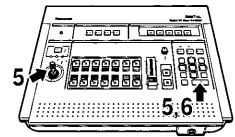
- 2. Move the cursor to the BORD.C. position by using the Up/Down button.
- 3. Set the desired color by using the Left/Right button.





- 4. To select a color other than a present color select the position.
- 5. Press the J button. COL.SET is displayed and the color selection can be made with the joystick.



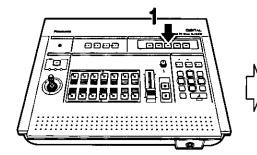


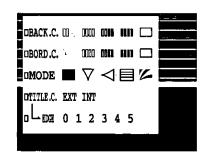
6. After selecting the desired color, press the ⊿ button. This completes the color selection process.

Color Mode Setting

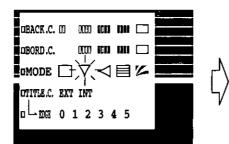
1. Press the COL. button.

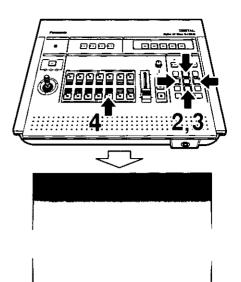
The COL. menu is displayed on the preview monitor.





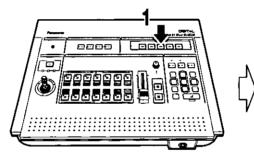
- 2. Move the cursor to the MODE position by using the Up/Down button.
- 3. Select the desired mode by using the Left/Right button.
- 4. Press the desired BACK COL. button.

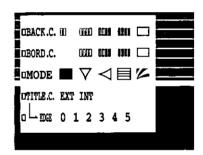




Title Color Setting

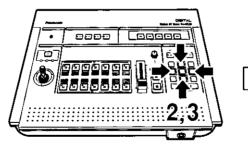
1. Press the COL. button. The COL. menu is displayed on the preview monitor.

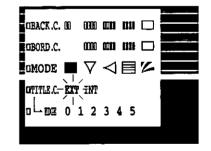




2. Move the cursor to the TITLE.C. position by using the Up/Down button.

3. Select the EXT/INT position by using the Left/Right button.



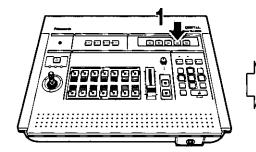


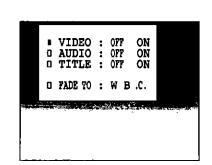
- EXT: When connecting the optional Character Generator WJ-KB30, color setting can be made from external.
 Note: When the optional Character Generator WJ-KB12 is connected, only a white title color is available.
- **INT:** The color of the title is set internally.

- Title Edge Setting
- **1.** Press the COL. button. The COL. menu is displayed DBACK.C. M. JUB OSH HIJ 🔲 0000 on the preview monitor. BORD.C. X IIII IIII 🔲 Ð ę éée 88 000000000 o DTITLE.C. EXT INT 2. Move the cursor to the OBACK.C. 🗵 👝 💷 💷 💷 EDGE position by using the 0000 00000 ٠ Up/Down button. abord.c. X and fail fifth 🗔 Ē 3. Select the desired edge Ì 00000000 width from the 5 steps 50000 OTITLE.C. EXT IN displayed. 3

Fade-out (in) Setting

1. Press the FADE button. The FADE menu is displayed on the preview monitor.

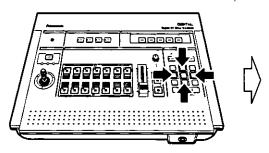


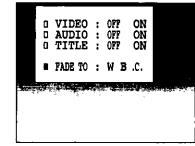


- 2. Move the cursor to the VIDEO, AUDIO and/or TITLE position by using the Up/Down button.
- **3.** Set each item to ON position by using the Left/Right button.
- 4. For fade-out (or in) of the video signal to white,

black or another desired color, move the cursor to the FADE TO position.

- 5. Select the desired color to fade-out(or in) by using the Left/Right position.
 - W: to White color
 - B: to Black color
 - C: to back color selected in COL. menu.

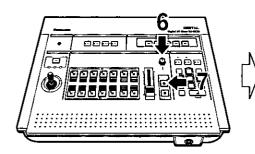




6. Adjust the TIME control.

7. Press the AUTO FADE button.

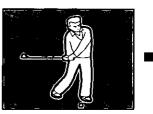
The picture starts fading-out to the selected color.



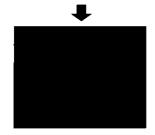
Notes :

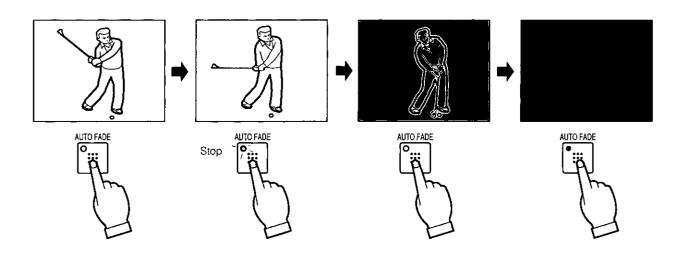
- If you press the AUTO FADE button again before the fade is over, the fade stops. The LED's for the AUTO FADE button start blinking. Press the button again to start the fade again.
- 2. After fade-out is completed, the LED on the AUTO FADE button remains blinking.











