

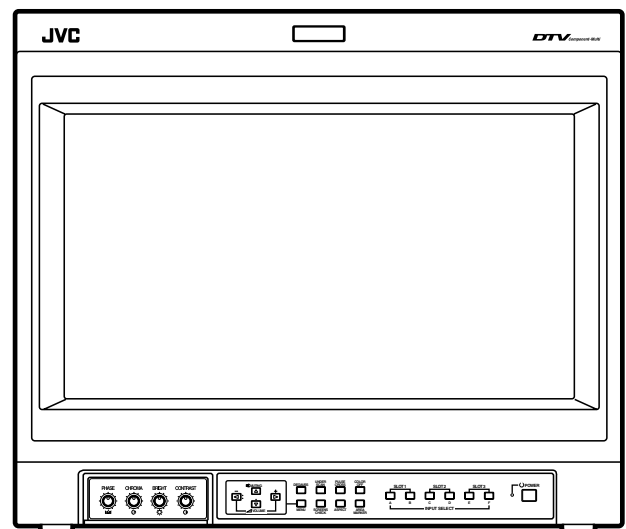


MULTI-FORMAT MONITOR

DT-V1910CG DT-V1710CG

INSTRUCTIONS

The illustration shows the DT-V1910CG with provided wide mask attached.



(DT-V1910CG shown)

Thank you for purchasing this JVC Multi-Format Monitor. Before using it, read and follow all instructions carefully to take full advantage of the monitor's capabilities.

SAFETY PRECAUTIONS

In order to prevent any fatal accidents caused by misoperation or mishandling the monitor, be fully aware of all the following precautions.

WARNINGS

To prevent fire or shock hazard, do not expose this monitor to rain or moisture. Dangerous high voltages are present inside the unit. Do not remove the back cover of the cabinet. When servicing the monitor, consult qualified service personnel. Never try to service it yourself.

**WARNING : THIS APPARATUS
MUST BE EARTHED.**

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.

■ PRECAUTIONS

- Use only the power source specified on the unit. (220 V AC, 50 Hz/60 Hz)
- Keep flammable material, water, and metal objects away from the unit – especially the interior of the unit.
- This unit incorporates high voltage circuitry. For your own safety and that of your equipment, do not attempt to modify or disassemble this monitor. There are no user-serviceable parts inside.
- Video or audio signals cannot be input to this monitor without optional input cards.
- In these instructions, all explanations (except where noted) refer to the DT-V1910CG and DT-V1710CG with input cards installed.

■ HANDLING

- Avoid shocks or vibrations. These may damage the unit and cause it to malfunction.
- Do not block the ventilation slots.
- Do not expose this unit to high temperatures. Extended exposure to direct sunlight or a heater could deform the cabinet or cause the performance of internal components to deteriorate.
- Do not place the unit near appliances generating strong electric or magnetic fields. These can generate picture noise and instability.
- Keep the monitor clean by wiping the cabinet and CRT screen with a piece of soft cloth. Do not apply thinner or benzine. These chemicals can damage the finish and erase printed letters. When the unit is excessively dirty, use a diluted neutral cleanser, then wipe away the cleanser with a dry cloth.

SCREEN BURN

- It is not recommended to keep a certain still image displayed on screen for a long time as well as displaying extremely bright images on screen. This may cause a burning (sticking) phenomenon on the screen of cathode-ray tube. This problem does not occur as far as displaying normal video playback motion images.

DEGAUSS

- Do not use a magnet eraser to degauss the monitor's cathode ray tube from the outside. Doing so may distort its aperture grill and cause a malfunction.

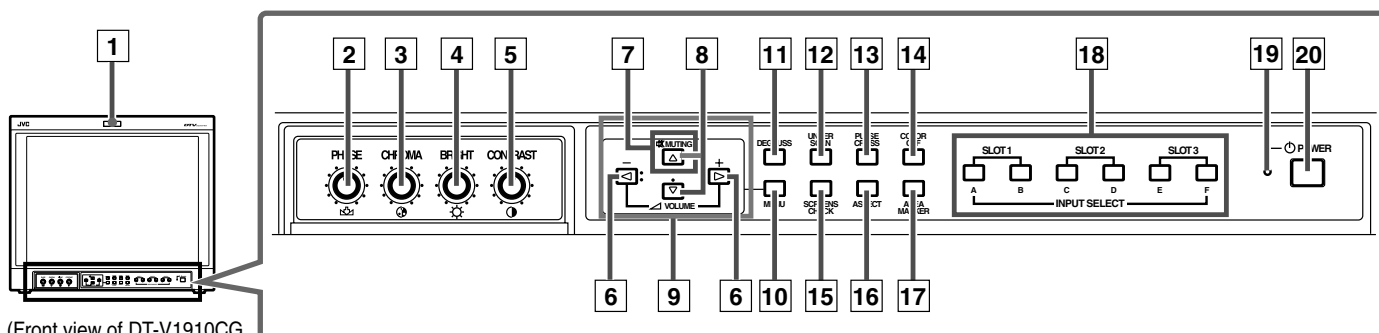
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CONTROLS AND FEATURES

FRONT VIEW

<Front Panel>



(Front view of DT-V1910CG shown)

1 Tally lamp

Lights when the tally control signal is ON.

- Set the MAKE/TRIGGER terminal's tally control in the REMOTE (external control) terminal setup menu.

The lamp colour can be set to red or green.

- To set the colour, use TALLY SELECT in the "FUNCTION SETTING" setup menu or MAKE/TRIGGER in the REMOTE (external control) terminal setup menu.

➔ For details, refer to Page 19 and 23.

2 PHASE adjustment knob

Adjusts picture hue.

- Turn the knob to the left to make the picture redder, and turn it to the right to make the picture greener.

3 CHROMA adjustment knob

Adjusts picture colour density.

- Turn the knob to the left to make the picture colour lighter, and turn it to the right to make the picture colour deeper.

4 BRIGHT adjustment knob

Adjusts picture brightness.

- Turn the knob to the left to make the picture darker, and turn it to the right to make the picture brighter.

5 CONTRAST adjustment knob

Adjusts picture contrast.

- Turn the knob to the left to make the picture contrast lower, and turn it to the right to make the picture contrast higher.

6 VOLUME buttons

Adjusts the speaker volume.

- Pressing this button displays the VOLUME level bar on the screen. Pressing the button again allows you to adjust speaker volume.

7 MUTING button

Pressing this button mutes the output sound.

- To cancel "MUTING ON" (no sound), press MUTING button again, or press the VOLUME "-" or "+" buttons.

NOTE:

When a menu or setting item (such as MAIN MENU, SETUP MENU, sub-menu, or VOLUME bar) is displayed on the screen, this button functions as a control button for the menu screen. In this case, it will not mute the sound when pressed.

8 EMBEDDED AUDIO channel switch button

Press this button while the VOLUME bar is displayed on the screen to change the input sound channel.

- When the Δ button is pressed, the next highest channel is selected.
- When the ∇ button is pressed, the next lowest channel is selected.

NOTES:

Switchable channels correspond with the group selected in the "E.AUDIO GROUP" of the "FUNCTION SETTING" setup menu.

* Valid when an input card compliant with EMBEDDED AUDIO is installed.

9 Menu select buttons

Selects menu screen items or set-up menu screen.

10 MENU button

Displays, adjusts or closes a menu screen.

11 DEGAUSS button/lamp

Press the DEGAUSS button. The button lights and degaussing is performed automatically.

- When the degaussing is completed, the light goes off.

12 UNDER SCAN button/lamp

Press the UNDER SCAN button. The button lights and the screen is reduced (under-scan) and the whole screen is displayed.

- When the UNDER SCAN button is pressed while lit, the light goes off and the screen returns to normal size (over-scan).
- Use this function to check the whole screen.

NOTE:

This function is invalid with the RGB-input screen.

13 PULSE CROSS button/lamp

When you press the PULSE CROSS button, the button lights and the picture moves horizontally and vertically. The synchronized signal is displayed and the screen automatically brightens to make it easier to confirm the synchronized sections.

- When the PULSE CROSS button is pressed while lit, the light goes off and the normal screen is restored.

NOTE:

This function is invalid with the RGB-input screen.

14 COLOR OFF button/lamp

When you press the COLOR OFF button, the button lights and the screen becomes mono-chrome. Only the brightness signal is displayed.

- When the COLOR OFF button is pressed while lit, the light goes off and the normal screen is restored.
- Use this function to confirm the noise in the brightness signal or to confirm the white balance.

NOTE:

This function is invalid with the RGB-input screen.

15 SCREENS CHECK button/lamp

Press the SCREENS CHECK button. The button lights and the screen changes in the following order:

Normal screen → Red screen → Green screen → Blue screen

- Press the SCREENS CHECK button when the blue screen is displayed. The light goes off and the normal screen is restored.
- Use this function to confirm or adjust CHROMA or PHASE.

NOTE:

This function is invalid with the RGB-input screen.

16 ASPECT button/lamp

When the ASPECT button is pressed while the screen ratio is 4:3, the button lights and the screen ratio changes to 16:9.

- When the ASPECT button is pressed while lit, the light goes off and the normal screen is restored.

NOTE:

This function is invalid with the RGB-input screen.

17 AREA MARKER button/lamp

This button turns the AREA MARKER function ON/OFF.

- AREA MARKER function includes MARKER, ZOOM, and SAFETY AREA functions. Refer to "AREA MARKER" on page 16 for more information.
- When AREA MARKER is set to ON, the button lights.

NOTES:

- Functions do not operate when they are set to OFF in the "AREA MARKER".
- Initial setting of each function in the "AREA MARKER" Menu is OFF. Before you can use the AREA MARKER function, you must change the "AREA MARKER" Menu settings first. Refer to "AREA MARKER" on page 16 for details.
- This button does not operate when RGB is input.
- The ZOOM function does not operate in the under-scan mode.

18 INPUT SELECT button

Selects an input signal from one of the input cards installed in the monitor's card slots (SLOT1 – SLOT3).

Select SLOT1: press A or B

Select SLOT2: press C or D

Select SLOT3: press E or F

➔ Refer to the input card instructions on pages 7 and 8 for details on the correspondence between the input terminals and the INPUT SELECT buttons.

- The INPUT SELECT button corresponding to the current input signal lights.
- When the input is switched, the new input status is displayed on the screen for about 3 seconds.
- To display the current input status again, press the illuminated INPUT SELECT.

■ About status display

Displays information on the current input selection and the monitor settings.

INPUT C Selected input
VIDEO Input card status (*1)
NTSC Signal format (*2)
HIGH Setting of "COLOR TEMP." (*3)
EXT SYNC External synchronization (*4)

*1 Notes

- "NO SLOT" is displayed when there is no input card inserted in the slot corresponding to the selected input.
- "COMP." or "RGB" is displayed when a component or RGB signal (input from COMPONENT/RGB INPUT CARD) is selected.
- "VIDEO(Y/C)" is displayed when S-video is input from VIDEO 2(INPUT SELECT B/D/F).

*2 Notes

- "NO SYNC" is displayed when no video signal is input.
- When "SYNC SELECT" is set as "EXT" (external), "NO SYNC" is displayed even when a video signal is input and a synchronized signal is not input. Refer to "SYNC SELECT" on page 19 for more information.

*3 Note

Refer to "COLOR TEMP." on page 20 for details on "COLOR TEMP" settings.

*4 Note

When "SYNC SELECT" is set to "INT." (internal synchronization), no message is displayed. Refer to "SYNC SELECT" on page 19 for more information.

CONTROLS AND FEATURES (cont'd)

19 Power lamp

- Unlit : The main power is OFF.
- Orange : The main power is ON, but the monitor's power is OFF (in stand-by mode).
- Green : The main power is ON, and the monitor's power is ON (in normal operation mode).

20 POWER switch

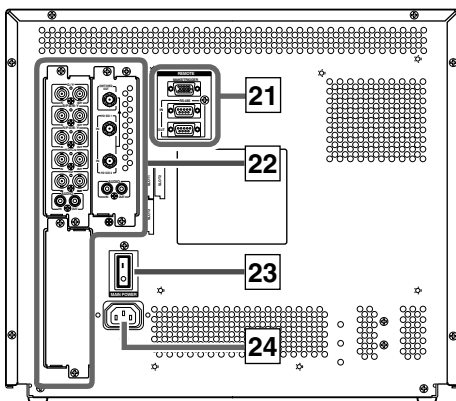
Press the power switch to turn the monitor's power ON or OFF when the main power is ON.

NOTE:

When RUSH DELAY TIME is set to SLOW in the set-up menu, it takes approx. 3.2 seconds for the power to actually turn ON after the power switch is pressed.

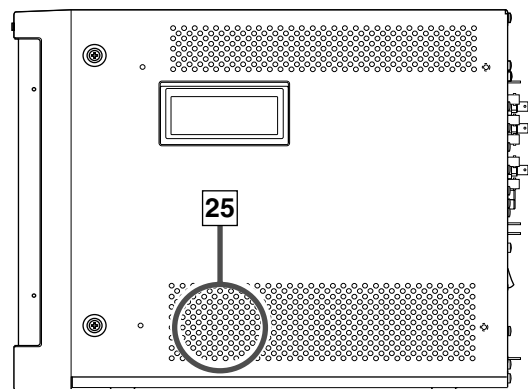
REAR/SIDE VIEW

<Rear Panel>



(Rear view of DT-V1910CG shown)

<Side Panel>



(Side view of DT-V1910CG shown)

21 REMOTE (external control) terminals

Terminals for controlling the monitor from an external unit.

MAKE/TRIGGER terminal:

Enables the monitor to be controlled by closing the circuit (point of contact) connected to the terminal.

RS-485 IN terminal:

Enables the monitor to be controlled from a personal computer via a serial cable.

RS-485 OUT terminal:

Enables a cascade control connection. Multiple monitors can be controlled by the device connected to the IN terminal.

22 Input card slots (SLOT 1 – SLOT 3)

Optional input cards can be installed in these slots. Input cards are not provided when you purchase the monitor.

NOTE:

It is not possible to input video or audio signals to the monitor when no input cards are installed.

23 Main power switch

Press the switch to turn the main power ON or OFF. When the main power is ON, the power lamp on the front panel lights in yellow and the monitor enters the stand-by mode.

- I : ON ○ : OFF

24 AC inlet

Power input connector. Connect the provided AC power cord to an AC outlet (220 V AC, 50 Hz/60 Hz).

* Attach the provided Power Cord Holder to prevent accidental disconnection of the AC power cord.

➔ Refer to page 12 for details.

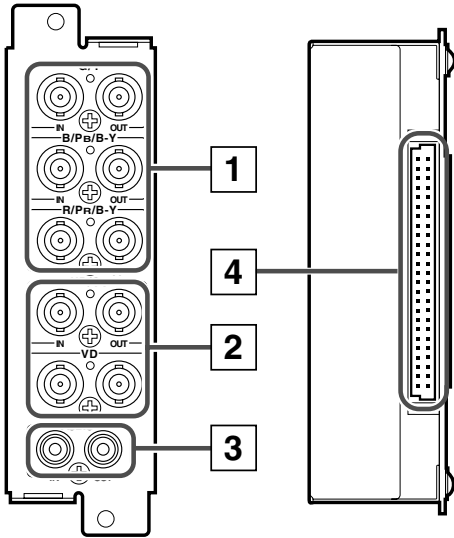
25 Built-in speaker (monaural)

Outputs the selected INPUT audio signal.

CONTROLS AND FEATURES

(INPUT CARD: OPTIONAL)

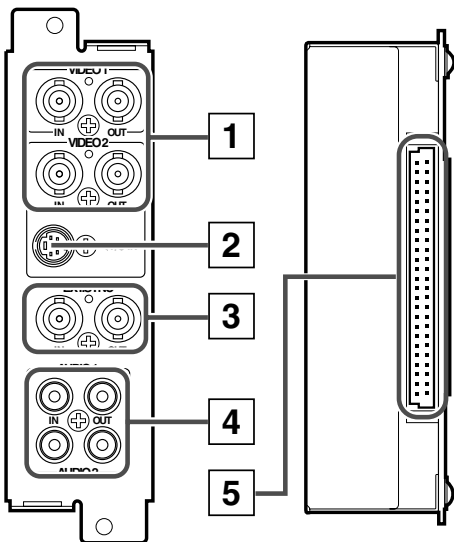
COMPONENT/RGB INPUT CARD (IF-C01COMG)



- 1 Component/RGB signal input/output terminals**
Input (IN) and output (OUT) terminals for component (colour difference) or RGB signals.
Select component signal: INPUT SELECT A (SLOT1)/C (SLOT2)/E (SLOT3)
Select RGB signal : INPUT SELECT B (SLOT1)/D (SLOT2)/F (SLOT3)
* The IN and OUT terminals are bridge-connected (auto termination).
- 2 Synchronized signal input/output terminals**
Input (IN) and output (OUT) terminals for the vertical, horizontal or complex synchronized signals.
• To use these terminals, set "SYNC SELECT" to "EXT".
➔ Refer to "SYNC SELECT" on page 19 for more information.
- 3 Audio input/output terminals**
Input (IN) and output (OUT) terminals for the analogue audio signals.
• The IN and OUT terminals are bridge-connected.
- 4 Connection terminal**
Attach to the connection terminal of your Multi-Format Monitor.

Compatible signal formats:
480/60i, 576/50i, 576/50p, 480/60p,
720/60p, 1035/60i, 1080/50i, 1080/60i,
1080/24psF

VIDEO INPUT CARD (IF-C01PNG)



- 1 Composite signal input/output terminals (VIDEO 1, VIDEO 2)**
Input (IN) and output (OUT) terminals for the composite video signals of the NTSC, PAL, and black/white (50 Hz/60 Hz).
➔ NTSC and PAL are switched in the "COLOR SYSTEM". Refer to "COLOR SYSTEM" on page 19.
Select VIDEO 1: press INPUT SELECT A (SLOT1)/C (SLOT2)/E (SLOT3) buttons.
Select VIDEO 2: press INPUT SELECT B (SLOT1)/D (SLOT2)/F (SLOT3) buttons.
* The IN and OUT terminals are bridge-connected (auto termination).
- 2 S-video signal input terminal (only for VIDEO 2)**
Input terminal for the S-video signal.
• When an S-video signal is input to this terminal and a video signal is input to VIDEO 2, the S-video signal has priority over the video signal.
- 3 Synchronized signal input/output terminals (for both VIDEO 1 and VIDEO 2)**
Input (IN) and output (OUT) terminals for the complex synchronized signals.
➔ To use these terminals, set "SYNC SELECT" to "EXT". Refer to "SYNC SELECT" on page 19 for more information.

NOTES:

- When an external synchronized signal is input, external synchronization is prioritized for both VIDEO 1 and VIDEO 2.
- External synchronization does not function when a video signal (except black burst signal) is included in the complex synchronized signal.

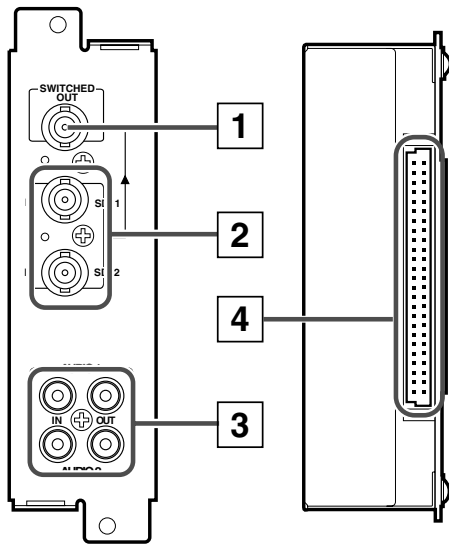
Compatible signal formats:
NTSC (3.58 MHz), PAL (4.43 MHz),
black-and-white (50 Hz/60 Hz)

- 4 Audio signal input/output terminals (for both VIDEO 1 and VIDEO 2)**
Input (IN) and output (OUT) terminals for analogue audio signals corresponding to VIDEO 1 and VIDEO 2.
• The IN and OUT terminals are bridge-connected.
- 5 Connection terminal**
Attach to the connection terminal of your Multi-Format Monitor.

CONTROLS AND FEATURES

(INPUT CARD: OPTIONAL) (cont'd)

SDI INPUT CARD (IF-C01SDG)



Compatible signal formats:
480/60i, 576/50i

1 SWITCHED OUT terminal

Output (OUT) terminal for the re-clocked signal. The input signal from SDI 1 or SDI 2 (selected with the INPUT SELECT buttons) is re-clocked and output from this terminal.

NOTES:

- Even when the input signal is switched from the SDI Input Card, the SWITCHED OUT terminal still outputs the SDI 1 or SDI 2 re-clocked signal (whichever you selected last).
- No signal is output from the SWITCHED OUT terminal when the monitor is turned off or in the stand-by mode.

2 D1 SDI signal input terminal (SDI 1, SDI 2)

Accepts an SMPTE259M compliant D1 SDI signal (component serial digital signal).

Select SDI 1 input: press INPUT SELECT A (SLOT1)/C (SLOT2)/E (SLOT3) buttons.