8. Press the AUTO FADE button again.

The picture starts fading-in from the selected color.

Note: The title is displayed on the preview monitor while the Title Fade Operation is executed. (No title display in VIDEO ON mode.)

Audio Mix

Audio Follow Setting

- 1. Press the AUDIO button. The AUDIO menu is displayed on the preview menu.
- 2. Move the cursor to FOLLOW by using the Up/ Down button.
- 3. Select ON position by using the Right/Left button. The four audio signals from source 1,2,3 and 4 can be

followed simultaneously.

DFOLLOW	ON OFF
OMASTER	
DAUDIO2 DAUDIO3	ATTENTI ATTENTI
$0 \rightarrow FOLLOW$	ON OFF

Note: Audio Follow is effective as shown below depending on the menu setting.

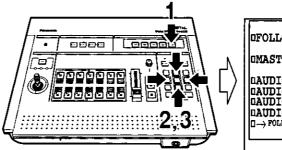
		FOLLOW		
		ON	OFF	
∎AUDIO4	ON	All	Independent	
	OFF	Audio 1, 2 and 3	Independent	

To use Audio Follow in combination with Wipe Mode refer to the next page.

DFOLLOW	ON OFF	
DMASTER		
DAUDIO1 DAUDIO2 DAUDIO3 DAUDIO4 D- FOLLOW	CONCENTRATION OF THE OWNER OWN	
L		

Audio Level Setting -

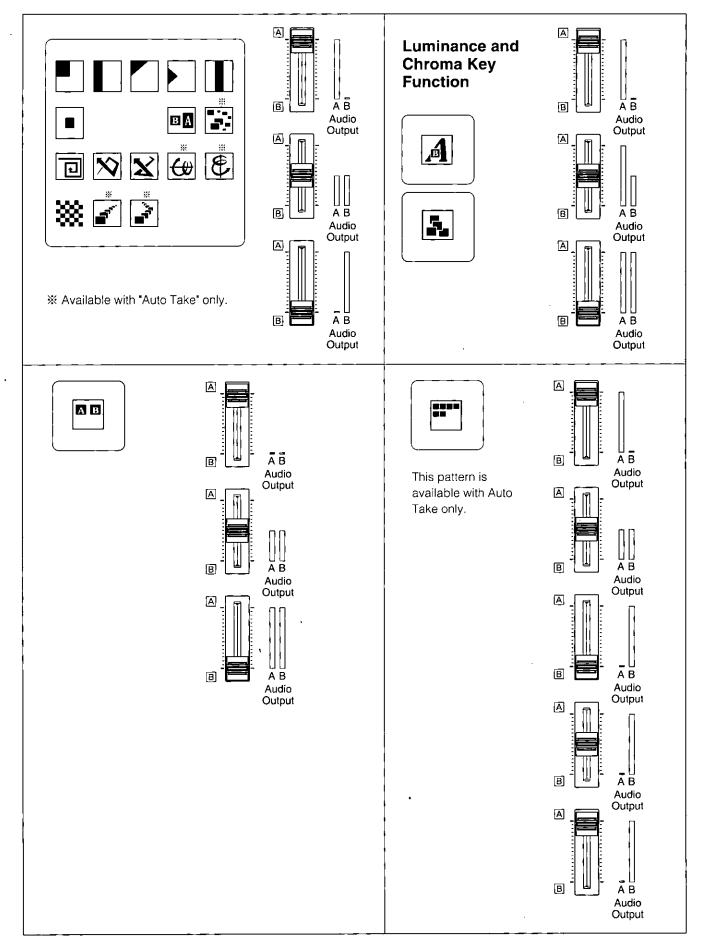
- **1.** Press the AUDIO button. The AUDIO menu is displayed on the preview screen.
- First select MASTER and set the overall output level with ← → key.
- **3.** Next select AUDIO 1 to 4 and set the output level separately for each of these audio sources.



DFOLLOW	ON OFF	
DAUDIO2 DAUDIO3	INCOMPANY AND	

Note: The MASTER volume can be changed with the arrow keys $\leftarrow \rightarrow$ even if the OSD screen is closed.

Audio Follow Effect



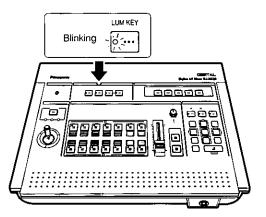
ADVANCED OPERATIONS

Luminance Key Setting -

This function affects the B-bus video source.

1. Press the LUM KEY button.

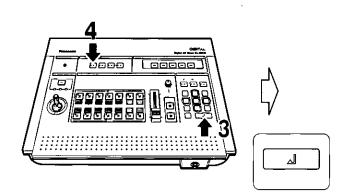
The LED on this button starts blinking.



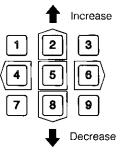
2. Adjust the luminance to the desired level by using the Up/Down button.

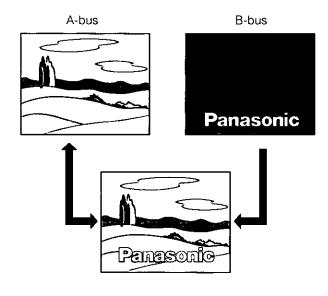
Pressing the Up button increases the level. Pressing the Down button decreases the level. When the Up/Down button is kept pressed, the level is increased/decreased continuously.

- **3.** Press the J button to execute this function. The LED on the LUM KEY Button changes from blinking to steddy Light.
- **4.** To exit this function, press any other button in the TRANSITION SELECT section.



Note: Setting the Luminance Key cancels any condition preset with the chroma key.





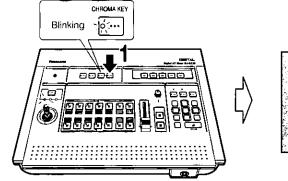
Chroma Key Setting

This function affects the B-bus video source.

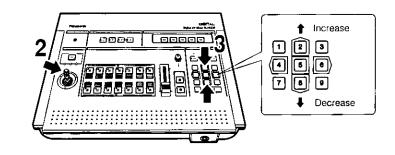
1. Press the SET button.

The LED on the CHROMA KEY starts blinking. The B-bus picture and the cursor are displayed on the preview monitor. The POSI-TION Indicator starts blinking.

- 2. Move the cursor to the desired position for the chroma key function by using the Joystick Control.
- **3.** Press the J button. This completes the chroma key setting process.







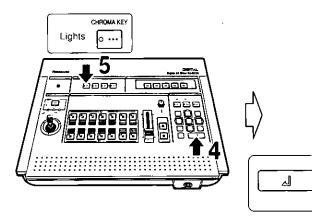
4. Adjust the chroma level as desired by using the Up/Down button.

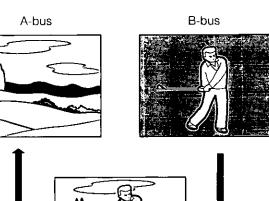
Note:

The chroma key can be set for up to 3 positions. The cursor disappears when 3 positions have been set. The level of the selected positions cannot be adjusted independently.

5. Press the CHROMA KEY button to execute this function.

The LED on the CHROMA KEY button changes on from blinking to steady Light.





Notes :

- 1. Setting the chroma Key cancels any condition preset with the luminance key.
- To cancel the setting, press the SELECT/ UNDO button.

The latest setting is canceled.



When you want to cancel two or three settings, press the SET button and then the UNDO button.

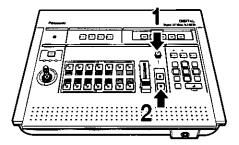
 Keeping the Up/Down button pressed does not change the chroma Level. To change the level, press the Up/Down button repeatedly.

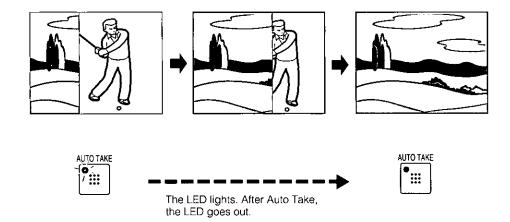
■ Auto Take Setting

1. Set the transition time by adjusting the TIME Control.

Transition time can be adjusted between approximately 0 to 10.2 sec.

2. Press the AUTO TAKE button.



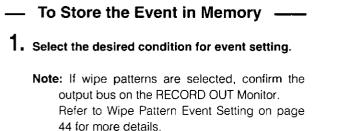


Notes:

- If you press the button before Auto Take is completed, Auto Take stops and the LED starts blinking. If you want to restart it, press the button again.
- 2. To release Auto Take mode, slide the Mix/Wipe Control fully to either the A-bus or B-bus position.

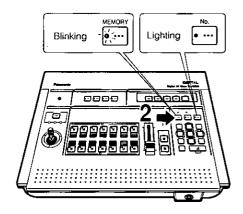
Event Setting

Frequently used patterns and effects (events) can be stored in memory and recalled at any time for reuse.

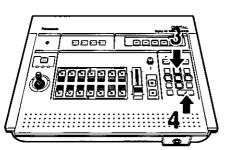


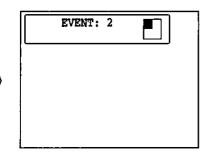
2. Press the MEMORY button.

The LED on the MEMORY starts blinking.



3. Press number from 1 to 7. The selected event number is displayed on the preview monitor.





4. Press the 🚽 button.

The event number disappears from the preview monitor, and the selected event is stored in memory.