Select SDI 2 input: press INPUT SELECT B (SLOT1)/D (SLOT2)/F (SLOT3) buttons.

NOTE:

Not compliant with EMBEDDED AUDIO.

3 Audio signal input/output terminals (for both SDI 1 and SDI 2)

Input (IN) and output (OUT) terminals for the analogue audio signals.

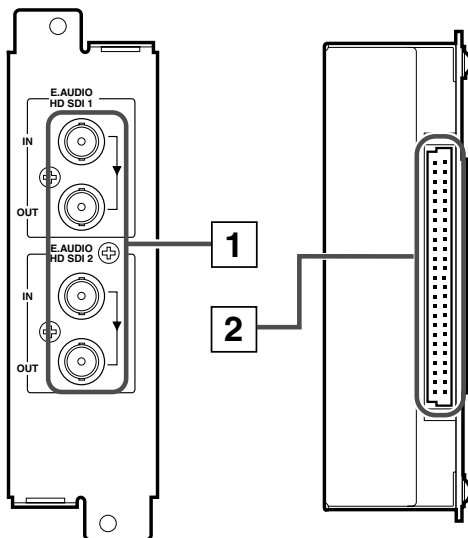
- The IN and OUT terminals are bridge-connected.

4 Connection terminal

Attach to the connection terminal of your Multi-Format Monitor.

HD SDI INPUT CARD (IF-C12HSDG)

Compliant with EMBEDDED AUDIO



Compatible signal formats:
720/60p, 1080/50i, 1080/60i, 1035/60i,
1080/24psF, EMBEDDED AUDIO

1 HD SDI signal input/output terminals (HD SDI 1, HD SDI 2)

Input (IN) and output (OUT) terminals for the HD SDI signal (HD component serial digital signal)

This card is also compatible with EMBEDDED AUDIO signals with a 48 kHz sampling frequency and channel range of 1 to 8 channels.

- ➔ The EMBEDDED AUDIO output channel is controlled from this monitor.

Refer to "EMBEDDED AUDIO channel switch button" on page 4 for more information.

Select HD SDI 1 input press INPUT SELECT A (SLOT1)/C (SLOT2)/E (SLOT3) buttons.

Select HD SDI 2 input : press INPUT SELECT B (SLOT1)/D (SLOT2)/F (SLOT3) buttons.

OUT terminal

The re-clocked HD SDI 1 and/or HD SDI 2 input signal is output from the HD SDI 1 OUT and/or HD SDI 2 OUT terminal.

NOTE:

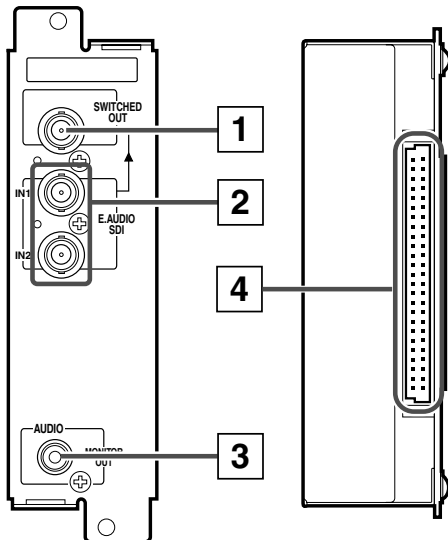
- Signals cannot be output from the OUT terminal when the monitor's power is OFF or in the stand-by mode.

2 Connection terminal

Attach to the connection terminal of your Multi-Format Monitor.

SDI INPUT CARD (IF-C21SDG/IF-C51SDG)

Compliant with EMBEDDED AUDIO and AUTO INPUT (the SDI input card IF-C51SDG is equipped with an AUDIO LEVEL METER function)



Compatible signal formats:
480/60i, 576/50i, EMBEDDED AUDIO

1 SWITCHED OUT terminal

Output (OUT) terminal for the re-locked signal.

➔ The currently selected input signal is output from this terminal.

NOTES:

- When the input signal is switched from the SDI input card, the SWITCHED OUT terminal still outputs the input signal which is selected last from among the inputs on this input card.
- No signal is output from the SWITCHED OUT terminal when the monitor is turned off or in the stand-by mode.

2 D1 SDI and EMBEDDED AUDIO signal input terminal

Output terminal for the D1 SDI signal (D1 component serial digital signal) in compliance with SMPTE259M.

This card is also compatible with the EMBEDDED AUDIO signals with a 48 kHz sampling frequency and channel range of 1 to 8 channels.

➔ The EMBEDDED AUDIO channel is controlled from this monitor.

Refer to "EMBEDDED AUDIO channel switch button" on page 4.

Select IN 1 input: press INPUT SELECT A (SLOT1)/C (SLOT2)/E (SLOT3) buttons.

Select IN 2 input: press INPUT SELECT B (SLOT1)/D (SLOT2)/F (SLOT3) buttons.

3 Audio output terminal

Output terminal for EMBEDDED AUDIO signals that are decoded into analogue signals.

➔ This terminal outputs the same input and same channel as the audio monitored with the speakers.

NOTES:

- When the input from other input card is being monitored, the input audio signal selected last from among the inputs on this card and the audio channel which is selected at that time are output.
- No signal is output from the audio output terminal when the monitor is turned off or in the stand-by mode.

4 Connection terminal

Attach to the connection terminal in the slot for your Multi-Format Monitor.

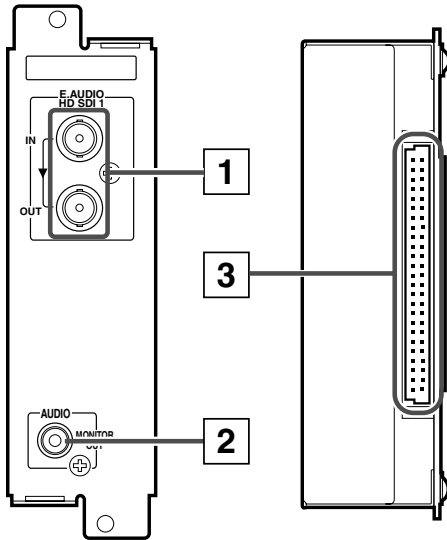
NOTES:

- Do not touch the dip switches near the connection terminal.

- Refer to "AUTO INPUT" on page 19 for the AUTO INPUT function.
- Refer to "STATUS DISPLAY" on page 22 for the EMBEDDED AUDIO LEVEL METER function. (IF-C51SD only)

■ HD SDI INPUT CARD (IF-C21HSDG/IF-C51HSDG)

Compliant with EMBEDDED AUDIO and AUTO INPUT (the HD AD SDI input card IF-C51HSDG is equipped with the AUDIO LEVEL METER function)



■ Compatible signal formats:

720/60p, 720/50p, 1080/60i, 1035/60i,
1080/24psF, EMBEDDED AUDIO

1 HD SDI signal input/output terminals (HD SDI1)

Input (IN) and output (OUT) terminals for the HD SDI signal (HD component serial digital signal).

This card is also compatible with the EMBEDDED AUDIO signals with a 48 kHz sampling frequency and channel range of 1 to 8 channels.

➔ The EMBEDDED AUDIO channel is controlled from this monitor.

Refer to "EMBEDDED AUDIO channel switch button" on page 4.

Select HD SD1 input: press INPUT SELECT A (SLOT1)/C (SLOT2)/E (SLOT 3) buttons.

OUT terminal: The relocked input signal is output from the HD SDI 1 OUT.

NOTE:

- Signals cannot be output from the OUT terminal when the monitor's power is OFF or in the stand-by mode.

2 Audio output terminal

Output terminal for EMBEDDED AUDIO signals which are decoded into analogue signals.

➔ This terminal outputs the same input and same channel as the audio monitored with the speakers.

3 Connection terminal

Attach to the connection terminal in the slot of your Multi-Format Monitor.

NOTE:

- Do not touch the dip switches near the connection terminal.

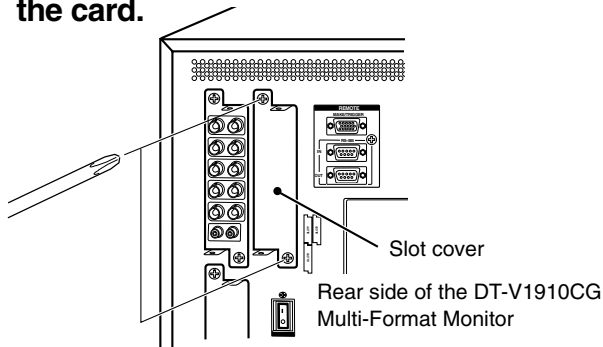
- Refer to "AUTO INPUT" on page 19 for the AUTO INPUT function.
- Refer to "STATUS DISPLAY" on page 22 for the EMBEDDED AUDIO LEVEL METER function. (IF-C51HSDG only)

PREPARATION

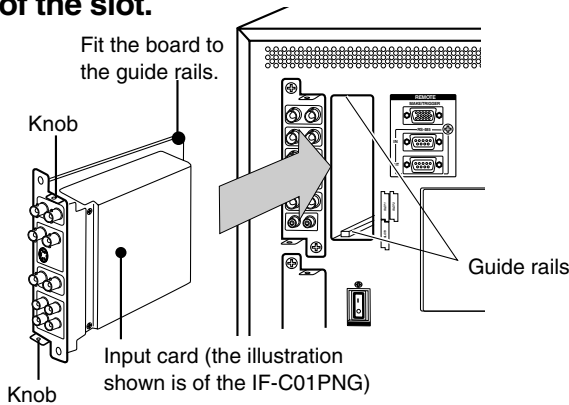
INSTALLING THE INPUT CARD

Optional input cards are necessary to use the functions of this monitor. Before mounting the monitor or connecting other equipment to the monitor, be sure to install the input cards.

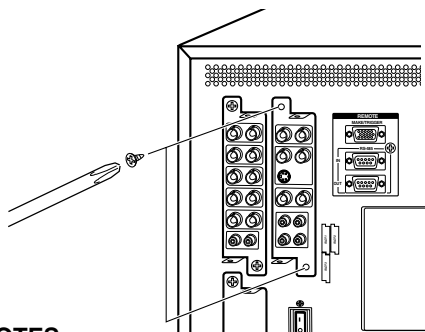
1. Turn off the Multi-Format Monitor's main power and unplug the power cable from the AC outlet.
2. Unscrew the screws and remove the slot cover from the slot (on the rear side of the monitor) in which you are going to install the card.



3. Insert the Input Card's board (green-coloured) into the slot, fitting the board into the guide rails on the top and bottom of the slot.



4. Push the Input Card in so that its front panel touches the monitor's rear panel.
5. Secure the Input Card by replacing the screws removed in Procedure 2.



NOTES:

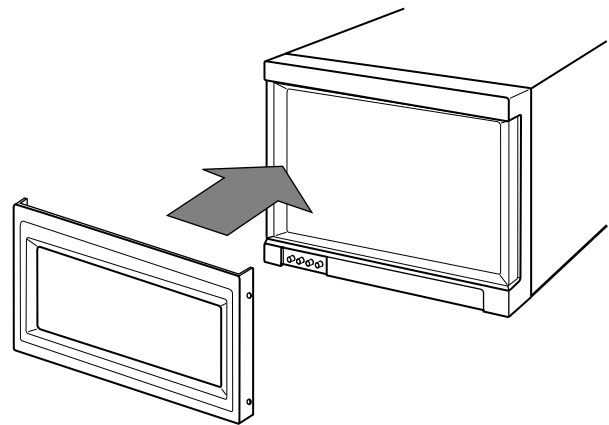
- Do not touch the terminal connected to the monitor or board pattern.
- Do not remove slot covers from the monitor's slots if they are not in use.

ATTACHING THE WIDE MASK

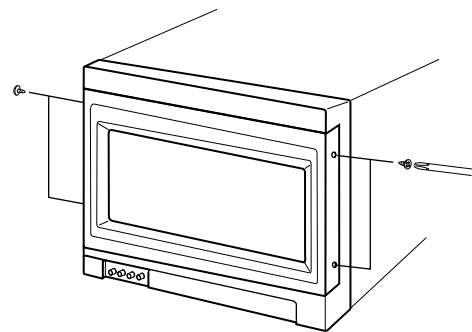
A wide mask is provided with the monitor. This changes the viewable screen area to the 16:9 aspect ratio.

- The wide mask cannot be attached to the monitor after the monitor is mounted in a rack. Mount the wide mask before installing the monitor in a rack.

1. Prepare the provided wide mask and 4 screws (for attaching).
2. Attach the wide mask to the monitor.



3. Secure the wide mask with the screws (fix 2 screws each to both right and left side).



- When detaching the wide mask, follow this procedure in reverse.

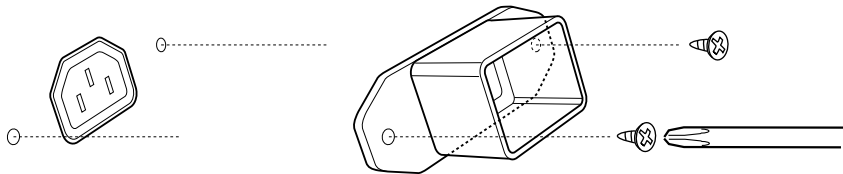
Caution:
Use only the provided screws.

PREPARATION (cont'd)

ATTACHING THE POWER CORD HOLDER

- The provided Power Cord Holder prevents accidental disconnection of the AC power cord from the AC inlet.
- The Power Cord Holder consists of two parts; a case and cover.

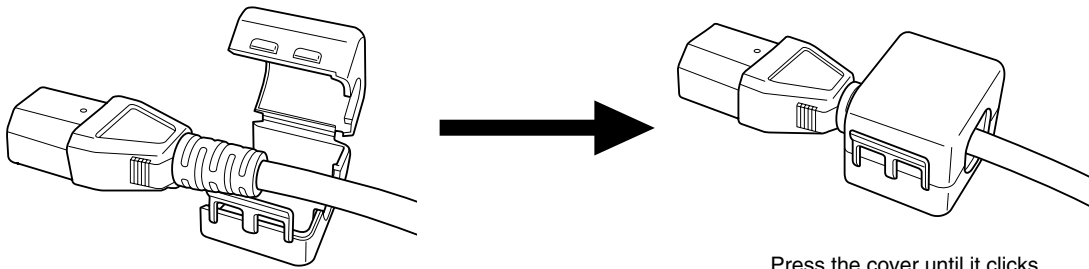
1. Attach the Power Cord Holder case to the AC inlet on the back of the monitor with 2 screws (provided).



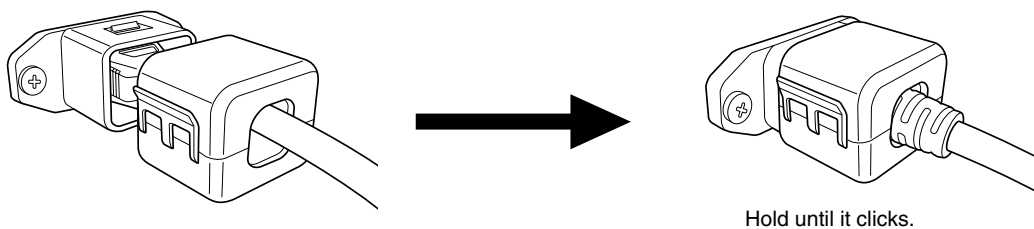
Caution:

Use only the provided screws.

2. Attach the Power Cord Holder cover to the AC power cord.



3. Connect the AC power cord to the AC inlet, and join the Power Cord Holder cover with the case.

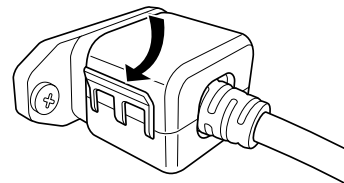


Caution:

- A different plug shape will result in the cover being attached to a different position.
- Check to make sure the plug doesn't pull out after the cover is attached.

Note:

To disconnect the power cord, click the tab to open the cover.



BASIC MENU OPERATIONS

(MAIN MENU, SETUP MENU)

ABOUT MENU SCREENS

This monitor features a MAIN MENU (main menu screen) and a SETUP MENU (setup menu screen). The MAIN MENU contains the functions normally used, and the SETUP MENU contains the settings required for initial setup.

“MAIN MENU”

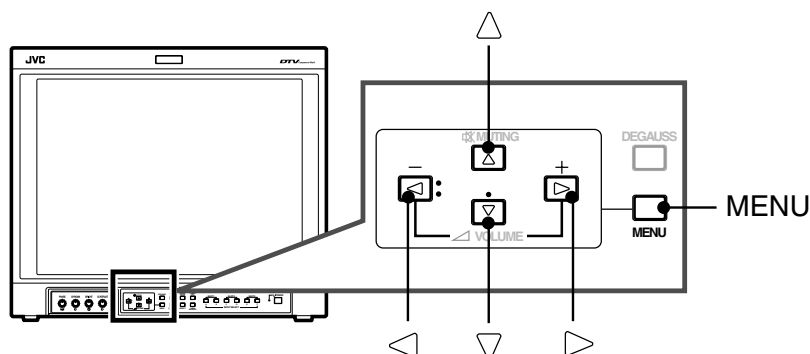
Items	Functions	Displays
1 APERTURE CONTROL	Compensates the frequency characteristics of the input video signal.	*1
2 SLOT CONDITION	Displays the status of the input cards installed in each of the input card slots.	
3 sub menu POSITION	Selects the display position of the sub menu superimposed on the screen.	
4 AREA MARKER	Controls ON/OFF and other settings of the MARKER, SAFETY MARKER, and ZOOM functions included in the AREA MARKER function.	*2
5 COLOR MATRIX	Selects or adjusts the picture colour matrix.	*1

About “Displays” *1 : Not displayed when an RGB signal is input.
 *2 : Displayed only when the screen ratio is 16:9. Not displayed when an RGB signal is input.
 When some items are not displayed depending on the input signals, subsequent items will move up.
 Position of the menu varies depending on the type of signal.

“SETUP MENU”

Items	Functions
1 FUNCTION SETTING	Selects the control systems for the COLOR SYSTEM, synchronized signal, RUSH DELAY TIME, tally lamp colours, and MAKE/TRIGGER terminal. * Checks the amount of time that the monitor has been used. * Sets the AUTO INPUT function ON/OFF. (When an input card compliant with AUTO INPUT is installed.) * Selects the audio channel group for the EMBEDDED AUDIO. (When an input card compliant with EMBEDDED AUDIO is installed.)
2 PICTURE SUB ADJ.	Controls the approximate adjustment of the video control level when the video adjustment knob is adjusted to the centre. * Can also be used to switch the NTSC set-up level, and change the component signal's input level settings.
3 COLOR TEMP./BAL.	Sets or adjusts the colour temperature or white balance.
4 SIZE/POSI. ADJ.	Adjusts the size or position of the picture.
5 DISTORTION ADJ.	Compensates the picture distortion.
6 STATUS DISPLAY	Sets the status display ON/OFF. * Switches the display on and off. Also selects the type of display. (When an input card compliant with AUDIO LEVEL METER is installed.) * Switches the AUDIO PLL setting. (When SDI input card compliant with EMBEDDED AUDIO is installed.)
7 CONTROL LOCK	Sets the control lock preventing the monitor from misuse.
8 all reset	Sets all items in SETUP MENU to factory-preset values.

BUTTONS FOR MENU OPERATIONS



BASIC MENU OPERATIONS

(MAIN MENU, SETUP MENU) (cont'd)

DISPLAYING THE MENU SCREENS

- To display MAIN MENU
Press the MENU button on the front panel.
- To display SETUP MENU
Press the ◀ button while pressing the ▽ button on the front panel.

NOTES:

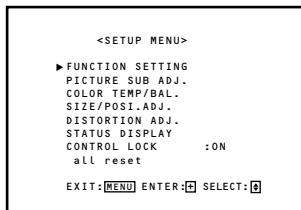
- To exit the MENU, press the MENU button several times.
- The MENU automatically exits about 30 seconds after the last Menu operation.
- To go back the previous MENU, press MENU.

MENU OPERATION PROCEDURE

Example: Adjusting the “BRIGHT” value to “+10”.

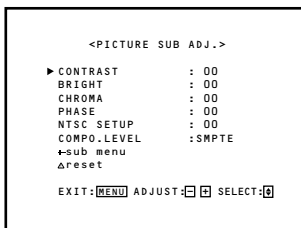
1. Press the ◀ button while ▽ button is pressed.

“SETUP MENU” is displayed on the screen.



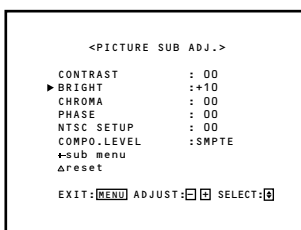
2. Select “PICTURE SUB ADJ.” by pressing the ▽ button, then press the ▶ button.

“PICTURE SUB ADJ.” menu is displayed on the screen.



3. Select “BRIGHT” by pressing the ▽ button .
4. Press the ◀ and/or ▶ buttons as many times as required to obtain the brightness desired.

Example: Setting brightness to “+10”.