Notes:

- There are seven events stored in the memory. When storing an event under a number already assigned to a stored event the event previously stored is overwritten.
- Event setting is not available in the following modes ;
 - Still Mode
 - Wipe Pattern

— To Execute the Event Function .

1. Press the CALL button.

The LEDs on the CALL and No. buttons light up and the lowest stored event number is displayed on the preview monitor.

2. Enter the desired event number.

The LED on the CALL button starts blinking and the event number entered appears on the preview monitor.

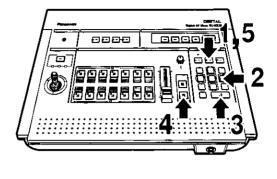
Note: The contents of the event number is not displayed on the preview monitor. Therefore, check the effect before starting to record.

3. Press the 🚽 button.

4. To execute this function, press the AUTO TAKE button.

Note: After pressing the AUTO TAKE button, the next event number is automatically displayed on the preview monitor. Therefore, all you need to do is press the AUTO TAKE button to execute all the stored events in sequence without pressing the CALL and No. buttons. Repeatedly pressing the AUTO TAKE button will cycle the sequential execution of the stored events.

5. To exit this function, press the CALL button.



	EVENT: 2
	J
Note:	Green: Mix key
	Blue : Chroma key
	Yellow: Luminance key
	All patterns: Wipe buttor

• Wipe Pattern Event Setting

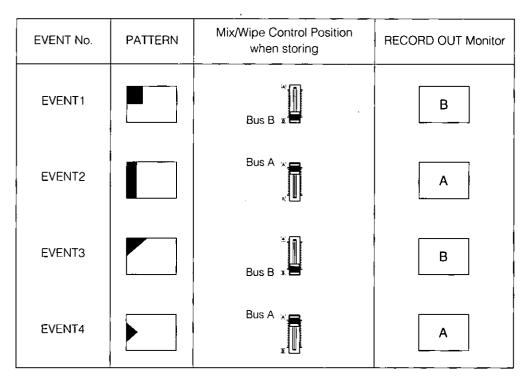
Example 1: When the 📋 pattern(event) is stored in memory, the execution of this event will follow the relationship shown below.

Output BUS on the F	RECORD OUT Monitor	Picture on the RECORD OUT Monitor
Storing	Execution	
В	Α	$\begin{bmatrix} A \end{bmatrix} \Rightarrow \begin{bmatrix} B \\ A \end{bmatrix} \Rightarrow \begin{bmatrix} B \end{bmatrix}$
	В	※ B → B → B
A	Α	$\begin{array}{c} & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & $
	В	$\begin{bmatrix} B \\ \bullet \end{bmatrix} \Rightarrow \begin{bmatrix} A \\ B \end{bmatrix} \Rightarrow \begin{bmatrix} A \end{bmatrix}$

※ The event will not be executed.

Example 2:

To execute all four events in sequence, store them in memory as shown below.



- 1. The output pictures on the A or B bus should be alternately displayed on the monitor after executing the event function.
- 2. It determines that the Mix/Wipe Control position or take position by executing Auto Take function.

In this condition, events 1 to 4 are executed in sequence by keeping the Auto Take button pressed after pressing the CALL button.

—To Clear the Event Memory

1. Press the MEMORY button.

The LED on the MEMORY button starts blinking.

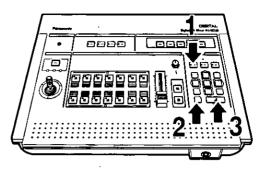
2. Press the SELECT/UNDO button.

"EVENT: CLEAR" is displayed on the preview monitor.

3. Press the 🚽 button.

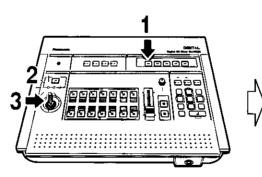
"EVENT: CLEAR" disappears from the preview monitor and all the events memorizd in the Event Memory are cleared.

4. To exit this function, press MEMORY button.

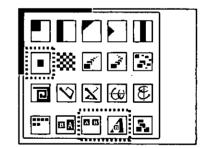


Position Setting

- 1. Press the WIPE button and select the desired wipe pattern.
- 2. The POSITION Indicator lights.
- **3.** Move the wiped picture by using the joystick.

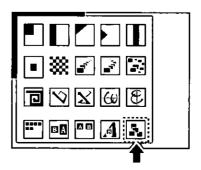


This function is available in the wipe patterns shown inside the dotted line.

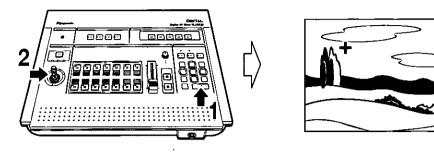


If you select the 🖪 pattern:

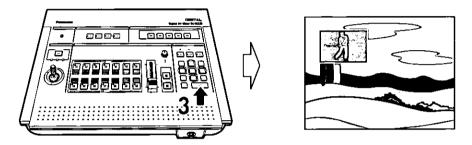
1. Select the **S** pattern and press the **J** button. The WIPE menu disappears and the cursor is displayed.