5. Delete the “SETUP MENU” by pressing the MENU button several times.

About “+ sub menu”

Only displays selected items. (sub-menu display) Allows you to adjust and set items while looking at the actual screen.

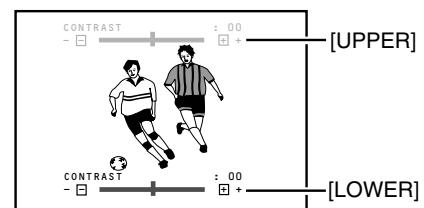
NOTE:

- This function is available only when “+ sub menu” is displayed in the MENU.

Example: Setting an item in the “PICTURE SUB ADJ.” with the sub-menu.

1. Press the ◀ button while ▽ button is pressed.
“SETUP MENU” is displayed on the screen.
2. Select “PICTURE SUB ADJ.” by pressing the ▽ button, then press the ▶ button.
3. Select “+ sub menu” by pressing the ▽ button several times, then press the ▶ button.
The adjustment bar is displayed at the bottom or top of the screen.
4. Select the desired setup item by pressing the △ and ▽ buttons (several times).
5. Press the ◀ and/or ▶ buttons as many times as required to obtain the desired setting.

- To delete the sub-menu display:
Press the MENU button on the front panel.
 - The previous MENU display is restored.
- To change the position of the sub-menu display
 1. Display the “MAIN MENU” by pressing the MENU button.
 2. Select “sub menu POSITION” by pressing the ▽ button several times.
 3. Set “UPPER” or “LOWER” by pressing the ◀ and ▶ buttons.



About “reset”

Restores all MENU settings (currently displayed) to factory-preset values.

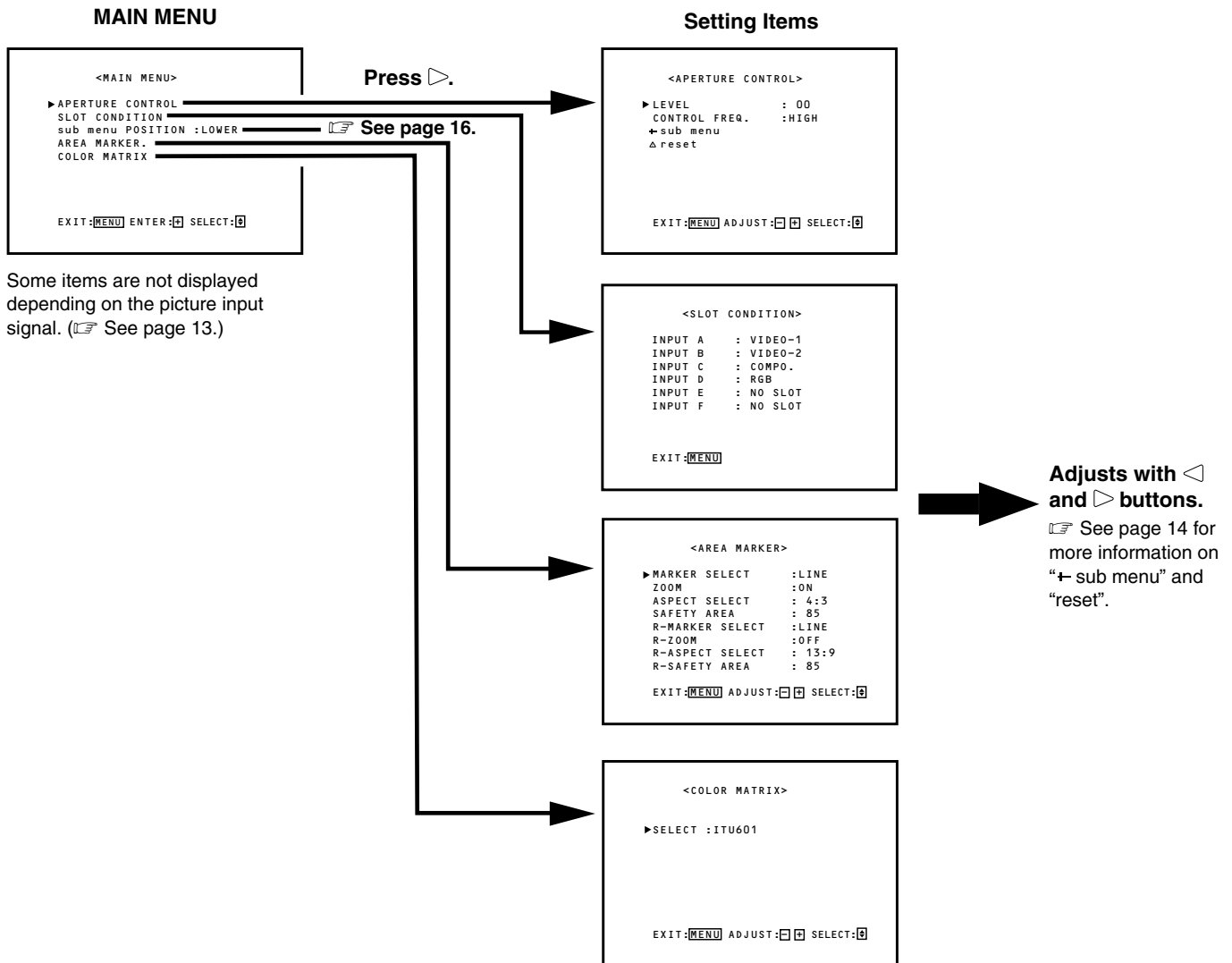
Select “reset” using the △ / ▽ buttons, then press the ▶ button.

NOTE:

- This function is only available when “reset” is displayed in the MENU.

HOW TO USE “MAIN MENU”

“MAIN MENU” SCREENS



Some items are not displayed depending on the picture input signal. (See page 13.)

* To go back the previous MENU, press MENU.

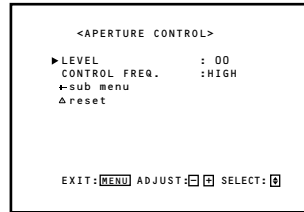
HOW TO USE "MAIN MENU" (cont'd)

ITEM CONTENTS AND ADJUSTMENT RANGE/SETTINGS

APERTURE CONTROL

Compensates the frequency characteristics of the input video signal.

Press the \triangleright button to display the setting menu illustrated on the right.



LEVEL

Adjusts the compensate value. The higher the number is, the larger the compensate value gets.

- 00 ~ +10

CONTROL FREQ.

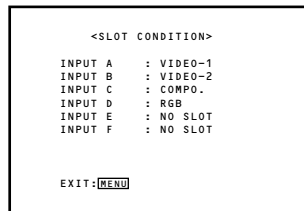
Adjusts the frequency compensation.

- HIGH:** Compensates the high frequencies.
- LOW :** Compensates the low frequencies.
- OFF :** Deactivates the aperture compensation.

SLOT CONDITION

Displays the status of the input cards installed in each of the input card slots.

Press the \triangleright button to display the setting menu illustrated on the right.



INPUT A/INPUT B : Status of SLOT1

INPUT C/INPUT D : Status of SLOT2

INPUT E/INPUT F : Status of SLOT3

VIDEO-1/VIDEO-2 : With VIDEO input card is installed.

COMP./RGB : With Component/RGB input card is installed.

SDI1/SDI2 : With SDI input card is installed.

HD SDI1/HD SDI2 : With HD SDI input card is installed.

NOTES:

- If an input card is compatible with EMBEDDED AUDIO, an asterisk (*) is displayed its name. (Example: HD SDI*)
- If an input card is compatible with both EMBEDDED AUDIO and AUDIO LEVEL METER, two asterisks (**) are displayed after its name. (Example: HD SDI**)
- The "--" indication may appear. This means that no signal is input to the corresponding INPUT, either because no input card is installed or because the input card only has a single input line.

sub menu POSITION

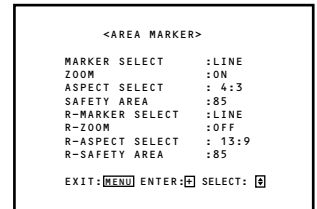
Selects the display position of the sub menu superimposed on the screen.

- ➔ For details, refer to "To change the position of the sub-menu display" on page 14.

AREA MARKER:

Controls ON/OFF and other settings of the MARKER, SAFETY MARKER, and ZOOM functions included in the AREA MARKER function.

Press the \triangleright button to display the setting menu illustrated on the right.



NOTES:

- For the 4:3 screen ratio, only SAFETY MARKER and R-SAFETY MARKER are displayed.
- To set up non-"R-" items, press the AREA MARKER button on the front panel. An external control system should not be operated at this time.
- To set up "R-" items, set the AREA MARKER function to ON via external control.
- Use the MAKE/TRIGGER terminal for external control of AREA MARKER function. Please note that this will only work when the AREA MARKER button on the front panel has been pressed (the AREA MARKER lamp will be illuminated). For details, refer to "HOW TO USE THE MAKE/TRIGGER TERMINAL" on page 23.

MARKER SELECT/R-MARKER SELECT

It displays the area of the aspect ratio that has been set in the ASPECT SELECT/R-ASPECT SELECT, superimposed on the current screen.

OFF : MARKER does not function.

LINE : Displays the area with an outline.

S.HALF : The area outside the specified screen ratio is displayed as a 50% transparency.

HALF+L : The area of the specified screen ratio is indicated by an outline, and the area outside of that is displayed as a 50% transparency.

S. BLK : The area outside the specified screen ratio is black. Only the portion of the picture within the designated area is displayed.

BLK.+L : The area of the specified screen ratio is indicated by an outline, and the area outside of that becomes black so that only the area inside the line is displayed.

ZOOM/R-ZOOM

Zooms the centre of the marked area.

OFF: Does not zoom.

ON : Zooms.

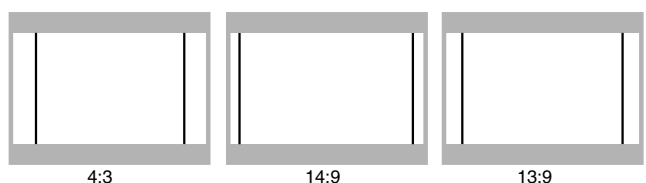
NOTES:

- Does not function when under-scan is operated.
- To adjust the zoom picture size, refer to "ZOOM V. SIZE" and "ZOOM H. SIZE" on page 19.

ASPECT SELECT/R-ASPECT SELECT

Selects the screen aspect ratio.

- 4:3/13:9/14:9



■ SAFETY AREA/R-SAFETY AREA

Displays dotted lines to indicate the areas corresponding to 80%, 88%, or 90% of the screen size (the aspect ratio setting in “ASPECT SELECT/R-ASPECT SELECT”).

OFF: SAFETY AREA does not function.

90%: Marked area is 90% of the 16:9 screen ratio.

88%: Marked area is 88% of the 16:9 screen ratio.

80%: Marked area is 80% of the 16:9 screen ratio.

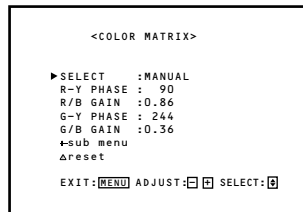
NOTES:

- When a picture of 4:3 aspect ratio is input, SAFETY AREA for 4:3 screen is displayed.
- To display SAFETY AREA for 16:9 screen ratio when a picture of 16:9 aspect ratio is input, set “MARKER SELECT/R-MARKER SELECT” to OFF. (In this case, setting of ASPECT SELECT is invalid.)

COLOR MATRIX

Selects or adjusts the standard of the colour demodulation (colour rendering).

Press the \triangleright button to display the setting menu illustrated on the right.



The menu screen when MANUAL is selected.

- The standard setting is set to “ITU601” or “ITU709” depending on the input signal format. The factory preset of MANUAL is ITU709

Input Signal Format	Standard setting	Manual setting (MANUAL)
NTSC, PAL, 480/60i, 480/60p, 576/50i, 575/50p	ITU601	ITU709
720/60p, 1080/50i, 1080/60i, 1035/60i, 1080/24psF	ITU709	

■ SELECT

Selects the picture matrix standard.

ITU601 or ITU709 : Standard setting

MANUAL : Manual setting

NOTE :

The following items are displayed when MANUAL is selected. When ITU601 or ITU709 is selected, they are not displayed.

■ R-Y PHASE

Sets the R-Y phase.

- 90/92/94/112

■ R/B GAIN

Sets the R/B gain.

- 0.86/0.56/0.68/0.79

■ G-Y PHASE

Sets the G-Y phase.

- 244/253/236/240

■ G/B GAIN

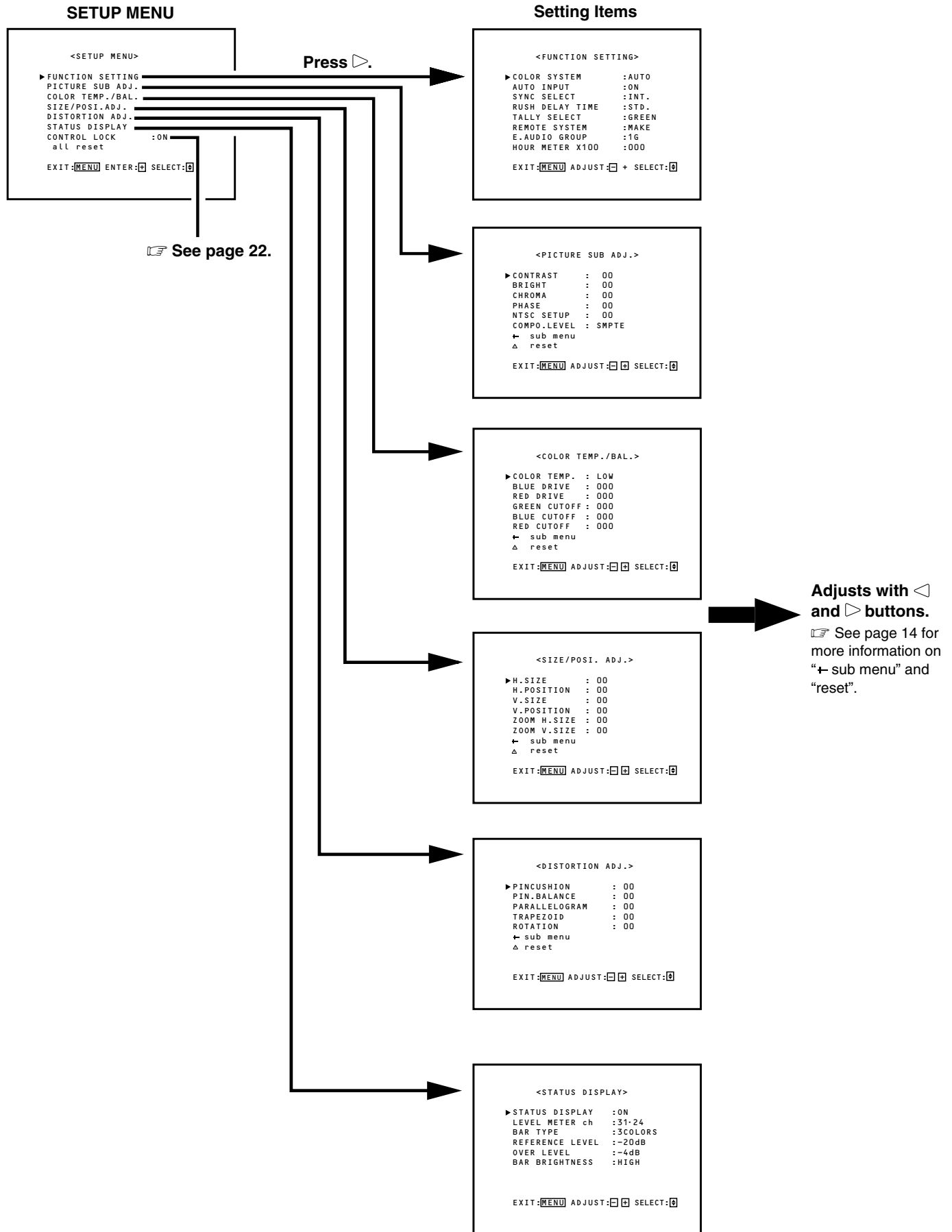
Sets the G/B gain.

- 0.30/0.34/0.40/0.45

ITU601	R-Y PHASE	90
	R/B GAIN	0.79
	G-Y PHASE	244
	G/B GAIN	0.45
ITU709	R-Y PHASE	90
	R/B GAIN	0.86
	G-Y PHASE	244
	G/B GAIN	0.30

HOW TO USE "SETUP MENU"

"SETUP MENU" SCREENS



* To go back the previous MENU, press MENU.

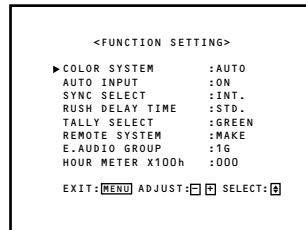
ITEM CONTENTS AND ADJUSTMENT RANGE/SETTINGS

FUNCTION SETTING

Selects the control systems for the COLOR SYSTEM, synchronized signal, RUSH DELAY TIME, tally lamp colours, and MAKE/TRIGGER terminal.

- Checks the amount of time that the monitor has been used.
- Sets the AUTO INPUT function ON/OFF. (When an input card compliant with AUTO INPUT is installed.)
- Selects the audio channel group for the EMBEDDED AUDIO. (When an input card compliant with EMBEDDED AUDIO is installed.)

Press the \triangleright button to display the setting menu illustrated on the right.



COLOR SYSTEM

Selects the colour system when using the video input card.

- AUTO** : Changes NTSC and PAL automatically.
- NTSC** : Keeps the colour system NTSC.
- PAL** : Keeps the colour system PAL.

NOTE:

Normally select AUTO. However, if the input signal is unstable, select NTSC or PAL.

AUTO INPUT

When HD SDI signal and D1 SDI signal need to be switched to input accordingly by one signal cable, AUTO INPUT automatically detects whether a signal is being input to Input A (HD SDI input card) or Input C (SDI input card) and switches INPUT accordingly.

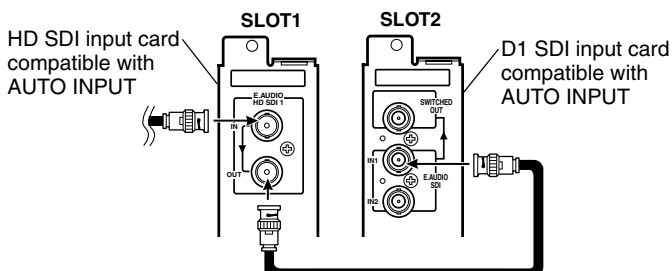
- ON** : AUTO INPUT is ON.
- OFF** : AUTO INPUT does not function.

NOTES:

- Functions only when input card compatible with AUTO INPUT is used.
- "INPUT SELECT ERROR" is displayed for approx. 3 seconds when different signal cables are connected to each INPUT A and INPUT C and signals are input to the each of them.

Preparation for the AUTO INPUT function (See below illustration)

1. Insert HD SDI input card to SLOT1, and SDI input card to SLOT2 (both cards need to be compatible with AUTO INPUT), then connect the signal cable.
2. Input HD SDI signal or D1 SDI signal to HD SDI input card.



SYNC SELECT

Synchronized signal selection.

- INT.** : The input video signal is synchronized with the built-in sync signal.
- EXT.** : The input video signal is synchronized with an external signal from an external sync terminal.

RUSH DELAY TIME

Sets the time when the power supply to the monitor's circuits (excluding the micro computers) starts after the power switch is pressed.

- STD.** : The power supply starts approx. 1 second after the power switch is pressed.
- SLOW** : The power supply starts approx. 3.2 seconds after the power switch is pressed.

NOTE:

If you are going to turn several Multi-Format Monitors on at the same time, it is recommended to apply SLOW to some of the monitors to control rush current.

TALLY SELECT

Selects the colour of the tally lamp (when lit) on the upper front panel.

- GREEN** : The tally lamp lights in green.
- RED** : The tally lamp lights in red.

REMOTE SYSTEM

Selects the control system for the MAKE/TRIGGER terminals. Refer to "HOW TO USE THE MAKE/TRIGGER TERMINAL" on page 23.

- **MAKE (make contact)/TRIGGER (trigger contact)**

E.AUDIO GROUP

Selects the audio channel group for EMBEDDED AUDIO. It is displayed when an input card compliant with EMBEDDED AUDIO is installed.

1G/2G/1-2G

- 1G** : 1ch → 2ch → 3ch → 4ch → 1-2ch → 3-4ch → 1-4ch
- 2G** : 5ch → 6ch → 7ch → 8ch → 5-6ch → 7-8ch → 5-8ch
- 1-2G** : 1ch → 2ch → 3ch → 4ch → 5ch → 6ch → 7ch → 8ch → 1-2ch → AUTO → 5-8ch → 1-4ch → 7-8ch → 5-6ch → 3-4ch

NOTE:

The auto setting mixes and outputs all 8 signal channels. Sets the output level automatically by detecting the number of channels receiving the signal.