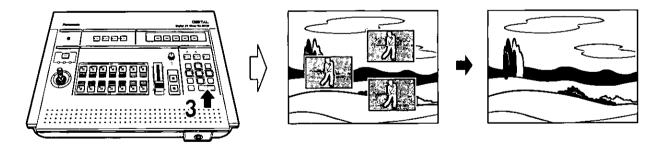
 $\label{eq:2.2} \textbf{2. Select the desired position by using the joystick.}$



3. Press the \varDelta button to set the position.



4. To cancel these settings, press the SELECT/UNDO button. All the settings in this pattern are canceled.



Scene Grabber

This function is available in the four patterns shown below inside the dotted line.

1. Press the WIPE button.

The WIPE menu is displayed on the preview monitor.

- 2. Select the Pattern by using the Up/Down/Right/ Left button and select the Pattern Mode by using the SELECT/UNDO button.
- **3.** Select the SCENE GRABBER position by using the SELECT button. The LED on the SCENE GRABBER Indicator lights.
- 4. Select the desired position by using the joystick.

Note: You can set the initial size of the scene with the Mix/Wipe Control.

BAA

0000

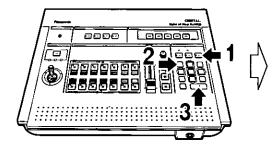
Cécce

ÓÒC

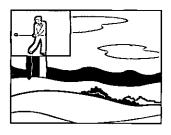
■ No. (Number) Function

If your monitor is not provided with two video input connectors, use this function.

You can work with the preset function (refer to the number in the wipe pattern table on pages 48 and 49.) without the preview screen.



- 1. Press the No. button.
- 2. Press the desired number.
- **3.** Press the J button. The preset function is executed.



Note: When selecting number 195 the video signal of the on-screen display is supplied from the Rec Out Connector. (Prose number 196 to exit from the 195 function)

(Press number 196 to exit from the 195 function.)

Reboot

Turn on the Power while pressing the *d* **button.** This resets the unit to initial mode.

Basic Wipe Pattern/Number Input Table

Wipe	Press	BASIC	Input No,	MULTI 1	MULTI 2	MULTI 3
Patterns	UNDO Button:					
	0 times		(1)			
	1 time		(2)			
	2 times		(3)			
	3 times		(4)			
	0 times		(5)			
	1 time		(6)			
	2 times		(7)			
	3 times		(8)			
	0 times		(9)			
	1 time		(10)			
	2 times		(11)			
	3 times		(12)			
	0 times		(13)			
	1 time		(14)			
	2 times		(15)			
	3 times		(16)			

.

Wipe Patterns	Press UNDO Button:	BASIC	Input No.	MULTI 1	MULTI 2	
	0 times		(21)	(12)		
	1 time		(22)			
	2 times		(23)			
	3 times					
	0 times		(17)			
	1 time		(18)			
	2 times		(19)			
	3 times	•	(20)	*** *** ***		

Special Wipe Patterns

Wipe Patterns	Input No.	Wipe Position Movable	Wipe Patterns	Input No.	Wipe Position Movable	Wipe Patterns	Input No.	Wipe Position Movable
æ	32	0	Ŷ	24	_		26	_
AB	33	0	X	25	_		27	_
ВА	34	_	CD	28	-		30	-
	35	_	Ð	29	_		31	0
Ð	36		**	37	_			

Note: The numerical orders shown above are provided for Number Function.

.

,

Number Input Table

This table shows the input numbers entered with the numeral keys and their corresponding functions and setting screens.

Wipe

For wipe pattern numbers, refer to the wipe pattern tables on pages 48 and 49.

Input Number		Corresponding Function		Corresponding Setting Screen
40	Wipe Direction	: One way	(📄)	
41		: Reverse	(🚺)	
42	Edge	: None	(🔳)	
43		: Border	(🛋)	
44		: Soft	(🔳)	Mode Setting Screen
45	Multi Wipe	: Basic	(🔳)	
46		: Multi 1	(💵)	
47		: Multi 2	(🖽)	
48		: Multi 3	(🎹)	
49	Wipe Mode	: Normal	(💽)	
50	-	: Compression	(🗖 🗌)	
51		: Slide	(🗖)	
52	-	: Pair	(🎞)	
53	-	: Slide Compression	(🗐)	
54	Wipe Operation	: Over	(🕨)	
55	1	: Remove	(🔳)	
56]	: Flip	(💽)	
57]	: Push	(🚺)	
0	Video Mix			

* Numbers and characters in parentheses are shown on the setting screen.

Special Edge

Input Number		Corresponding Fu	unction	Corresponding Setting Screen
61	Edge	: None	(🔳)	Special Edge Setting Screen
62]	: Border	(🔳)	
63	i	: Shadow	(🔳)	

* Numbers and characters in parentheses are shown on the setting screen.

Fade

Input Number		Corresponding Function		Corresponding Setting Screen
130	Video	: On	(ON)	Fode Catting Sproop
, 131	-	: Off	(OFF)	Fade Setting Screen
132	Audio	: On	(ON)	VIDEO : OFF ON
133	1	: Off	(OFF)	□ AUDIO : 0FF ON □ TITLE : 0FF ON
134	Title	: On	(ON)	D FADE TO : W B .C.
135	1	: Off	(OFF)	
136	Fade Color	: White	(W)	
137	1	: Black	(B)	
138	1	: Setting Color of Back Color	(.C.)	J

*Numbers and characters in parentheses are shown on the setting screen.

Input Number		Corresponding Fu	Inction	Corresponding Setting Screen
70	A-bus strobo	: Off	(0)	
71	-	: Step 1	(1)	
72		: Step 2	(2)	
73		: Step 3	(3)	
74		: Step 4	(4)	
75		: Step 5	(5)	Effect Setting Screen
76	A-bus Mosaic	: Off	(0)	
77		: Step 1	(1)	•EFFECT :A B
78		: Step 2	(2)	USTROBE :0 1 2 3 4 5
79		: Step 3	(3)	OSTROBE :0 1 2 3 4 5 OMOSAIC :0 1 2 3 4 5 DPAINT :0 1 2 3 4 5
80		: Step 4	(4)	UNAGA : UFF ON
81		: Step 5	(5)	DSTILL : FIE FRA DCHROMA : 07F ON
82	A-bus Paint	: Off	(0)	0C.LEVEL: *********************
83	-	: Step 1	(1)	
84		: Step 2	(2)	
85	-	: Step 3	(3)	
86	-	: Step 4	(4)	
87	A-bus Nega	: Off	(OFF)	-
88		: On	(ON)	
. 89	A-bus Still	: Field	(FLD)	
90	1	: Frame	(FRM)	
91	A-bus Color Co	rrect : Off	(OFF)	a-
92	-	: On	(ON)	
93	A-bus Chroma I	_evel		
94	B-bus strobo	: Off	(0)	-
95	-	: Step 1	(1)	
96	-	: Step 2	(2)	
97	-	: Step 3	(3)	
98	-	: Step 4	(4)	
99		: Step 5	(5)	
100	B-bus Mosaic	: Off	(0)	-
101		: Step 1	(1)	
102	-1	: Step 2	(2)	
103	-	: Step 3	(3)	
104	-1	: Step 4	(4)	
105	-	: Step 5	(5)	
106	B-bus Paint	: Off	(0)	4
107	-1	: Step 1	(1)	
108	-1	: Step 2	(2)	
109	-1	: Step 3	(3)	
110	-	: Step 4	(4)	Ĩ.
111	B-bus Nega	: Off	(OFF)	-
112		: On	(OPP)	
113	B-bus Still	: Field	(ON) (FLD)	4
114		: Frame		
115	B-bus Color Co		(FRM) (OFF)	-
116		: On		
117	B-bus Chroma I		(<u>ON)</u>	-

•EFFECT	:A	B				
OSTROBE MOSAIC DPAINT DNAGA DSTILL DCHROMA	:0 :0 :0 :0 :0 FI :0 F	Ē	2 2 2 0 1 FR 0	À	444	555
OC.LEVEI		444		444		

* Numbers and characters in parentheses are shown on the setting screen.

The shaded numbers repuire level adjustments to be made with numeral key [4](left) and [6](right).

• Audio

Input Number	Corresponding Functi	on	Corresponding Setting Screen
120	Audio Follow : On	(ON)	Audio Setting Screen
121	: Off	(OFF)	
122	Audio Level : Audio 1	(AUDIO 1)	DFOLLOW ON OFF DMASTER HUHHHHHHHHHH
123	: Audio 2	(AUDIO 2)	
124	: Audio 3	(AUDIO 3)	
125	: Audio 4	(AUDIO 4)	
126	Audio 4/Audio Follow : On	(ON)	
127	: Off	(OFF)	
128	Audio Level : MASTER		

* Numbers and characters in parentheses are shown on the setting screen. The shaded numbers _____ require level adjustments to be made with numeral key [4](left) and [6](right).

Color

•

Input Number		Corresponding Function		Corresponding Setting Screen
140	Back Color	: White		
141		: Yellow		
142		: Cyan		Color Setting Screen
143		: Green		Color Setting Screen
144		: Magenta	•	oback.C. Ola und und 🖃
145	-	: Red		DBORD.C. X III III III
146		: Blue	ŀ	dmode $\blacksquare \bigtriangledown \lhd \blacksquare \blacksquare$
147		: Black		DTIFLE.C. KXT INT
148		: Setting Color		
150	Edge Color	: White		
151	1	: Yellow	l	
152		: Cyan	[
153		: Green		
154		: Magenta		
155		: Red		
156	-	: Blue		
157	1	: Black		
158		: Setting Color		
160	Mode	: Normal	(🔳)	
161		: Pattern 1	(7)	
162		: Pattern 2	(⊲)	
163		: Pattern 3	(目)	
164		: Pattern 4	(😕)	
165	Title Color	: INT	(INT)	
166	1	: EXT	(EXT)	
167	Edge	: 0	(0)	
168	1	: 1	(1)	
169		: 2	(2)	
170	1	: 3	(3)	
171	1	: 4	(4)	
172	1	: 5	(5)	
174	Setting of Bac	k Color	(□)	
175	Setting of Edg		(□)	

*Numbers and characters in parentheses are shown on the setting screen.