* About sound output level

Sound output level is set to a standard output level for all channels when several sound channels are output at the same time. The more channels are selected, the lower each channel's level will be. (Each channel's level becomes half for 1-2 channel, 1/4 for 1-4 channel.)

HOUR METER X100h

Displays the total usage time of the monitor in hundred-hour units.

- **000 ~ 655**

NOTES:

- When the timer passes 655, it returns to 000.
- The timer does not count the usage time under one hour.

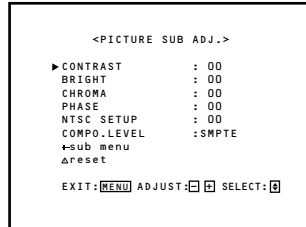
HOW TO USE "SETUP MENU" (cont'd)

PICTURE SUB ADJ.

Controls the approximate adjustment of the video control level when the video adjustment knob is adjusted to the centre.

- Can also be used to switch the NTSC set-up level, and change the component signal's input level settings.

Press the \triangleright button to display the setting menu illustrated on the right.



NOTE :

When the RGB signal is input, only CONTRAST and BRIGHT are displayed. When the PAL signal is input, only CONTRAST, BRIGHT and CHROMA are displayed.

■ CONTRAST

- -20 ~ 00 ~ +20

■ BRIGHT

- -20 ~ 00 ~ +20

■ CHROMA

- -20 ~ 00 ~ +20

■ PHASE

- -20 ~ 00 ~ +20

■ NTSC SETUP

Sets the set-up level of the input NTSC signal.

- 00 : Compliant with 0% set-up signal.
- 7.5 : Compliant with 7.5% set-up signal.

NOTE :

NTSC SETUP is displayed only when the video input card is installed and an NTSC signal is input.

■ COMPO. LEVEL

Sets the set-up level of the input component signal.

- SMPTE : Compliant with M2VTR signals.
- B75 : Compliant with Betacam 7.5% set-up signal.
- B00 : Compliant with Betacam 0% set-up signal.

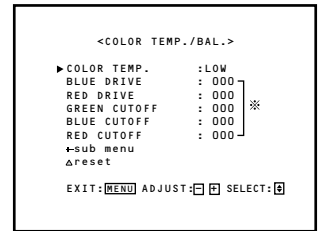
NOTE :

COMPO. LEVEL is displayed only when a 480/60i, 480/60p, 576/50i or 576/50p signal is input.

COLOR TEMP./BAL.

Sets or adjusts the colour temperature or white balance.

Press the \triangleright button to display the setting menu illustrated on the right.



- Use the five items indicated with ※ mark to make fine adjustments between the monitors.

■ COLOR TEMP.

Selects the colour temperature.

- HIGH : Sets the colour temperature to 9300.
- LOW : Sets the colour temperature to 6500.

■ BLUE DRIVE

Adjusts the blue drive level.

- MIN ~ 000 ~ MAX (in 127 grades)

■ RED DRIVE

Adjusts the red drive level.

- MIN ~ 000 ~ MAX (in 127 grades)

■ GREEN CUTOFF

Sets the green cut-off point.

- MIN ~ 000 ~ MAX (in 205 grades)

■ BLUE CUTOFF

Sets the blue cut-off point.

- MIN ~ 000 ~ MAX (in 205 grades)

■ RED CUTOFF

Sets the red cut-off point.

- MIN ~ 000 ~ MAX (in 205 grades)

SIZE/POSI. ADJ.

Adjusts the size or position of the picture.

Press the \triangleright button to display the setting menu illustrated on the right.

```
<SIZE/POSI. ADJ.>
▶H.SIZE      : 00
H.POSITION   : 00
V.SIZE       : 00
V.POSITION   : 00
ZOOM H.SIZE  : 00
ZOOM V.SIZE  : 00
+sub menu
Δreset
EXIT: [MENU] ADJUST: [ ] SELECT: [ ]
```

■ H.SIZE

Adjusts the horizontal screen size.

• -20 ~ 00 ~ +20 (*)

- : Reduces the screen size horizontally.
- + : Enlarges the screen size horizontally.

* Reduced to 00 ~ +20 during the under-scan mode.

■ H.POSITION

Adjusts the horizontal screen position.

• -20 ~ 00 ~ +20

- : Move the screen to the left.
- + : Move the screen to the right.

■ V.SIZE

Adjusts the vertical screen size.

• -20 ~ 00 ~ +20

- : Reduces the screen size vertically.
- + : Enlarges the screen size vertically.

■ V.POSITION

Adjusts the vertical screen position.

• -20 ~ 00 ~ +20

- : Move the screen up.
- + : Move the screen down.

■ ZOOM V. SIZE

• -20~00

■ ZOOM H. SIZE

• -20~+20

NOTE:

- ZOOM V. SIZE and ZOOM H. SIZE are displayed only when the ZOOM function is operated. ZOOM V. SIZE adjusts the screen size vertically, and ZOOM H. SIZE adjusts it horizontally when the ZOOM is operated.

DISTORTION ADJ.

Compensates the picture distortion.

Press the \triangleright button to display the setting menu illustrated on the right.

```
<DISTORTION ADJ.>
▶PINCUSHION  : 00
PIN.BALANCE  : 00
PARALLELOGRAM : 00
TRAPEZOID    : 00
ROTATION     : 00
+sub menu
Δreset
EXIT: [MENU] ADJUST: [ ] SELECT: [ ]
```

■ PINCUSHION

Compensates pincushion picture distortion.

• -20 ~ 00 ~ +20

- : Expands both left and right sides of the picture.
- + : Squeezes both left and right sides of the picture.

■ PIN.BALANCE

Adjusts the compensation balance of the pincushion picture distortion.

• -20 ~ 00 ~ +20

- : The picture is expanded on the left side, and squeezed on the right side.
- + : The picture is squeezed on the left side, and expanded on the right side.

■ PARALLELOGRAM

Compensates parallelogram picture distortion.

• -20 ~ 00 ~ +20

- : Moves the upper side of the picture to the right, and the lower side to the left.
- + : Moves the upper side of the picture to the left, and the lower side to the right.

■ TRAPEZOID

Compensates trapezoid picture distortion.

• -20 ~ 00 ~ +20

- : Enlarges the upper side of the picture.
- + : Reduces the upper side of the picture.

■ ROTATION

Compensates for picture tilt.

• -31 ~ 00 ~ +31

- : Turns the picture clockwise.
- + : Turns the picture counterclockwise.

HOW TO USE “SETUP MENU” (cont'd)

STATUS DISPLAY

Sets the status display ON/OFF.

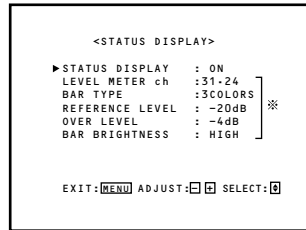
* Switches the display on and off. Also selects the type of display. (When an input card compliant with AUDIO LEVEL METER is installed.)

* Switches the AUDIO PLL setting. (When SDI input card compliant with EMBEDDED AUDIO is installed.)

Press the \triangleright button to display the setting menu illustrated on the right.

NOTE:

※ Function setting is displayed when input card compliant with AUDIO LEVEL METER is installed.



STATUS DISPLAY

Sets the status display ON or OFF.

ON : The information is displayed.

OFF : The information is not displayed.

LEVEL METER ch

Selects the audio channels used in the AUDIO LEVEL METER display.

• OFF/1:2/12:34/31:24/123:456/1-8

NOTES:

- Numbers indicate the audio channel. The channel input level indicated on the left side of “:” is displayed on the left side of the screen, and the channel input level indicated on the right side of “:” is displayed on the right side of the screen.
- AUDIO LEVEL METER is not displayed when this is set to OFF.
- When “1-8” is selected, the channel input level for 1, 2, 3 and 4 is displayed on the left side of the screen, and the channel input level for 5, 6, 7 and 8 is displayed on the right side of the screen.

BAR TYPE

Selects the colour of the audio level meter.

WHITE-1 : White colour display

WHITE-2 : White (half transparent) display

3 COLORS : The audio level meter uses three different colours (red, yellow and green) to indicate variations in input levels.

Red : displayed when the audio input exceeds the level set in “OVER LEVEL”.

Yellow : displayed when the audio input exceeds the level set in “REFERENCE LEVEL”.

Green : displayed when the audio input does not exceed the level set in “REFERENCE LEVEL”.

NOTES:

- For WHITE-1 and WHITE-2, the line indication for the standard input level set in the “REFERENCE LEVEL” is displayed. Input level set in the “OVER LEVEL” is not displayed.
- As for the audio channel bar display with no signal input, white is displayed for the 3COLORS setting, and grey is displayed for other settings.

REFERENCE LEVEL (※)

Sets the standard input level.

• -20dB/-18dB

OVER LEVEL (※)

Sets the input level's lower limit indicated in red for the “3COLORS” display.

• -8dB/-6dB/-4dB/-2dB

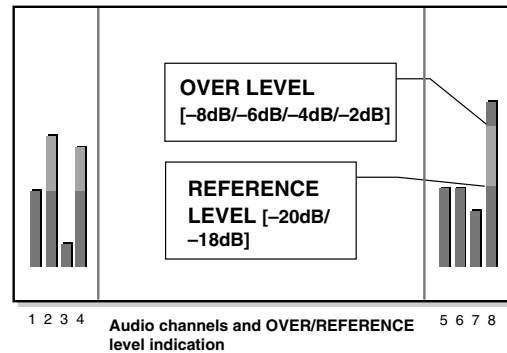
BAR BRIGHTNESS (※)

Selects the brightness of the AUDIO LEVEL METER display.

HIGH : Brighter

LOW : Darker

AUDIO LEVEL METER display example LEVEL METER ch: 1-8, BAR TYPE: 3COLORS



CONTROL LOCK

CONTROL LOCK

Invalidates most of operations on the front panel (including menu screen operations).

OFF : Enables normal operations.

ON : Invalidates all operations except the power switch and CONTROL LOCK.

NOTES:

- While CONTROL LOCK is set to ON, attempting to perform any operation except power switch and CONTROL LOCK causes the “Control lock on!” warning to appear on the screen for approx. 3 seconds. (It is possible to operate the power switch and display SETUP MENU.)
- When SETUP MENU is displayed while CONTROL LOCK is set to ON, the cursor (\blacktriangleright) is located next to CONTROL LOCK and cannot be moved.

all reset

Resets all SETUP MENU items to factory-preset values.

1. Select “all reset” by \triangle / ∇ buttons, then press \triangleright button. Confirmation message is displayed.

2. To initialise, press \triangleright button.

To cancel the initialization, press the MENU button.

HOW TO USE EXTERNAL CONTROL

ABOUT EXTERNAL CONTROL

The Multi-Format Monitor has two external control terminals.

One is the MAKE/TRIGGER terminal, which allows the monitor to be controlled by the MAKE(make contact) or TRG. (trigger contact) method selected in the function setting.

MAKE (make contact system): Controls functions either by short-circuiting (short with GND of 15th terminal) or stable disconnection (terminal open) of the controlled terminal.

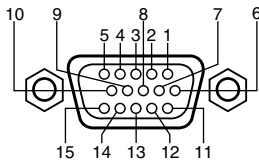
TRG. (trigger system) : Controls the function by instantaneously (one second) short-circuiting (short with GND of 15th terminal) the controlled terminal.

* MAKE or TRIGGER are selected from REMOTE SYSTEM in the setup menu.

The other terminal used for remote control is the RS-485 terminal, and this allows the monitor to be controlled by serial communication.

NOTE: Control priority is in the following order; ① MAKE/TRIGGER terminal > ② RS-485 terminal > ③ front panel buttons.
When trigger contact is on, the front panel buttons can be operated.

HOW TO USE THE MAKE/TRIGGER TERMINAL



No.	Functions to be controlled	Disconnection	Short-circuiting	*1
1	Turns on the tally lamp	Off	On	*2
2	Changes the input to INPUT A	Invalid	Valid	
3	Changes the input to INPUT B	Invalid	Valid	
4	Changes the input to INPUT C	Invalid	Valid	
5	Changes the input to INPUT D	Invalid	Valid	
6	Changes the input to INPUT E	Invalid	Valid	
7	Changes the input to INPUT F	Invalid	Valid	
8	COLOR OFF	Off	On	
9	AREA MARKER	Off	On	
10	ASPECT	Off	On	
11	TALLY SELECT	GREEN	RED	
12	AREA MARKER set-up	without "R-"	with "R-"	*3
13	STATUS DISPLAY	ON	OFF	
14	External Control	Invalid	Valid	*2
15	GND			

*1 : The TRIGGER (trigger contact) system switches each setting by instantaneously (approx. 1 second) short-circuiting (short with GND of 15th terminal) the controlled terminal.

*2 : TALLY (1st terminal) and EXTERNAL CONTROL (14th terminal) must be controlled with the MAKE (make contact) system even under the TRIGGER (trigger contact) system.

*3 : Activating each with "R-" or without "R-" setting in the AREA MARKER menu is possible. Refer to "AREA MARKER" on page 14 for details.

Operation

- Short-circuit EXTERNAL CONTROL (14th terminal) to GND (15th terminal) to activate the external control.
- Under the MAKE system, controls each function by short-circuiting (short with GND of 15th terminal) or stable disconnection (terminal open) of the controlled terminal.
- Under the TRIGGER (trigger contact) system, controls each function by Pulse Control, that is by instantaneously (approx. 1 second) short-circuiting (short with GND of 15th terminal) the controlled terminal.

NOTES:

- When using INPUT A (the 2nd pin) through INPUT F (7th terminal), only the terminal in use should be short-circuited, the others must be disconnected.
- Under the TRIGGER system, multiple terminals cannot be short-circuited to GND (15th terminal). Be sure to short-circuit the single terminal to GND.

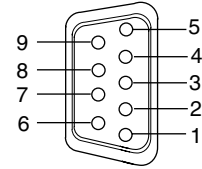
HOW TO USE EXTERNAL CONTROL (cont'd)

HOW TO USE THE RS-485 TERMINAL

You can control the monitor from the controller (exclusive for this monitor) or your PC via the RS-485 terminal. For details on operating the monitor from the PC, consult the service centre.

1. Cable

Prepare a straight cable with a D-sub connector (9-pin, male) and a D-sub connector (9-pin, male)



2. Communications Specifications

Baud Rate : 4800/9600/19200 (factory pre-set; 4800)
 Data Bits : 8 bits
 Parity : No parity
 Stop Bits : 1
 Communication Cord : ASCII Cord

Pin No.	IN terminal signal	OUT terminal signal
1	5V Power (for controller exclusively for this monitor)	NC
2	TD+	TD+
3	RD+	RD+
4	NC	NC
5	NC	NC
6	NC	NC
7	TD-	TD-
8	RD-	RD-
9	NC	NC

3. Commands

Format

Header	ID	Command ID	Command Content	Data	CR
--------	----	------------	-----------------	------	----

Header

- ! Control from the PC to the monitor
- ? Reference from the PC to the monitor
- @ Answer from the monitor to the PC

ID + Command + Data

Character	Command	Characters	Data
B	Basic command	00, 01	No data
D	Command for adjusting the picture size	00 ~ 08	U, D (U: UP, D: DOWN)
S	Command for adjusting the picture quality	00 ~ 05	U, D (U: UP, D: DOWN)
M	Command for selecting the menu item	00 ~ 0E	00, 01, 10, 11
F	Command for selecting the menu item	00 ~ 10	00, 01, 02, 03, 04, 05
W	Command for adjusting the white balance	00 ~ 05	U, D (U: UP, D: DOWN)
C	Command for inquiring for the monitor's status	00	0 ~ 655

* The 5V power supply of the 1st terminal is for the controller exclusively for this monitor. Do not use it for other devices.

Communication Procedures

The following is the communication procedures.

1. Starting the communication
 Receives the connection command (!XXBCN1Cr) from the PC → Sends the monitor's status (@XXBOKCr) to the PC
2. Performing the external control
 Receives the control command (!XXXXCr) from the PC → Sends the monitor's status (@XXBOKCr) to the PC
 * The monitor repeats these receiving and sending if necessary.
3. Terminating the communication
 Receives the termination command (!XXBCN0Cr) → Sends the monitor's status (@XXBOKCr) to the PC
 * Hand-shake communication is used. This means that after sending a command to the monitor, the PC must receive a status return from the monitor before sending the next command.
 * When the monitor is controlled by a PC via RS-485, a conversion adapter (RS-232C ↔ RS-485) is also required.

TROUBLESHOOTING

Solutions to common problems related to your monitor are described here. If none of the solutions presented here solve the problem, unplug the monitor and consult a JVC-authorized dealer or service centre for assistance.

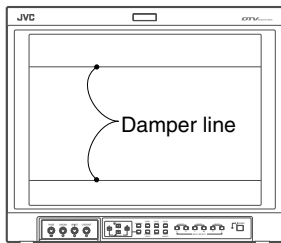
Problems	Points to be checked	Measures (Remedy)	Reference pages
No power supply	Is the power plug loosened or disconnected?	Firmly insert the power plug.	—
	Is the main power turned OFF?	Turn the main power ON.	6
No picture with the power on	Is the signal cable disconnected?	Connect the signal cable firmly.	7 ~ 10
	Is the power of the connected component ON? Is the signal output from the connected component?	Turn on the power of the connected component and set it correctly.	—
	Is the input signal selected correctly?	Select the correct input with the INPUT SELECT buttons.	5
	Is the input signal adapted to the monitor's specification?	Check that the input signal format corresponds to the installed input card format.	7 ~ 10
	Are any of the self-check indicators (INPUT SELECT A through F buttons) blinking?	Follow the procedures in "SELF-CHECK INDICATIONS".	27
No sound	Is the audio cable disconnected?	Connect the audio cable firmly.	7 ~ 10
	Is the audio signal output from the connected component?	Set the connected component correctly.	—
	Is the volume output set to minimum?	Adjust the speaker volume with the VOLUME (volume adjustment) buttons.	4
Wrong colour	Has the picture adjustment been changed?	Set each picture adjustment knob to the standard (centred) position. Or, set each picture adjustment item in [PICTURE SUB ADJ.] in the <SETUP MENU> screen to Standard (00) (or use the [reset] function).	4, 20
	Has the WHITE BALANCE setting been changed?	Set each [COLOR TEMP./BAL.] item in the <SETUP MENU> screen to Standard (000) (or use the [reset] function).	20
	Are any cables connected to the component/RGB input card?	Connect each signal cable firmly.	7
	Has the correct signal been input to the component/RGB input card and the correct INPUT been selected on the monitor?	Select INPUT A/C/E when the component signal is input, or select INPUT B/D/F when the RGB signal is input.	7
Unnatural picture	Has [CONTRAST] or [BRIGHT] been changed?	Adjust the CONTRAST or BRIGHT picture adjustment knobs. Or, adjust the [CONTRAST] or [BRIGHT] item in [PICTURE SUB ADJ.] in the <SETUP MENU> screen.	4, 20
Shaking picture	Is the monitor close to a motor, transformer or any other device generating a strong magnetic field? (a fan, fluorescent light, laser printer, another monitor, etc.)	Move the monitor away from the device until the picture stops shaking. Connect the power plug to another AC outlet away from the former one.	—

TROUBLESHOOTING (cont'd)

Problems	Points to be checked	Measures (Remedy)	Reference pages
Irregular colour	Is the monitor placed or moved close to a speaker or any other device incorporating a magnet? Has the position of the monitor been changed with the power on?	Move the device away from the monitor. Press the DEGAUSS button on the front panel to degauss the screen. When degaussing, wait more than 30 minutes for maximum effect.	4
Wrong picture position, wrong picture size	Has the picture position, size or distortion been changed?	Adjust the picture size (H. SIZE, V. SIZE) or position (H. POSITION, V. POSITION) in the [SIZE/POSI. ADJ.] item in the <SETUP MENU> screen. Adjust the picture distortion (PINCUSHION, PIN. BALANCE, TRAPEZOID and PARALLELOGRAM) in the [DISTORTION ADJ.] item in the <SETUP MENU> screen. It may not be possible to expand the picture due to the selected input mode. In this case, adjustment is impossible.	21
	Have the UNDER SCAN or ASPECT button been pressed?	When the UNDER SCAN or ASPECT button is lit, press each button to invalidate each setting.	5
Front panel buttons and knobs do not function	Has the CONTROL LOCK function been set to ON?	Set the CONTROL LOCK function to OFF.	22
	Has the monitor's setting been changed to enable control from an external unit via the REMOTE terminals?	Change the setting of the external control to control the monitor locally.	23, 24

The following are not malfunctions:

- You may see two horizontal lines on the monitor. They are the shadows of the "damper lines" that are necessary for composing the monitor. These lines are not a malfunction.