RS-422 CONTROL

If the unit is connected to an editing machine, enter input No. 422. Then the OSD screen shown at left appears.

- **REMOTE:** If OFF is selected, the mixer will not respond to commands from the editing machine.
- **PARITY:** Set PARITY according to the editing machine connected.
- **TYPE:** Set TYPE according to the editing machine connected.
 - (1) Panasonic (AG-A850), GVG-100 Format;
 - (2) Panasonic (AG-A800); (3) SONY (EVE-910);
 - (4) Undefined; (5) Undefined

REMOTE	:	ON	OFF
PARITY	:	ODD	EVEN
TYPE	:	12	345
S.MATT	:	ON	OFF
H.FADE	:	ON	OFF

Special Mode Setting

S. MATT:

In this mode only, a crosspoint change command from the editing machine will not affect the MATTE (BACK COL) setting. This setting can be released by pressing a key other than the MATTE key.

H. FADE:

In this mode, the fade color settings made on the mixer will be valid. (Fade color setting on the editing machine is disabled.)

The following restrictions apply to the editing machine in controlling the mixer by serial communication.

- If black is selected at the crosspoint, the back color selected at the mixer will be forcibly set to black. (If a different color is selected at the crosspoint, the original color setting at the mixer will return.)
- In case of selecting some special wipe patterns, transition time settings may be subject to restriction.

No.	MIN value	Frame error
30	82	8
26, 27	50	8
28, 29	64	1
35	44	8
	30 26, 27 28, 29	30 82 26, 27 50 28, 29 64

MIN: Even if transition time is set lower, it will be set at the specified value.

Frame error: A transition may end sooner than the set transition time by up to the specified value.

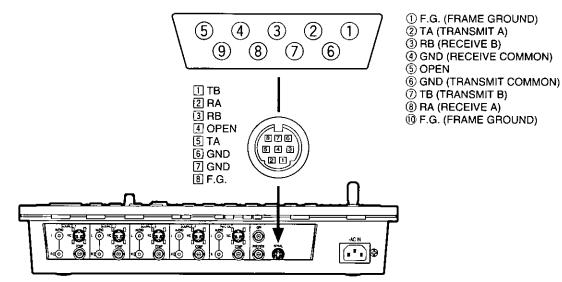
Frame accuracy of ± 0 is not guaranteed for other transitions.

RS-422 TABLE OF WIPE PATTERN NUMBERS

Refer to the following table when entering wipe numbers from the editing machine.

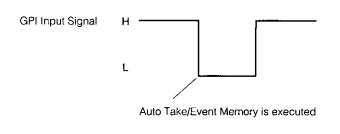
	BAS	SIC					MULTI	MODE												_				
WIPE	PATTI	ERNS		MUL	TI 1			MUI	TI 2		BL	ND		SLI	DE			CO	MP		SL+C	OMP	PA	λIR
NO.	NC	iR.	NC	R.	PA	١R	NC	DR.	PA	IR	NC	DR.	1											
	NOR.	REV.	NOR.	REV.	NOR.	REV.	NOR.	REV.	NOR.	REV.	NOR.	REV.	NOR.	REV.	FLIP	PUSH	NOR.	REV.	FLIP	PUSH	NOR.	REV.	NOR.	REV.
1	001	172	094	195			118				141		038	218	046		058	226	069					
2 🔲	002	173	095	196	•		119				142		039	219	047		059	227	070					
3 🗖	003	174	096	197			120				143		040	220	048		060	228	071		ļ			
4	004	175	097	198			121			~	144		041	221	049	054	061	229	072		0.04	0.07	000	~ ~ ~
5	005	176	098	199	164	245	122		168	249	145		042	222	050	054	062	230	073	080	084	237	088 089	241 242
6	006	177	100	200 201	165	246	123		169	250	146 147		043	223	051	055 056	063 064	231 232	074	081	085	238 239	089	242
7	007 008	178 179	101 102	201			124				148		044	224	052	056	064	232	075	083	087	239		
9 🗖	008	180	102	202			125			1	140		045	225	055	0.07	005	200		000	007	240		
10	010	181	103	203			127				150													
	011	182	105	205			128				151		1											
12	012	183	106	206			129				152												090	243
13	013	184	107	207	166	247	130		170	251	153												091	244
14	014	185	108	208	167	248	131		171	252	154		1											
15 🔳	015	186	109	209			132				155		1							[
16 🔼	016	187	110	210			133				156]								
17 💽	017	188	111	211			134				157						066	234	077	1				
18 💽	018	189	112	212			135				158													
19 💽	019	190	113	213			136		ĺ		159					1				[
20 💽	020	191	114	214			137				160													
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SERIAL Connector Information



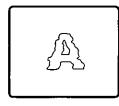
GPI Connector Information

For the external equipment connected to this unit to execute the Auto Take or Event Memory function, its .timing should coincide with the Falling Edge of the GPI signal.