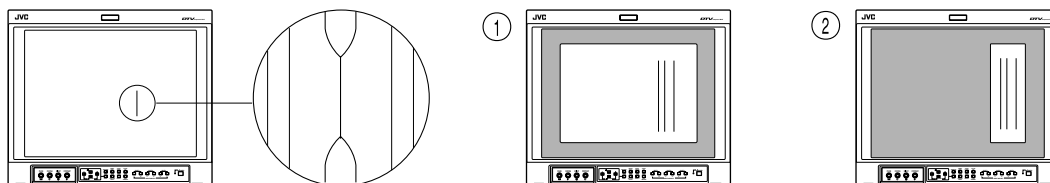


(Front view of DT-V1910CG shown)

- When a bright still image (such as a white cloth) is displayed for a long period, it may appear to be coloured. This is due to the structure of the cathode ray tube and will disappear when another image is displayed.
 - You may sometimes experience a mild electric shock when you touch the picture tube. This phenomenon is due to a normal buildup of static electricity on the CRT and is not harmful.
 - The monitor emits a strange sound when the room temperature changes suddenly. This is only a problem if an abnormality appears on the screen as well.
 - If two or more monitors are operated next to each other, their images may shake or be distorted. This phenomenon is due to mutual interference; it is not a malfunction. Move the monitors away from each other until the interference disappears or turn the power off on any monitor that is not being used.
- About CRT tube reflection (when Zoom mode is used.)
The screen might appear as brownish white. This is due to a reflection of part of the image on the CRT caused by certain signal sources, and it is not a malfunction.

When black vertical lines appear on the screen

Black vertical lines may appear on the screen if the aperture grill is tilted as a result of being shaken or jolted during shipment.



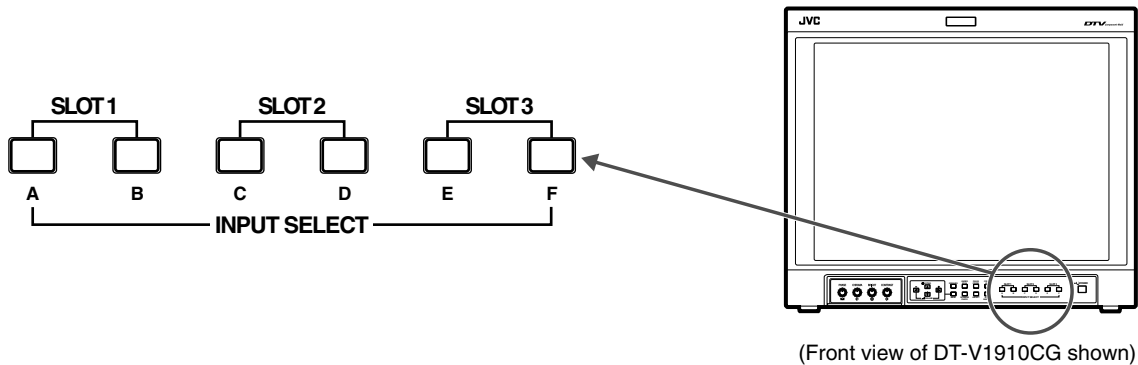
In this case, try tapping the monitor on the side. If this does get rid of the lines, follow the procedure below.

- Display a white screen, so that the problem area can be seen clearly.
- Maximize the "CONTRAST" and "BRIGHT" adjustments, then place a bright white rectangle on the area.
- After a while, the lines should disappear.

■ SELF-CHECK INDICATIONS

When the screen goes blank, and one or more of the INPUT SELECT A through F buttons on the front control panel start blinking...

This monitor has a self-check function, which allows it to detect malfunctions and alert you. This makes trouble-shooting easier. Whenever a problem occurs, a combination of “self-check indicators” (INPUT SELECT A through F buttons) will blink and the monitor’s power automatically turns off. If this happens, follow the steps below and contact your dealer to resolve the problem.



1. Check which indicators are blinking.
2. Turn off the main power switch on the back of the monitor.
3. Disconnect the Power Cord from the AC outlet.
4. Contact your dealer with the information about which indicators are blinking.

NOTE:

- If you turn on the monitor’s power immediately after turning it off (or after a short-term power failure), the self-check indicators may blink, and no image may be displayed. When this happens, turn off the power, and wait at least 10 seconds before turning it on again. If the self-check indicators have stopped blinking, you can use the monitor as usual.

SPECIFICATIONS

Model	DT-V1910CG	DT-V1710CG
Type	Multi-Format Monitor	Multi-Format Monitor
Picture Tube	19" measured diagonally	17" measured diagonally
Effective Screen Size	Width :370 mm Height :270 mm Diagonal :460 mm	Width :330 mm Height :250 mm Diagonal :410 mm
Scanning Frequency	H : 15 kHz/27 kHz – 45 kHz V : 50 Hz – 80 Hz	
Video Band	Component : 25 MHz (–3 dB) Video (Y/C) : 8 MHz (–3 dB)	
Horizontal Resolution	Video (Y/C): 600 TV lines 1080/60i: 900 TV lines	Video (Y/C): 600 TV lines 1080/60i: 800 TV lines
Input Terminals	Installing an optional input card in SLOT 1, 2, or 3 is required. INPUT A/INPUT B: Terminals on the input card in SLOT 1 INPUT C/INPUT D: Terminals on the input card in SLOT 2 INPUT E/INPUT F: Terminals on the input card in SLOT 3	
Compliant Video Signal	NTSC (3.58 MHz)/PAL (4.43 MHz) (using the IF-C01PNG) 480i/576i/480p/576p/1080i (50 Hz/60 Hz/24psF)/720p (50 Hz/60 Hz) (using the IF-C01COMG) D1 serial digital (using the IF-C01SDG) HD serial digital (using the IF-C12HSDG)	
Remote Inputs	Point-of-contact connection, 1 line, D-sub connector (15-pin 3-line) Serial connection, 1 line, D-sub connector (9-pin), compliant to RS-232C	
Audio Output	1 W (monaural)	
Built-in Speaker	8 cm round x 1	
Environmental Conditions	Operating temperature: 5°C – 35°C (41°F – 95° F) Operating humidity: 20% – 80% (non-condensing)	
Power Requirements	220 V AC, 50 Hz/60 Hz	
Power Consumption (when input card is inserted)	220 V AC: 1.3 A	220 V AC: 1.1 A
Dimensions	Width: 440 mm Height: 375 mm Depth: 496 mm (not including wide mask and input card)	Width: 395 mm Height: 334 mm Depth: 466.5 mm (not including wide mask and input card)
Weight	29.4 kg (not including wide mask and input card)	23.7 kg (not including wide mask and input card)
Accessory	AC power cord (2.5 m) x 1 Power cord holder x 1 (case and cover) Screws x 2 (Power cord holder) Wide Mask x 1 Screws x 4 (Wide Mask)	

* Illustrations and pictures used in this manual have been exaggerated, abbreviated or compounded for explanatory purposes only. The appearance of the actual product may differ slightly.

* Dimensions and weight are approximate.

* E. & O.E. Design and specifications subject to change without notice.

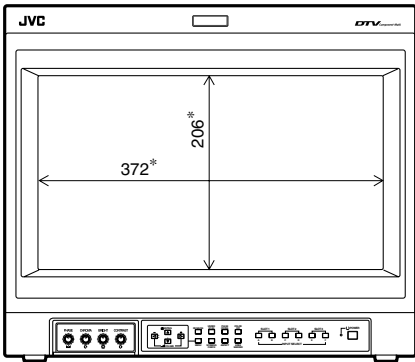
SPECIFICATIONS (cont'd)

■Dimensions

[DT-V1910CG]

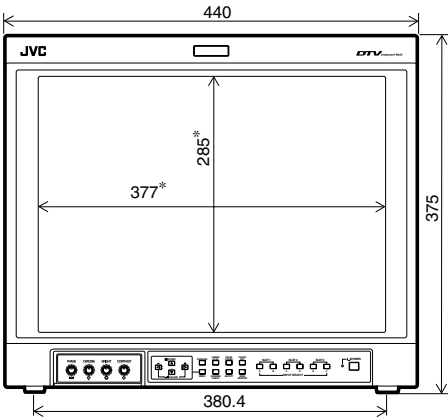
Unit : mm

<Front View with the wide mask attached>

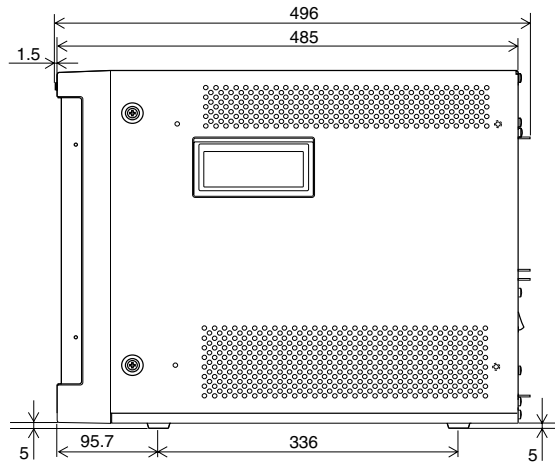


Asterisks(*) are used to indicate front panel dimensions.

<Front View>



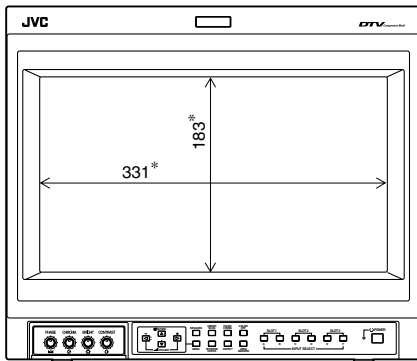
<Side View>



[DT-V1710CG]

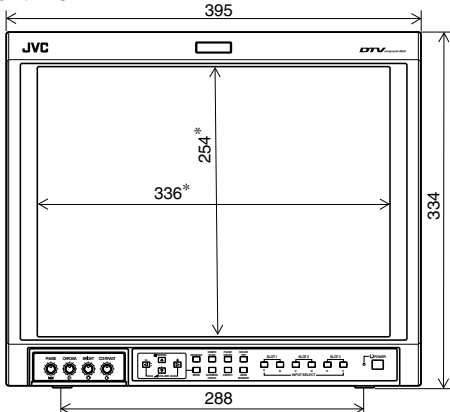
Unit : mm

<Front View with the wide mask attached>

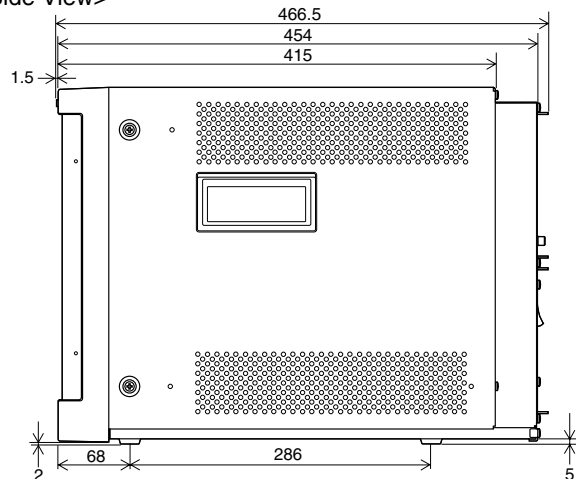


Asterisks(*) are used to indicate front panel dimensions.

<Front View>



<Side View>



■ Compliant Signal Formats of Each Input Card

Input Signals	IF-C01PNG	IF-C01CONG	IF-C01SDG	IF-C21SDG	IF-C51SDG	IF-C12HSDG	IF-C21HSDG	IF-C51HSDG
NTSC (3.58 MHz)	○	—	—	—	—	—	—	—
PAL (4.43 MHz)	○	—	—	—	—	—	—	—
Black-and-White (50 Hz/60 Hz)	○	—	—	—	—	—	—	—
480/60i (525i)	—	○	○	○	○	—	—	—
480/60p (525p)	—	○	—	—	—	—	—	—
576/50i	—	○	○	○	○	—	—	—
576/50p	—	○	—	—	—	—	—	—
720/50 (720p)	—	○	—	—	—	—	○	○
720/60p (720p)	—	○	—	—	—	○	○	○
1080/50i	—	○	—	—	—	○	○	○
1080/60i (1125i)	—	○	—	—	—	○	○	○
1035/60i (1125i) (*1)	—	○	—	—	—	○	○	○
1080/24psF	—	○	—	—	—	○	○	○
EMBEDDED AUDIO	—	—	—	○	○	○	○	○

○ : Input possible. Pre-set.

○ : Input possible. Not pre-set.

— : Input impossible

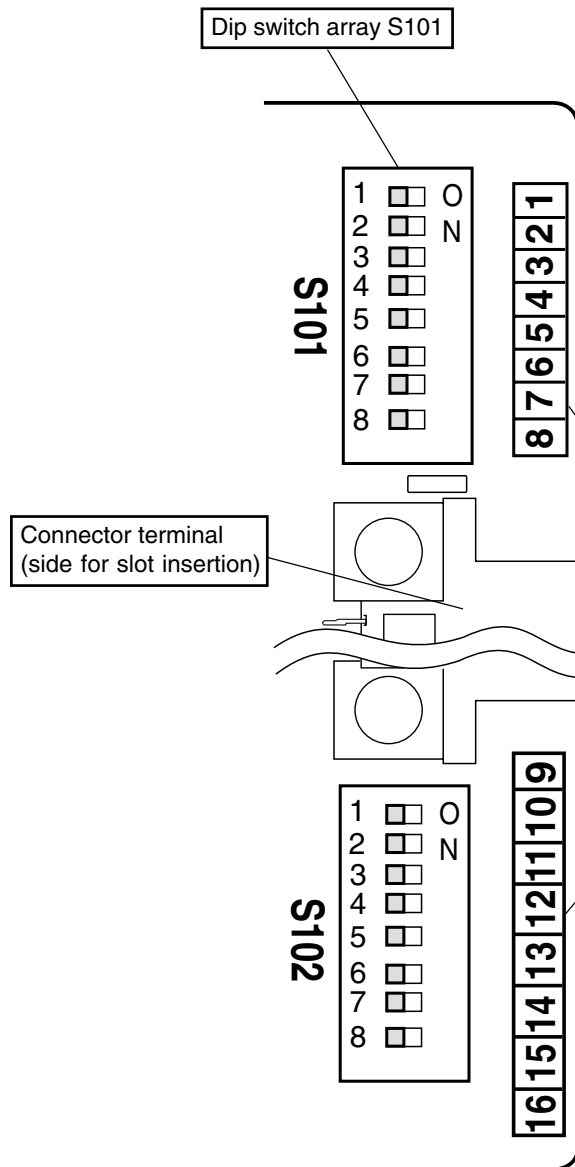
*1 : 1035/60i (1125i) is not pre-set. To input signals of these types, some setup adjustments are required.

SPECIFICATIONS

(Input card : optional)

■ Precautions when attaching an input card with dip switches

Some input cards have two dip switch arrays: dip switch array S101 on the upper part of the connector terminal and dip switch array S102 on the lower part. The surface of these switches is pre-coated with a film on shipment from the factory. When problems arise, such as not being able to set functions properly with the dip switches, be sure to check the following:



The numbers 1 to 16 on the PC board to the right of the respective dip switches indicate the respective switch. Make sure that switches 1 and 16 are set to OFF.

- The numbers 1 to 8 on the dip switch array S101 indicate dip switches 1 to 8, while the numbers 1 to 8 on dip switch array S102 indicate dip switches 9 to 16.
- A switch is ON when it is set to the right side (where ON is indicated) and OFF when it is set to the left side. The figure on the left is the factory default setting, wherein all of the selector switches are set to OFF.



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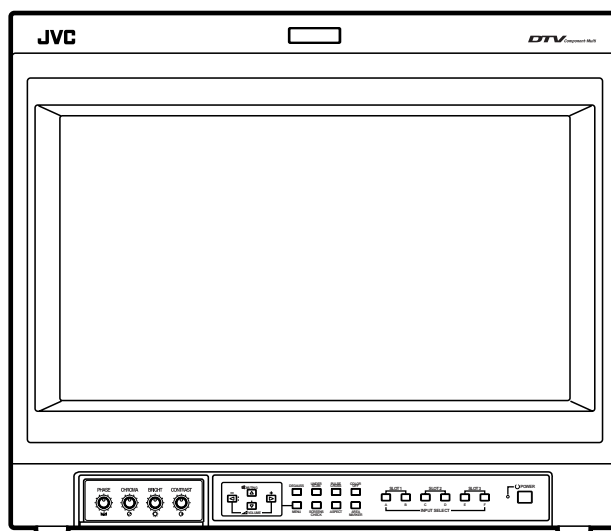
JVC[®]

多格式监视器

DT-V1910CG DT-V1710CG

使用说明书

按图所示为配备宽屏护罩的DT-V1910CG多格式监视器。



(DT-V1910CG 图)

感谢您购买JVC的多格式监视器。在您使用之前，请先仔细阅读并遵守本操作指导，以全面了解此设备的性能优势。

使用前的安全注意事项

为防止因错误操作或错误使用监视器而引起致命事故，请了解以下使用前注意事项。

警告

为防止火灾或电击的危险，请勿让本监视器遭雨淋或受潮。机内带有危险高电压。请勿打开机壳后盖。维修监视器时，请与专业维修人员联络。切勿尝试自行维修。

警告：本装置必须接地。

警告

本监视器属于A级产品。在家庭中使用，有可能会受到无限电波的干扰。在这种情况下，请立即进行妥善的处理。

注意

- 只能使用设备指定的电源。
(220 V AC、50 Hz/60 Hz)
- 请勿让设备 - 特别是设备内部元件，接触易燃材料、水和金属。
- 本设备由高压电路组成
为了您的自身安全和设备安全，请勿尝试改装或拆分本监视器。
监视器内部没有用户可维修部件。
- 没有安装选购的输入卡时，监视器无法输入视频和音频。
- 在本指导中，所有解释（除非另有注明）都是指装有输入卡的DT-V1910CG和DT-V1710CG。

操作

- 避免撞击或振动。这样可能会损伤设备或导致其出现故障。
- 不要堵住通风槽。
- 不要本设备暴露于高温下。
阳光直射下或热气中会导致机身变形或导致内部元件性能损伤。
- 不要把本设备放置于强电或强磁环境。否则会产生图像干扰和不稳定。
- 用软布擦拭监视器机身和CRT屏幕，不要用有机溶剂或苯剂。这些化学物品会损伤监视器表层并会化掉印著的字母。
当设备实在是太脏的时候，用稀释的中性清洁剂擦拭，然后用干布擦除清洁剂。

屏幕灼热

- 建议不要在屏幕上长时间显示一个静像或是显示特别明亮的图像。否则可能会引起屏幕的阴极射线管灼热（发粘）现象。如果显示正常的视频播放动像不会出现此类问题。

消磁

- 不要用磁性擦除器从外部对监视器的阴极射线管消磁。这样做可能会弄歪它的隙缝栅形荫罩并导致故障。

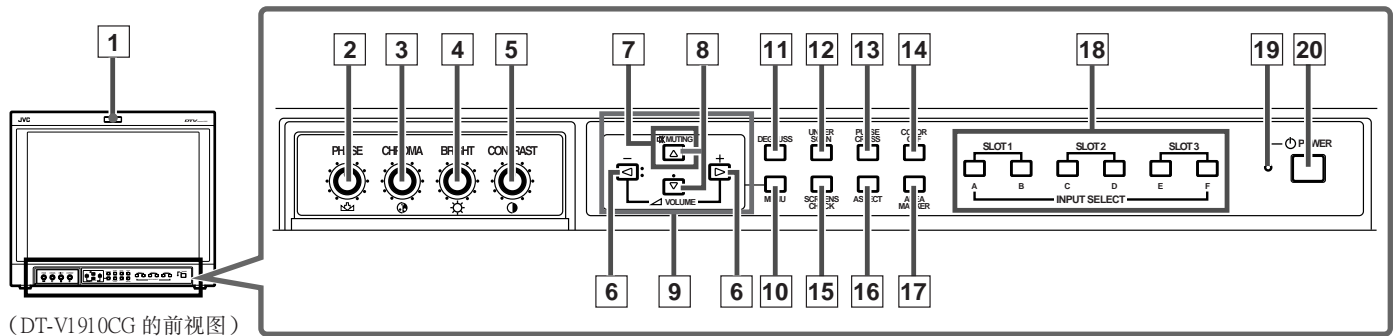
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控制和性能

正视图

<前面板>



(DT-V1910CG 的前视图)

1 TALLY灯

在TALLY控制信号处于ON（打开）时会闪亮。

- 请在REMOTE（外部控制）终端设定菜单中，设定MAKE/TRIGGER（接通/触发）终端的TALLY控制。

TALLY灯灯光可以设定成红色或绿色。

- 想要设定灯光色彩，可以通过在“FUNCTION SETTING（功能设置）”设定菜单里使用TALLY SELECT（TALLY选择），或者在REMOTE（外部控制）终端设定菜单中，设定MAKE/TRIGGER（接通/触发）。