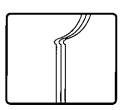


Important Notes on Video Input Signal

- If the input video signal does not meet the NTSC Color standard, it can cause a disturbance in synchronization.
- 2. If the signal-to-noise ratio (S/N) of the input signal is too low, it may result in a low quality picture.
- A jittery source input video signal from a VTR, for example, can cause a disturbance in synchronization or color.
- Tracking noise on the TV monitor can cause a disturbance in synchronization. In this case, adjust the tracking control of the input VTR.



5. Flag waving (top of picture curls) may appears due to the AFC time constant when input signals are supplied from a certain type of VTR.



6. Any video signal containing VITC is available at the Recording Output.

Glossary

Luminance :

Chrominance (Chroma) : Composite Video Signal : S-video Signal : The black and white component of a video signal The color component of a video signal Standard video signal The signal at the S-VHS connector

SPECIFICATIONS

Source Input : Video Input : Y/C input: Audio Input : Character Input : Recording Output : Video Output : Y/C Output :	x4 (SOURCE 1/4) 1.0 V[p-p]/75 Ω NTSC composite signal, BNC connector Y signal : 1.0 V[p-p]/75 Ω , C signal : 0.286 V[p-p]/75 Ω Mini Din 4-pin connector -6 dBs 20 k Ω pin jack (L/R) x1 (TITLE) : 10-pin connector for optional Character Generator WJ-KB30/WJ-KB50 x1 (REC OUT) 1.0 V[p-p]/75 Ω NTSC composite signal, BNC connector Y signal : 1.0 V[p-p]/75 Ω , C signal : 0.286 V[p-p]/75 Ω Mini Din 4-pin connector
Audio Output :	$-6 \text{ dBV/1 } k\Omega$, pin jacks (L/R)
Preview Output	
Video Output :	1.0 V[p-p]/75Ω NTSC composite signal, BNC connector
Back Color :	White, Yellow, Cyan, Green, Magenta, Red, Blue,Black and Useable
Wipe Patterns :	298 patterns
Video Gain :	Unity
S/N (typical) :	Video : 50 dB (composite), 50 dB (Y/C)
	Audio : 60 dB
Power Source :	120V AC, 60 Hz
Power Consumption :	Approx. 15W
Ambient Operating Temperature :	0°C - 40°C (32°F - 104°F)
Ambient Operating Humidity :	Less than 90%
Dimensions	420 (W) x 300 (H) x 88 (D) mm
Weight	2.5 kg

Weight and dimensions indicated above are approximate. Specifications are subject to change without notice.

Standard Accessory

Power Cord	1	pc.
RS-422 Connecting Cable	1	pc.

Optional Accessory

12

Character Generator WJ-KB30/WJ-KB50

250

Broadcast & Television Systems Company

Division of Matsushita Electric Corporation of America

Executive Office: One Panasonic Way 3F-5, Secaucus, NJ 07094

Regional Offices: EASTERN ZONE: 43 Hartz Way, Secaucus, NJ 07094 (201) 348-7620 CENTRAL ZONE: 1707 North Bandall Road, Elgin, IL 60123 (708) 468-5200

CENTRAL ZONE: 1707 North Randall Road, Elgin, IL 60123 (708) 468-5200 SOUTHERN ZONE: Dallas Region: 4500 Amon Carter Blvd, Fort Worth, TX 76155 (817) 685-1117 Atlanta Region: 1225 Northbrook Parkway, Suite 1-160, Suwanee, GA 30174 Panazip 11 (404) 338-6841, Iax (404) 338-6741 Law Enforcement Video Products: 1225 Northbrook Parkway, Suite 1-160, Suwanee, GA 30174, Panazip 11 (404) 338-6844, Iax (404) 338-6721 WESTERN ZONE: Seattle Region: 1200 Westlake Ave., North, Suite 508, Seattle, WA 98109 (206) 285-8883 Los Angeles Region: 6550 Katella Ave. 17A-1, Cypress, CA 90630 (714) 373-7271 Government Marketing Department: 52 West Gude Drive, Rockville, MD 20850 (301) 738-3840 DANASCONIC CANADA INC

PANASONIC CANADA INC.

5770 Ambler Drive, Mississauga, Ontario, L4W 2T3 Canada (905) 624-5010 PANASONIC SALES COMPANY

DIVISION OF MATSUSHITA ELECTRIC OF PUERTO RICO, INC.

San Gabriel Industrial Park, 65th Infantry Ave. KM. 9.5 Carolina, Puerto Rico 00630 (809) 750-4300