→ 详情请参见第19页到23页。

2 PHASE（色相）调整按钮

调整图像颜色。

- 向左使图像变得更红，按钮向右使图像更绿。

3 CHROMA（色度）调整按钮

调整图像颜色深度。

- 按钮向左使图像颜色变浅，按钮向右使图像颜色变深。

4 BRIGHT（亮度）调整按钮

调整图像亮度。

- 按钮向左使图像变暗，按钮向右使图像变亮。

5 CONTRAST（对比度调整）按钮

调整图像对比度。

- 按钮向左把图像对比度调低，按钮向右把图像对比度调高。

6 VOLUME（音量）按钮

调节扬声器音量。

- 按下此按钮，在屏幕上显示出VOLUME（音量）等级条。再次按下按钮，可以调节扬声器音量大小。

7 静音按钮

按下此按钮关闭声音。

- 再次按下MUTING（静音）按钮，或VOLUME“-”或“+”（音量增减）按钮，可以取消“MUTING ON（静音启动）”（无声）字样。

注：

当屏幕上显示菜单或设置项目（例如MAIN MENU（主菜单），SETUP MENU（设置菜单），副菜单或VOLUME（音量）杆）时，此按钮成为菜单画面的控制按钮。此时，按此按钮不能关闭声音。

8 EMBEDDED AUDIO（内置音频）频道开关按钮

当屏幕显示音量杆时，按此按钮改变声音输入频道。

- 按下 Δ 按钮，可调高一个频道。
- 按下 ∇ 按钮，可调低一个频道。

注：

可供选择的频道和已在“FUNCTION SETTING（功能设定）”的设置菜单中选择的“E.AUDIO GROUP（内置音频组）”频道组对应。

* 安装了和EMBEDDED AUDIO（内置音频）兼容的输入卡时此功能有效。

9 菜单选择按钮

选择菜单屏幕项目或设置菜单屏幕。

10 MENU（菜单）按钮

显示、调整或关闭菜单屏幕。

11 DEGAUSS（消磁）按钮 / 灯

按 DEGAUSS（消磁）按钮。按钮点亮并且自动完成消磁。

- 消磁完成后，按钮灯会灭掉。

12 UNDER SCAN 按钮 / 灯

按 UNDER SCAN 按钮。按钮灯点亮并且屏幕缩小（缩扫描），显示整屏。

- 在按钮灯亮时再按 UNDER SCAN 按钮，灯会灭掉，屏幕恢复正常尺寸（放扫描）。
- 使用此功能检查整屏。

注：

此功能对 RGB 输入屏幕无效。

13 PULSE CROSS（脉冲十字）按钮 / 灯

按 PULSE CROSS（脉冲十字）按钮，按钮灯点亮，图像水平或垂直移动。屏幕自动变亮。显示同步信号以便确认同步化过程。

- 在按钮灯闪亮时，再按脉冲十字按钮，灯会灭掉，重新恢复正常屏幕。

注：

此功能对 RGB 输入屏幕无效。

14 COLOR OFF（彩色关闭）按钮/灯

按 COLOR OFF（彩色关闭）按钮，按钮灯点亮，屏幕变成黑白。只显示出亮度信号。

- 在按钮灯闪亮时，再按 COLOR OFF（彩色关闭）按钮，按钮灯灭掉，重新恢复正常屏幕。
- 使用此功能来确认亮度信号的干扰或是确保白色平衡。

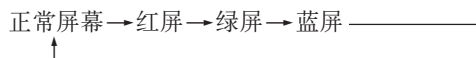
注：

此功能对 RGB 输入屏幕无效。

15 SCREENS CHECK（屏幕检查）按钮/灯

按 SCREENS CHECK（屏幕检查）按钮。按钮灯亮，屏幕按如下指令改变：

正常屏幕 → 红屏 → 绿屏 → 蓝屏



- 在显示蓝屏时按 SCREENS CHECK（屏幕检查）按钮。按钮灯灭掉，重新恢复正常屏幕。
- 使用此功能确认或调整 CHROMA（色度）或 PHASE（色相）。

注：

此功能对 RGB 输入屏幕无效。

16 ASPECT（宽高比）按钮/灯

在屏幕比率为4:3时按 ASPECT（宽高比）按钮，按钮灯亮，屏幕比率变为16:9。

- 在 ASPECT（宽高比）按钮灯亮时，再次按下，按钮灯灭，重新恢复正常屏幕。

注：此功能对 RGB 输入屏幕无效。

17 AREA MARKER（面积标志）按钮 / 灯

此按钮控制 AREA MARKER（面积标志）功能的 ON/OFF（开/关）。

- AREA MARKER（面积标志）功能包括 MARKER（标志），ZOOM（变焦），SAFETY AREA（安全区域）功能。详情请参阅第16页的“AREA MARKER”部分。
- 当 AREA MARKER（面积标志）设定为开启时，按钮灯点亮。

注：

- 当“AREA MARKER”设定为 OFF（关）时，此功能无效。
- “AREA MARKER”菜单的出厂预设值全部为 OFF。使用面积标志功能前，必须先改变“AREA MARKER”菜单的设置。详情请参阅第16页的“AREA MARKER”部分。
- 输入 RGB 信号时，此功能无效。
- 在 under-scan（缩扫描）模式下 ZOOM（变焦）功能无效。

18 INPUT SELECT（输入选择）按钮/灯

从监视器的插卡槽（SLOT（槽）1 - SLOT（槽）3）中已安装的输入卡中选择一种输入信号。

选择 SLOT（槽）1：按 A 或 B

选择 SLOT（槽）2：按 C 或 D

选择 SLOT（槽）3：按 E 或 F

➔ 输入终端和 INPUT SELECT（输入选择）按钮之间的对应关系请参阅第7-8页的输入卡使用说明部分。

- INPUT SELECT（输入选择）按钮和同一位置的输入信号灯对应。
- 改变输入后，新的输入状态会在屏幕上显示3秒钟。
- 按下点亮的 INPUT SELECT（输入选择）按钮，可再次显示当前输入状态。

■ 关于状态显示

显示当前输入选择和监视器设置信息。

INPUT C..... 已选择的输入
VIDEO（视频）..... 输入卡状态（*1）
NTSC..... 信号制式（*2）
HIGH..... “COLOR TEMP.（彩色色度）”的设置（*3）
EXT SYNC..... 外部同期（*4）

*1注

- 如果与所选的输入方式对应的输入卡没有安装到插槽上，屏幕显示“NO SLOT（无槽）”。
- 选择部件信号或 RGB 信号（从部件/RGB 输入卡输入）时，屏幕显示“COMP.”或“RGB”。
- 当 S-视频从 VIDEO（视频）2（INPUT SELECT（输入选择）B/D/F 输入时，屏幕显示“VIDEO（Y/C）”。

*2注

- 无视频信号输入时，屏幕显示“NO SYNC”。
- 当“SYNC SELECT（同步选择）”设置为“EXT（外部）”时，即使在输入视频信号时不输入同步信号，屏幕还是显示“NO SYNC”。详情请参阅第19页的“SYNC SELECT（同步选择）”部分。

*3注

关于“COLOR TEMP.（彩色色度）”设置的详情请参阅第20页的“COLOR TEMP.（彩色色度）”部分。

*4注

当“SYNC SELECT（同步选择）”设置为“INT.（内部同期）”时，屏幕不显示信息。详情请参阅第17页的“SYNC SELECT（同步选择）”部分。

■ 控制和性能 (续)

19 电源灯

- 未点亮：主电源 OFF (关闭) 时。
- 橙色：主电源 ON (打开)，但监视器电源 OFF (关闭) (处于待机模式) 时。
- 绿色：主电源 ON (打开)，监视器电源 ON (打开) (处于正常操作模式)。

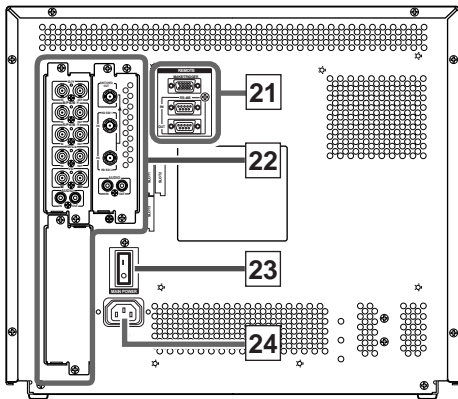
20 POWER (电源) 开关

在主电源 ON (打开) 时，按电源开关键 ON (打开) 或 OFF (关闭) 监视器电源。

注：
当设置功能表里的 RUSH DELAY TIME (冲击延时) 被设置为 SLOW (慢) 时，从按下电源开关到电源实际被接通需要花大约 3.2 秒钟。

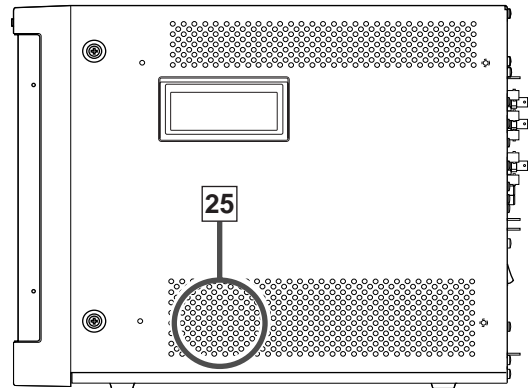
背视/侧视图

<背面板>



(DT-V1910CG 的后视图)

<侧面板>



(DT-V1910CG 的侧视图)

21 REMOTE (远程) (外部控制) 终端

从外部设备控制监视器的终端。

MAKE / TRIGGER (电路接通) 终端：

可以用连接到终端的电路 (接触点) 来控制监视器。

RS - 485 IN (输入) 终端：

可以通过串行通讯从个人电脑对监视器进行控制。

RS - 485 OUT (输出) 终端：

支持多级控制连接。数台监视器可以通过连接在 IN (输入) 终端的装置进行控制。

22 输入卡槽 (SLOT (槽) 1 - SLOT (槽) 3)

选购的输入卡可安装于这些插槽。在您购买监视器时不包括输入卡。

注：

在没有安装输入卡之前不能向监视器输入视频或音频信号。

23 主电源开关

按开关 ON (打开) 或 OFF (关闭) 主电源。在主电源 ON (打开) 时、前面板上的主电源指示灯为黄色、监视器进入待机模式。

• I : ON (开) O : OFF (关)

24 交流电输入口

电源输入连接器。将随机的交流电源接线连接到交流电输出口 (220 V AC, 50 Hz/60 Hz)。

* 使用本产品附带的电源线固定器以防止交流电源供电线突然断开。

➔ 详细内容请参照第 12 页。

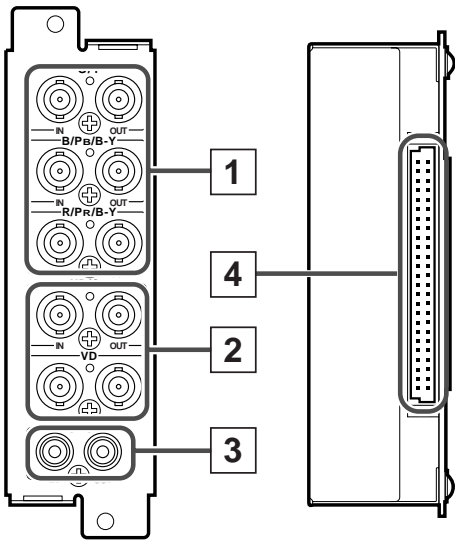
25 内置扬声器 (单声道)

输出所选取的 INPUT (输入) 音频信号。

控制和性能

(输入卡：选购)

分量 / RGB 输入卡 (选购：IF-C01COMG)



兼容信号格式：

480/60i, 576/50i, 576/50p, 480/60p, 720/60p,
1035/60i, 1080/50i, 1080/60i, 1080/24psF

1 分量/RGB信号输入/输出终端

分量或RGB信号的输入 (IN) 和输出 (OUT) 终端。

选择分量信号：按INPUT SELECT (输入选择) A (SLOT1) /C (SLOT2) /E (SLOT3)

选择RGB信号：按INPUT SELECT (输入选择) B (SLOT1) /D (SLOT2) /F (SLOT3)

* IN (输入) 和OUT (输出) 终端以跨接线形式连接 (自动终止)。

2 同步信号输入/输出终端

垂直、水平或合成同步信号的输入 (IN) 和输出 (OUT) 终端。

• 使用这些终端前，请把“SYNC SELECT (同步选择)”设置为“EXT (外部)”。

➔ 详情请参阅第19页的“SYNC SELECT (同步选择)”部分。

3 模拟音频信号的输入/输出终端

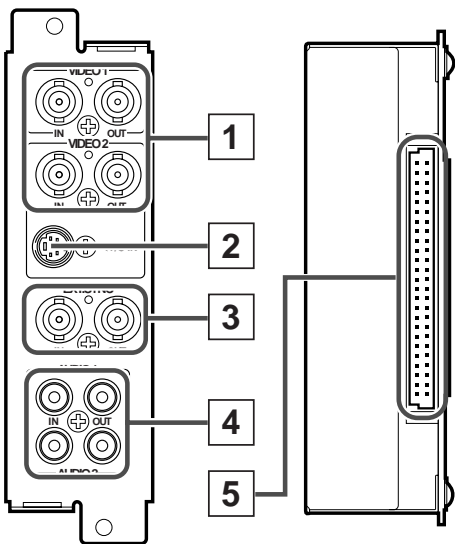
模拟音频信号的输入 (IN) 和输出 (OUT) 终端。

• IN (输入) 和OUT (输出) 终端以跨接线形式连接。

4 连接终端 (连接到多格式监视器)

用于连接您的多格式监视器的终端。

视频输入卡 (选购：IF-C01PNG)



兼容信号格式：

NTSC (3.58 MHz)、PAL (4.43 MHz)、
黑白 (50 Hz/60 Hz)

1 复合信号输入/输出终端 (MDEO (视频) 1, VIDEO (视频) 2)

NTSC, PAL制式或黑白 (50 Hz/60 Hz) 复合视频信号的输入 (IN) 和输出 (OUT) 终端。

➔ NTSC和PAL制式可在“COLOR SYSTEM (色彩系统)”菜单中切换。详情请参阅第19页的“COLOR SYSTEM (色彩系统)”。

选择VIDEO (视频) 1输入：按INPUT SELECT (输入选择) A (SLOT1) /C (SLOT2) /E (SLOT3) 按钮。

选择VIDEO (视频) 2输入：按INPUT SELECT (输入选择) B (SLOT1) /D (SLOT2) /F (SLOT3) 按钮。

* IN (输入) 和OUT (输出) 终端以跨接线形式连接 (自动终止)。

2 S-视频信号输入终端 (仅适用于VIDEO (视频) 2)

S-视频信号的输入终端。

• 有S-视频信号输入此终端时，如果另有视频信号输入VIDEO (视频) 2终端，此时S-视频信号比视频信号优先。

3 同步信号输入/输出终端 (适用于VIDEO (视频) 1和VIDEO (视频) 2)

复合同步信号的输入 (IN) 和输出 (OUT) 终端。

➔ 使用这些终端前，请把“SYNC SELECT (同步选择)”设置为“EXT (外部)”。

详情请参阅第19页的“SYNC SELECT (同步选择)”部分。

注：

• 当有外部同步信号输入时，VIDEO (视频) 1和VIDEO (视频) 2都是外部同步优先。

• 当复合同步信号中含有视频信号 (除了黑色脉冲信号) 时，外部同步功能无效。

4 音频输入/输出终端 (适用于MDEO (视频) 1和MDEO (视频) 2)

和VIDEO (视频) 1和VIDEO (视频) 2对应的模拟音频信号的输入 (IN) 和输出 (OUT) 终端。

• 输入 (IN) 和输出 (OUT) 终端以跨接线形式连接。

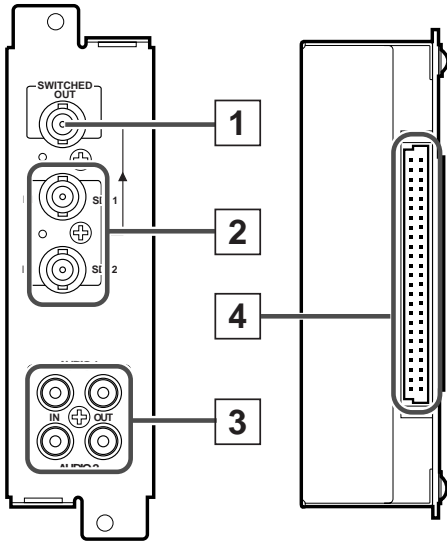
5 连接终端 (连接到多格式监视器)

用于连接您的多格式监视器的终端。

控制和性能

(输入卡：选购)(续)

SDI输入卡 (选购：IF-C01SDG)



兼容信号格式：
480/60i, 576/50i

1 切换输出终端

Reclock后的信号输出(OUT)终端。来自SDI1或SDI2(使用INPUT SELECT(输入选择)按钮进行选择)的输入信号通过此终端进行Reclock和输出。

注：

- 即使输入信号从SDI输入卡切换过来，SWITCHED OUT(切换输出)终端还会输出SDI1或SDI2 Reclock信号(最后选择的一方)。
- 当监视器处在关闭状态或待机状态时，SWITCHED OUT(切换输出)终端不输出如何信号。

2 D1 SDI信号输出终端(SDI1, SDI2)

接收SMPTE259M D1 SDI兼容信号(分量SDI信号)。

选择SDI1输入：按INPUT SELECT(输入选择)A(SLOT1)/C(SLOT2)/E(SLOT3)按钮。

选择SDI2输入：按INPUT SELECT(输入选择)B(SLOT1)/D(SLOT2)/F(SLOT3)按钮。

注：

不兼容EMBEDDED AUDIO(内置音频)。

3 音频信号输入/输出终端(对应SDI1和SDI2)

模拟音频信号的输入(IN)和输出(OUT)终端。

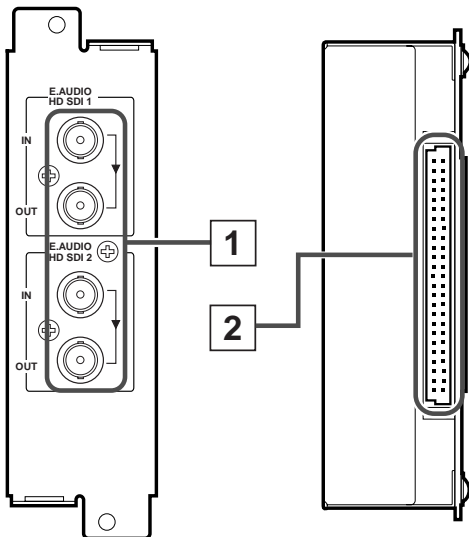
- 输入(IN)和输出(OUT)终端以跨接线形式连接。

4 连接终端(连接到多格式监视器)

用于连接您的多格式监视器的终端。

HD SDI输入卡(选择：IF-C12HSDG)

兼容EMBEDDED AUDIO(内置音频)



兼容信号格式：720/60p, 1080/50i, 1080/60i, 1035/60i, 1080/24psF, EMBEDDED AUDIO(嵌入式音频)

1 HD SDI信号输入/输出终端(HD SDI 1, HD SDI 2)

HD SDI信号输入(IN)/输出(OUT)终端(分量HD SDI信号)

此卡还支持48 KHz(千赫)样本频率EMBEDDED AUDIO(内置音频)信号和1-8频道。

→ EMBEDDED AUDIO(内置音频)输出频道由此监视器控制。

详情请参照第4页的“EMBEDDED AUDIO(内置音频)频道开关按钮”。

选择HD SDI1输入：按INPUT SELECT(输入选择)A(SLOT1)/C(SLOT2)/E(SLOT3)按钮。

选择HD SDI2输入：按INPUT SELECT(输入选择)B(SLOT1)/D(SLOT2)/F(SLOT3)按钮。

输出终端

Reclock后的HD SDI 1和/或HD SDI 2输入信号通过HD SDI 1和/或HD SDI 2(OUT)终端输出。

注：

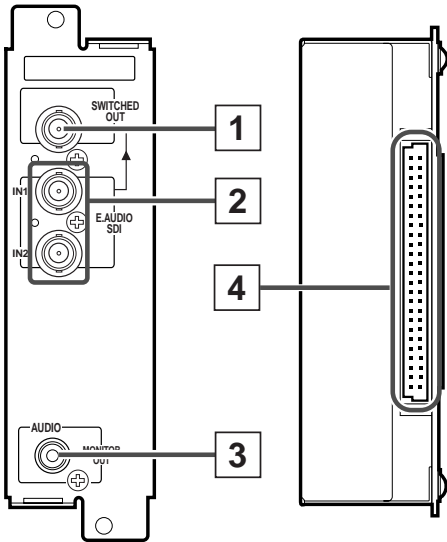
- 监视器电源OFF(关闭)或处于待机状态时OUT(输出)终端不能输出信号。

2 连接终端(连接到多格式监视器)

用于连接到您的多格式监视器的终端。

SDI 输入卡 (IF-C21SDG/IF-C51SDG)

兼容EMBEDDED AUDIO (内置音频) 和AUTO INPUT (自动输入) (SDI 输入卡 IF-C51SDG 配置了AUDIO LEVEL METER (音频电平表) 功能)



兼容信号格式：
480/60i, 576/50i,
EMBEDDED AUDIO (内置音频)

1 SWITCHED OUT (切换输出) 终端

重锁定信号输出 (OUT) 终端。

→ 当前选定的输入信号从此终端输出。

注：

- 当输入信号从SDI输入卡切换过来时，SWITCHED OUT (切换输出) 终端仍输出此输入卡最后选定的输入信号。
- 当显示器关闭或处于待机模式时，SWITCHED OUT (切换输出) 终端不输出信号。

2 D1 SDI和EMBEDDED AUDIO (内置音频) 信号输入终端

D1 SDI信号 (D1 分量SDI信号) 输出终端兼容SMPTE259M。

此卡还支持48 kHz (千赫) 采样频率EMBEDDED AUDIO (内置音频) 信号和1至8频道。

→ EMBEDDED AUDIO (内置音频) 频道可以通过此监视器控制。请参照第4页“EMBEDDED AUDIO (内置音频) 频道切换按钮”。

选择IN1输入：按INPUT SELECT (输入选择) A (SLOT1) /C (SLOT2) /E (SLOT3) 按钮。

选择IN2输入：按INPUT SELECT (输入选择) B (SLOT1) /D (SLOT2) /F (SLOT3) 按钮。

3 音频输出终端

解码为模拟信号的EMBEDDED AUDIO (内置音频) 信号的输出终端。

→ 此终端输出的音频与扬声器监测到的输入和频道一致。

注：

- 监测其他输入卡的输入时，终端输出此卡中最后选定的输入音频信号和当时选定的音频频道。
- 监视器电源关闭或处于待机模式时，音频输出终端不能输出信号。

4 连接终端

将连接终端连接到您的多格式监视器的插槽上。

注：

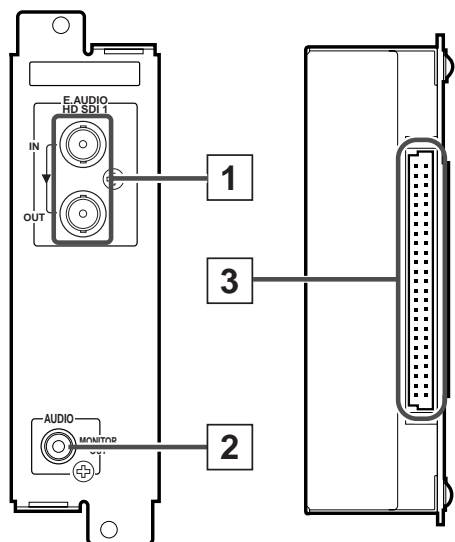
- 请勿碰触靠近连接终端处的双列开关。

● 请参考第19页上“**AUTO INPUT (自动输入)**”章节，了解**AUTO INPUT (自动输入)**功能。

● 请参考第22页上“**STATUS DISPLAY (状态显示)**”章节，了解**EMBEDDED AUDIO LEVEL METER (内置音频电平表)**功能。(仅限于IF-C51SD型号)

HD SDI INPUT CARD (HD SDI 输入卡) (IF-C21HSDG/IF-C51HSDG)

可兼容EMBEDDED AUDIO (内置音频) 和AUTO INPUT (自动输入)
(HD AD SDI输入卡IF-C51HSDG装备有AUDIO LEVEL METER (音频电平表) 功能)



兼容信号格式：
720/60p, 720/50p, 1080/60i,
1035/60i, 1080/24psF,
EMBEDDED AUDIO (内置音频)

1 HD SDI 信号输入/输出终端 (HD SDI1)

HD SDI 信号 (分量HD SDI信号) 的IN (输入) /OUT (输出) 终端。
此卡还支持48kHz (千赫) 采样频率EMBEDDED AUDIO (内置音频) 信号和1至8频道。

→ EMBEDDED AUDIO (内置音频) 频道可以通过此监视器控制。参照第4页“EMBEDDED AUDIO (内置音频) 频道切换按钮”。

选择HD SD1输入：按下INPUT SELECT (输入选择) A (SLOT1) / C (SLOT2) / E (SLOT3) 按钮。

OUT (输出) 终端：重锁定的输入信号从HD SDI1 OUT终端输出。

注：

- 监视器电源关闭或处于待机模式下，从OUT (输出) 终端不能输出信号。

2 音频输出终端

解码为模拟信号的EMBEDDED AUDIO (内置音频) 信号的输出终端。

→ 此终端输出的音频与扬声器监测到的输入和频道一致。

3 连接终端

将连接终端连接到您的多格式监视器的插槽上。

注：

- 请勿碰触靠近连接终端处的双列开关。

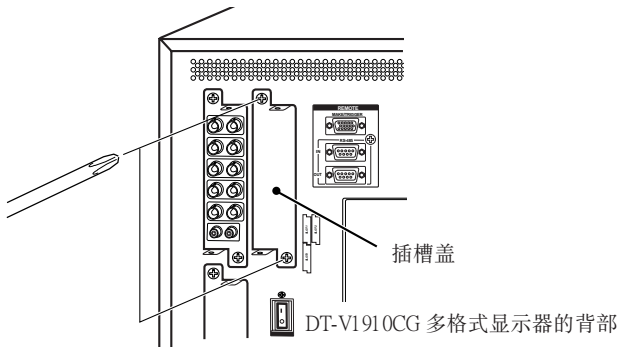
- 请参考第19页上“AUTO INPUT (自动输入)”章节，了解AUTO INPUT (自动输入) 功能。
- 请参考第22页上“STATUS DISPLAY (状态显示)”章节，了解EMBEDDED AUDIO LEVEL METER (内置音频电平表) 功能。(仅限于IF-C51HSDG型号)

准备工作

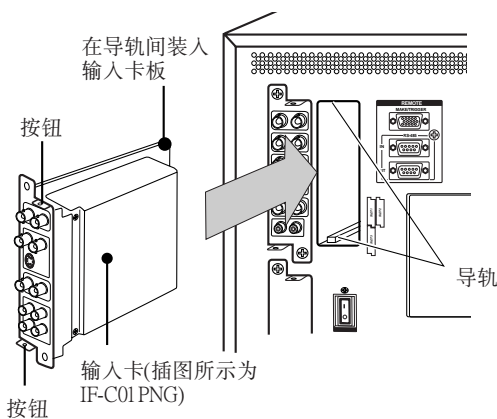
■ 安装输入卡

使用本监视器必须选购输入卡。在安装监视器或把其它设备连接到监视器之前，务必首先安装好输入卡。

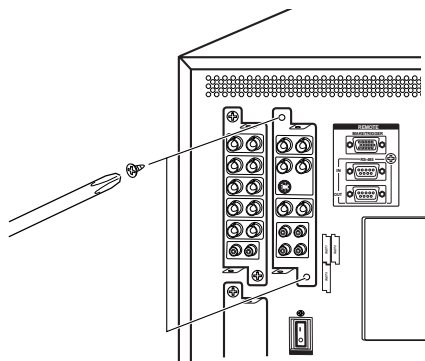
1. 关闭多格式监视器的电源，从交流电源输出拔去电源电缆。
2. 卸下螺丝并卸开您要安装输入卡的插槽盖（位于显示器背部）。



3. 把输入卡板（绿色）插入插槽，使其正好卡在插槽的上下导轨之间。



4. 推进输入卡，让它的前面板碰到监视器的后面板。
5. 重新装好在第2步中卸下的螺丝，紧固输入卡。



注：

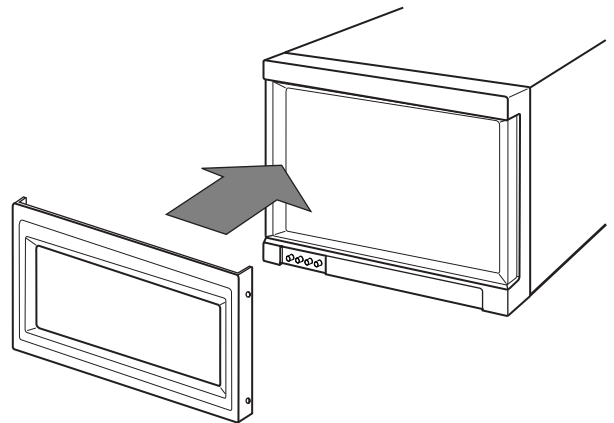
- 不要碰触连接到监视器或板卡的终端。
- 在不使用时，不要把插槽盖卸下。

■ 安装宽屏护罩

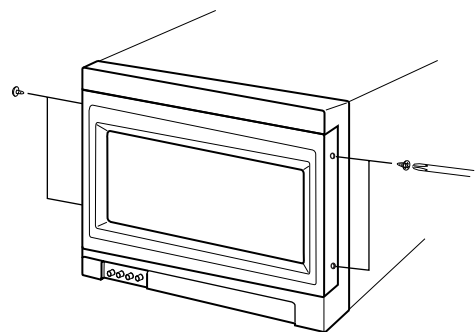
宽屏护罩随监视器一起提供。它可以改变观赏屏幕区域的外形比率为16:9。

- 在监视器装成以后不能安装宽屏护罩。所以请在监视器装成以前预先安装好。

1. 准备好宽屏护罩和4个螺丝（用于装配）。
2. 把宽屏护罩紧贴于显示器上。



3. 用螺丝（左右各2个）紧固宽屏护罩。



- 要卸下宽屏护罩，遵照以上相反步骤程序。

注意：

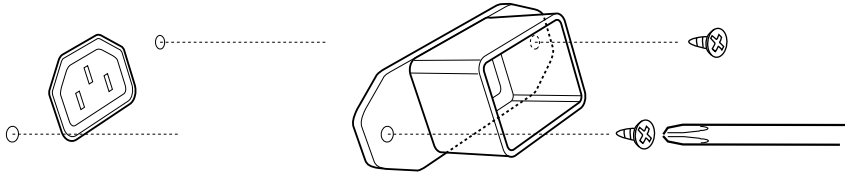
只能使用配备的螺丝钉。

准备工作 (续)

安装电源线固定器

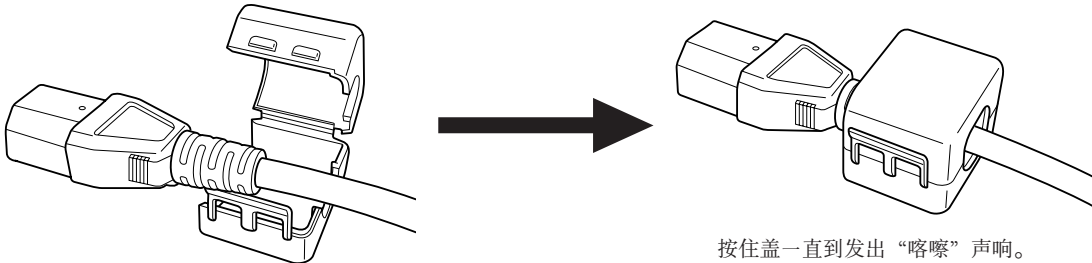
- 本产品自带的电源线固定器用于防止交流供电线突然从交流电源输入孔脱开。
- 电源线固定器包括2个部件：盒子和盖。

1. 把电源线固定器盒用2个螺丝钉（附件）安装到监视器背面的交流输入孔。



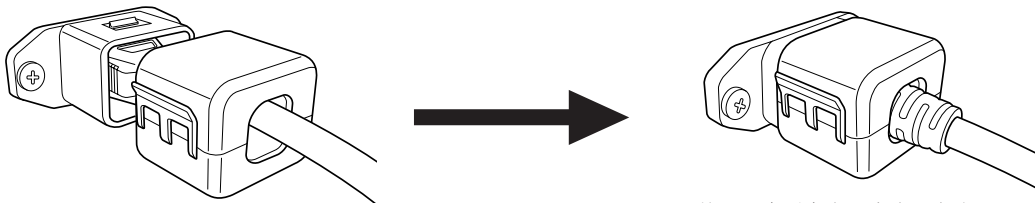
2. 把电源线固定器盖安装到交流供电线上。

注意：
只能使用配备的螺丝钉。



按住盖一直到发出“喀嚓”声响。

3. 把交流供电线插入交流电源输入孔，并把电源线固定器盖套在固定器上。



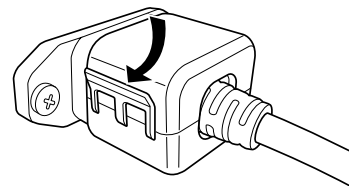
按下一直到发出“喀嚓”声响。

警告：

- 插头形状不一致，可能导致连接固定器盖出错。
- 务必检查，安装完毕后请确认插头未被从固定器盖拔出。

注意：

想要断开电源，请按键钮，打开盒盖。



基本菜单操作

(主菜单, 设置菜单)

关于菜单屏幕

- 监视器提供一个 MAIN MENU (主菜单) (主菜单屏幕) 和 SETUP MENU (设置菜单) (设置菜单屏幕)。
- MAIN MENU (主菜单) 包含常用的功能, SETUP MENU (设置菜单) 包含初始设置需要的设置功能。

“MAIN MENU (主菜单)”

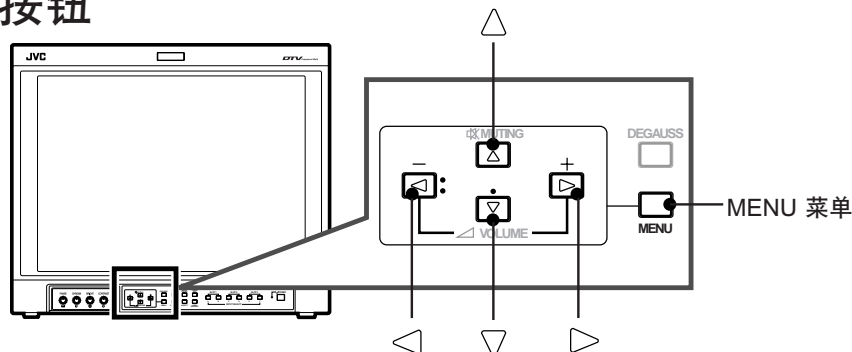
项目	功能	显示
1 APERTURE CONTROL (缝隙控制)	补偿输入视频信号的频率特征。	*1
2 SLOT CONDITION (槽状态)	显示安装在输入卡插槽的输入卡状态。	
3 sub menu POSITION (副菜单位置)	选择叠印在屏幕上的副菜单显示位置。	
4 AREA MARKER (面积标记)	控制包含在 AREA MARKER (面积标记) 功能中的 MARKER (标记), SAFETY MARKER (安全标记), 和 ZOOM (变焦) 功能的 ON/OFF (开/关) 以及其他设置。	*2
5 COLOR MATRIX (色彩基质)	选择或调整图像色彩基质。	*1

关于“显示” * 1 : 在输入 RGB 信号时不显示。
 * 2 : 只有在屏幕比率为 16:9 时才显示。在输入 RGB 信号时不显示。
 由于输入信号而不显示某些项目时, 后面的项目会提前。
 菜单的位置根据输入信号的种类不同而异。

“SETUP MENU (设置菜单)”

项目	功能
1 FUNCTION SETTING (功能设置)	选择 COLOR SYSTEM (色彩系统) 的控制方式, 同步信号, RUSH DELAY TIME (冲击延迟信号), 计测灯色彩和 MAKE/TRIGGER (接通/触发) 的控制方式。 * 确认监视器合计使用时间。 * 设置 AUTO INPUT (自动输入) 功能的 ON/OFF (开/关) (已安装 AUTO INPUT (自动输入) 功能兼容输入卡时)。 * 选择 EMBEDDED AUDIO (内置音频) 的音频频道组 (已安装 EMBEDDED AUDIO 功能兼容输入卡时)。
2 PICTURE SUB ADJ. (图像副调整)	当视频调整按钮调到中央时, 用于控制视频调节水平的粗调整。 * 亦可用于切换 NTSC 设置值或改变部件信号输出水平。
3 COLOR TEMP. (色温) / BAL. (平衡)	设置或调整色温或白色平衡。
4 SIZE (尺寸) / POSI. ADJ. (位置调整)	调整图像的尺寸或位置。
5 DISTORTION ADJ. (失真调整)	补偿图像失真。
6 STATUS DISPLAY (状态显示)	设置状态显示的 ON/OFF (开/关)。 * 设置显示的 ON/OFF (开/关)。亦可选择显示类型。(已安装 AUDIO LEVEL METER (音频电平表) 功能兼容输入卡时)。 * 改变 AUDIO PLL (音频锁相环) 设置 (已安装 EMBEDDED AUDIO (内置音频) 功能兼容的 SDI 输入卡时)。
7 CONTROL LOCK (控制锁定)	设置控制锁定避免监视器误使用。
8 all reset (所有重新设置)	把 SETUP MENU (设置菜单) 上的所有项目全部设置为出厂预设值。

菜单操作按钮



基本菜单操作

(主菜单, 设置菜单)(续)

显示菜单屏幕

显示 MAIN MENU (主菜单)

按前面板上的MENU (菜单) 按钮。

显示 SETUP MENU (设置菜单)

按住前面板上的 ◀ 按钮的同时按 ▽ 按钮。

注:

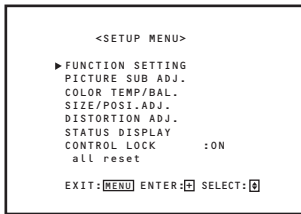
- 按下MENU (菜单) 按钮数秒钟可退出菜单。
- 最后的操作结束后, MENU (菜单) 还会自动显示约30秒钟。
- 按下MENU (菜单) 可退回上一个MENU (菜单) 画面。

菜单操作方法

例: 把“BRIGHT (亮度)”值调节至“+10”。

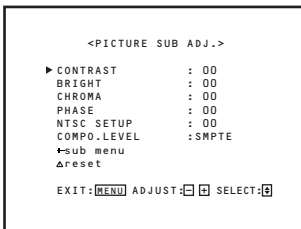
1. 同时按 ◀ 和 ▽ 按钮。

屏幕上显示“SETUP MENU (设置菜单)”。



2. 按下 ▽ 按钮, 然后按 ▷ 按钮, 选择“PICTURE SUB ADJ. (图像副调整)”。

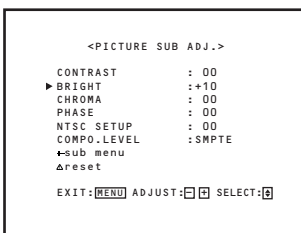
屏幕显示 PICTURE SUB ADJ. (图像副调整)。



3. 按下 ▽ 按钮选择“BRIGHT (亮度)”。

4. 按 ◀ 和 ▷, 直到调整至所需的亮度。

例: 把亮度值调节至“+10”。



5. 按下MENU (菜单) 按钮数秒钟, 关闭“SETUP MENU (设置菜单)”。

关于“+sub menu (副菜单)”

只显示所选项目。(显示sub menu)使您可以一边看著当前的画面一边调节和设置项目。

注:

- 此功能仅在屏幕上显示“+sub menu (副菜单)”时有效。

例: 在sub-menu (副菜单) 中设置“PICTURE SUB ADJ. (图像副调整)”中的项目。

1. 同时按 ◀ 和 ▽ 按钮。

屏幕上显示“SETUP MENU (设置菜单)”。

2. 按下 ▽ 按钮, 然后按 ▷ 按钮, 选择“PICTURE SUB ADJ. (图像副调整)”。

3. 按 ▽ 按钮数秒钟, 然后按 ▷ 按钮选择“+sub menu (副菜单)”。

调节杆显示在屏幕底部或顶部。

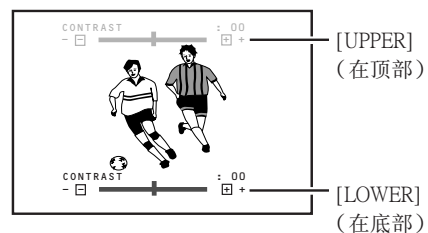
4. 按下 △ 按钮和 ▽ 按钮 (数秒钟) 选择所需项目。

5. 按 ◀ 和 ▷ 按钮, 直到调整至所需值。

- 关闭显示中的sub-menu (副菜单):

按下前面板上的MENU (菜单) 按钮。

- 恢复前一步的MENU (菜单) 画面。
- 改变sub-menu (副菜单) 的显示位置
 - 按下“MENU (菜单)”显示“MAIN MENU (主菜单)”。
 - 按 ▽ 按钮数秒钟, 选择“sub menu POSITION (副菜单位置)”。
 - 按 ◀ 和 ▷ 按钮, 设置“UPPER (在顶部)”或“LOWER (在底部)”。



显示菜单屏幕

把(当前显示的)MENU (菜单)的所有设置恢复为出厂预设值。

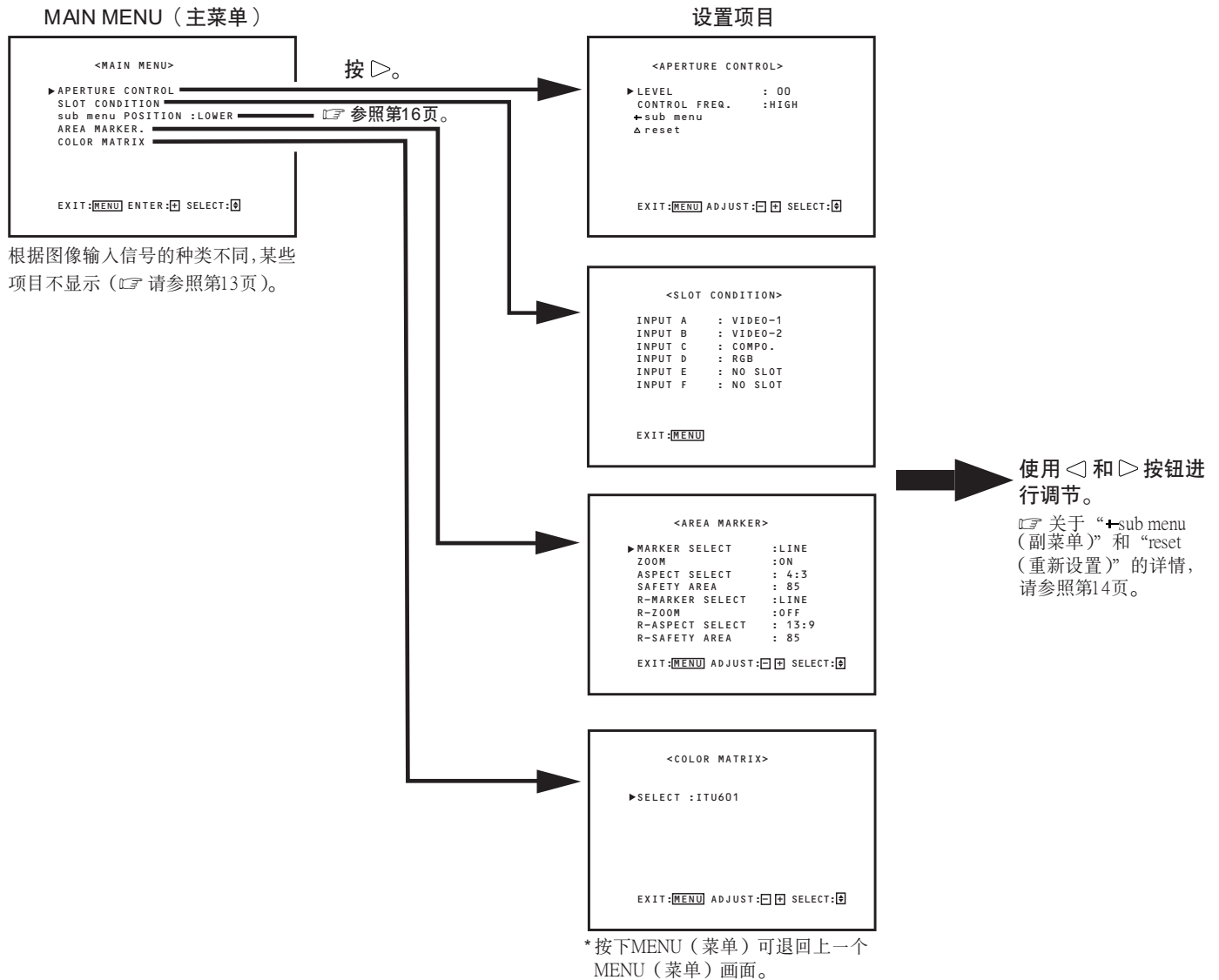
使用 △ / ▽ 按钮选择“reset (重新设置)”, 然后按 ▷ 按钮。

注:

- 此功能仅在“reset (重新设置)”显示在MENU (菜单) 画面上时有效。

■ 如何使用 “MAIN MENU (主菜单)”

■ “MAIN MENU (主菜单)” 屏幕



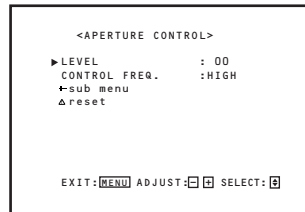
■ 如何使用“MAIN MENU（主菜单）”（续）

■ 项目内容和调整范围 / 设置

APERTURE CONTROL（缝隙控制）

补偿输入视频信号的频率特征。

按▷按钮显示如右插图所示的设置菜单。



■ LEVEL（水平）

调整补偿值数值越高，补偿值越高。

• 00~+10

■ CONTROL FREQ.（控制频率）

调整频率补偿。

HIGH（高）：补偿高频率

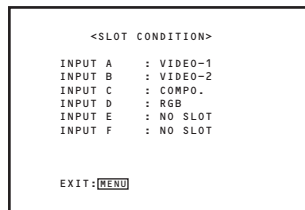
LOW（低）：补偿低频率

OFF（关）：解除缝隙补偿

SOLT CONDITION（槽状态）

显示安装在输入卡插槽的输入卡状态。

按▷按钮显示如右插图所示的设置菜单。



INPUT（输入）A/INPUT（输入）B：
SLOT（槽）1的状态

INPUT（输入）C/INPUT（输入）D：
SLOT（槽）2的状态

INPUT（输入）E/INPUT（输入）F：
SLOT（槽）3的状态

VIDEO（视频）-1/MDEO（视频）-2：
必须事先安装VIDIEO（视频）输入卡。

COMP./RGB：必须事先安装分量/RGB输入卡。

SDI1/SDI2：必须事先安装SDI输入卡。

HD SDI1/HD SDI2：必须事先安装HD SDI输入卡。

注：

- 如果输入卡和EMBEDDED AUDIO（内置音频）兼容，此项目名后显示星号（*）。（例：HD SDI*）
- 如果输入卡和EMBEDDED AUDIO（内置音频）以及AUDIO LEVEL METER（音频电平表）都兼容，此项目名后显示两个星号（**）。（例：HD SDI**）
- 可能显示“-”指示。这表示未安装输入卡或输入卡只有一条输入电缆，对应的INPUT（输入）没有信号输入。

副菜单POSITION（位置）

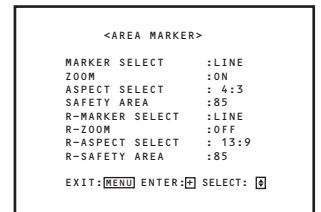
选择添加在屏幕上的副菜单的位置。

➡ 详情请参照第14页的“改变sub-menu（副菜单）的显示位置”。

AREA MARKER（面积标记）

控制包含在AREA MARKER（面积标记）功能中的MARKER（标记），SAFETY MARKER（安全标记），和ZOOM（变焦）功能的ON/OFF（开/关）以及其他设置。

按▷按钮显示如右插图所示的设置菜单。



注：

- 在4:3比率模式下，只显示SAFETY MARKER（安全标志）和R-SAFETY MARKER（R-安全标志）。
- 按前面板上的AREA MARKER（面积标志）设置不带“R-”的项目。此时不能使用外部控制方式。
- 通过外部控制把AREA MARKER（面积标志）功能设为ON（开）后，可设置带“R-”的项目。
- 通过MAKE/TRIGGER（接通/触发）终端对AREA MARKER（面积标志）功能进行外部控制。请注意只有按下前面板上的AREA MARKER（面积标志）按钮（AREA MARKER灯点亮）才能使用此功能。详情请参照第23页的“如何使用MAKE/TRIGGER（接通/触发）终端”。

■ MARKER SELECT/R-MARKER SELECT（标志选择/R-标志选择）

根据在ASPECT SELECT/R-ASPECT SELECT（外观选择/R-外观选择）中设置的值，显示外观比率的区域，添加在当前屏幕上。

OFF（关）：MARKER（标志）功能无效。

LINE（线）：显示带轮廓的区域。

S.HALF：超出指定屏幕比率的区域以50%透明显示。

HALF+L：指定屏幕比率内的区域以轮廓线标识，超出此区域部分用50%透明显示。

S·BLK：指定屏幕比率外的区域以黑色显示。只显示指定区域内的图像。

BLK.+L：指定屏幕比率的区域以轮廓线标识，超出此区域部分用黑色显示，因此只显示出轮廓线内的区域。

■ ZOOM/R-ZOOM（变焦/R-变焦）

对已做标志的区域中心变焦。

OFF（关）：不变焦

ON（开）：变焦

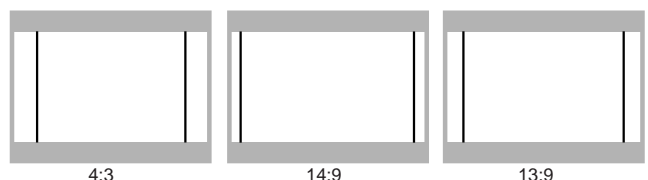
注：

- 在进行缩扫瞄时此功能无效。
- 关于如何调整变焦图像尺寸，请参考第19页的“ZOOM V.SIZE（变焦垂直尺寸）”和“ZOOM H.SIZE（变焦水平尺寸）”。

■ ASPECT SELECT/R-ASPECT SELECT（外观选择/R-外观选择）

选择屏幕外观比率。

- 4:3/13:9/14:9



■ SAFETY AREA/R-SAFETY AREA (安全区域/R-安全区域)

以虚线表示80%，88%或90%屏幕尺寸(外观比率在“ASPECT SELECT/R-ASPECT SELECT中设置”)的对应范围。

OFF : SAFETY AREA (安全区域)功能无效。

90% : 屏幕比率为16:9,标识其90%领域。

88% : 屏幕比率为16:9,标识其88%领域。

80% : 屏幕比率为16:9,标识其80%领域。

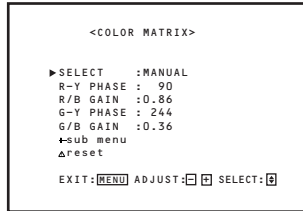
注 :

- 如果输入图像的屏幕比率为4:3,则以4:3显示SAFETY AREA (安全区域)。
- 当输入图像的屏幕比率为16:9时,如欲以16:9显示SAFETY AREA (安全区域),则需要把MARKER SELECT/R-MARKER SELECT (标志选择/R-标志选择) 设为OFF (关)。(此时ASPECT SELECT (外观设置)中的设置无效。)

COLOR MATRIX (色彩基质)

选择或调整色彩检波(著色)标准。

按▷按钮显示如右插图所示的设置菜单。



选择 MANUAL (人工设置) 时菜单屏幕

- 根据输入信号格式,标准设置应设置为“ITU601”或“ITU709”
出厂预定 MANUAL (人工设置) 为 ITU709

输入信号格式	标准设置	人工设置 (MANUAL)
NTSC, PAL, 480/60i, 480/60p, 576/50i, 575/50p	ITU601	ITU709
720/60p, 1080/50i, 1080/60i, 1035/60i, 1080/24psF	ITU709	

■ SELECT (选择)

选择图像基质标准。

ITU601 或 ITU709 : 标准设置

MANUAL (人工设置) : 人工设置

注 :

选择 MANUAL (人工设置) 时显示以下项目。选择 ITU601 或 ITU709 时,则不会显示。

■ R-Y PHASE (相)

设置 R-Y 相

- 90/92/94/112

■ R/B GAIN (增益)

设置 R/B 增益

- 0.86/0.56/0.68/0.79

■ G-Y PHASE (相)

设置 G-Y 相

- 244/253/236/240

■ G/B GAIN (增益)

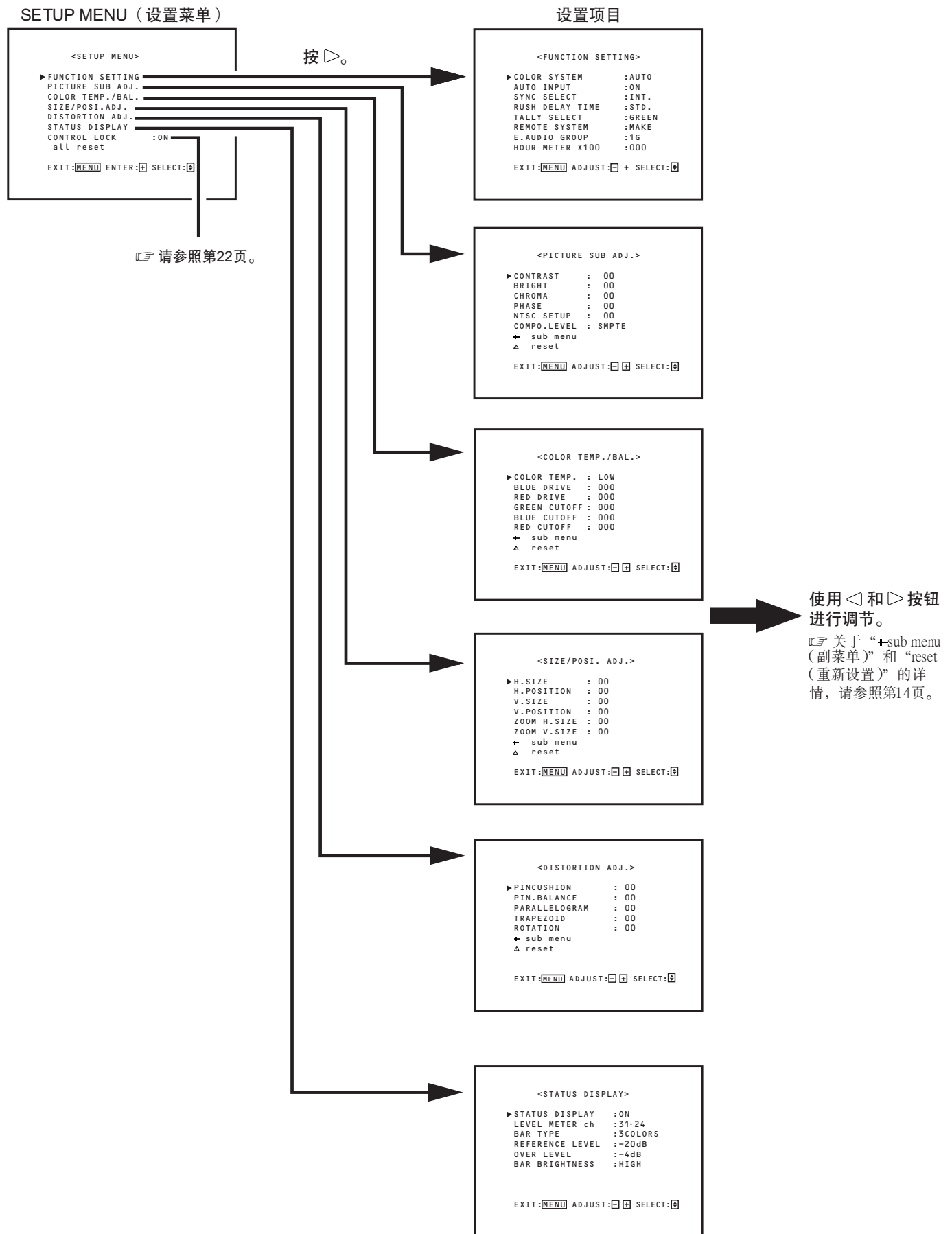
设置 G/B 增益

- 0.30/0.34/0.40/0.45

ITU601	R-Y PHASE	90
	R/B GAIN	0.79
	G-Y PHASE	244
	G/B GAIN	0.45
ITU709	R-Y PHASE	90
	R/B GAIN	0.86
	G-Y PHASE	244
	G/B GAIN	0.30

■ 如何使用“SETUP MENU（设置菜单）”

■ “SETUP MENU（设置菜单）” 屏幕



•按下MENU（菜单）可退回上一个MENU（菜单）画面。

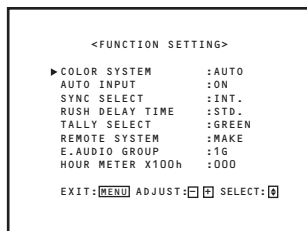
项目内容和调整范围 / 设置

FUNCTION SETTING (功能设置)

选择COLOR SYSTEM (色彩系统) 的控制方式, 同步信号, RUSH DELAY TIME (冲击延迟信号), 计测灯色彩和MAKE/TRIGGER (接通/触发) 的控制方式。

- 确认监视器合计使用时间。
- 设置AUTO INPUT (自动输入) 功能的ON/OFF (开/关) (已安装AUTO INPUT (自动输入) 功能兼容输入卡时)。
- 选择EMBEDDED AUDIO (内置音频) 的音频频道组 (已安装EMBEDDED AUDIO功能兼容输入卡时)。

按▷按钮显示如右插图所示的设置菜单。



COLOR SYSTEM (色彩系统)

在使用视频输入卡时选择色彩系统。

- AUTO (自动) : 自动改变 NTSC 和 PAL。
- NTSC : 保持色彩系统为 NTSC。
- PAL : 保持色彩系统为 PAL。

注:

一般选择 AUTO (自动)。然后, 如果输入信号不稳定, 请选择 NTSC 或是 PAL。

AUTO INPUT (自动输入)

当需要用一条信号电缆把HD SDI信号和DI SDI信号切换到输入时, AUTO INPUT (自动输入) 会自动选择信号是从Input A (HD SDI输入卡) 还是从Input C (SDI输入卡) 输入, 并由此自动切换INPUT (输入)。

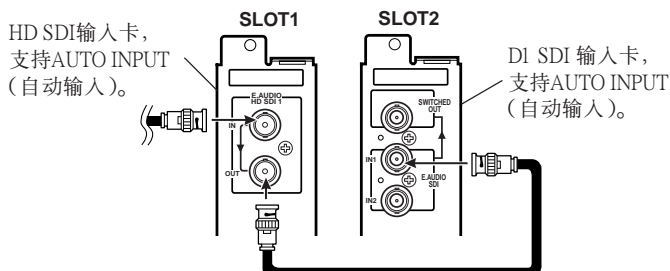
- ON (开) : AUTO INPUT (自动输入) 有效。
- OFF (关) : AUTO INPUT (自动输入) 无效。

注:

- 仅在使用与AUTO INPUT (自动输入) 功能兼容的输入卡时才有效。
- 如果不同的信号电缆同时和INPUT (输入) A及INPUT (输入) B连接, 并同时向两个终端输入信号, 会提示“INPUT SELECT ERROR (输入选择出错)”的信息约3秒钟。

使用AUTO INPUT (自动输入) 功能前的准备 (参照下面的插图)

1. 把HD SDI输入卡插入SLOT (槽) 1, 然后把SDI输入卡插入SLOT (槽) 2 (两种卡都必须与AUTO INPUT功能兼容), 然后接上信号电缆。
2. 把HD SDI信号或DI SDI信号输入HD SDI输入卡。



SYNC SELECT (同步选择)

选择同步信号的检测方法。

- INT. : 输入视频信号一直与装置本身内藏的同步信号保持同步。
- EXT. : 如果有同步信号从外置同步信号终端输入, 输入视频信号会与其同步。

RUSH DELAY TIME (冲击延时)

在打开电源开关, 向监视器电路 (不包括电脑) 供电时设置时间。

- STD. (标准) : 在按电源开关后约1秒供电开始。
- SLOW (慢速) : 在按电源开关后约3.2秒供电开始。

注:

如果您想要同时打开几台多格式监视器时, 建议您在打开其中几台监视器使用SLOW (慢速延时), 以控制瞬间高峰电流。

TALLY SELECT (测量选择)

选择前面板上部计数灯的颜色 (点亮时)。

- GREEN : 计数灯点亮显示绿色。
- RED : 计数灯点亮显示红色。

REMOTE SYSTEM (远端选择)

从MAKE/TRIGGER终端选择控制方式。详情请参照第23页的“如何使用MAKE/TRIGGER (接通 / 触发) 终端”。

- MAKE (接通) / TRIGGER (触发)。

E.AUDIO GROUP (内置音频组)

选择EMBEDDED AUDIO (内置音频) 的音频频道组。已安装兼容EMBEDDED AUDIO (内置音频) 功能的输入卡时会显示此项目。

1G/2G/1-2G

- 1G : 1ch → 2ch → 3ch → 4ch → 1-2ch → 3-4ch → 1-4ch
- 2G : 5ch → 6ch → 7ch → 8ch → 5-6ch → 7-8ch → 5-8ch
- 1-2G : 1ch → 2ch → 3ch → 4ch → 5ch → 6ch → 7ch → 8ch → 1-2ch → AUTO → 5-8ch → 1-4ch → 7-8ch → 5-6ch → 3-4ch

注:

自动设定混合, 并输出8个信号的全频道。根据收到信号的频道数, 自动设置输出水平。

* 关于声音输出等级

在多个声音频道同时输出时, 声音输出等级自动设定在全频道标准输出等级上。选择的频道越多, 其中各个频道等级就越低。(在1-2频道时各个频道等级减半, 在1-4频道时变成1/4。)

HOUR METER (时间表) X100 h (小时)

以百小时为单位显示监视器的总使用时间。

- 000 ~ 655

注:

- 当计时器超过655时, 它会回到000。
- 一小时以下计时器不记录。

■ 如何使用“SETUP MENU（设置菜单）”（续）

PICTURE SUB ADJ.（图像副调整）

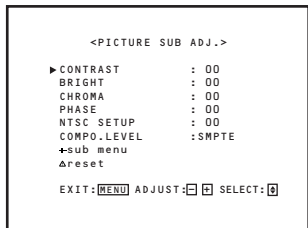
当视频调整按钮调到中央时，用于控制视频调节水平的粗调整。

- 亦可用于切换NTSC设置值或改变分量信号输出水平。

按▷按钮显示如右插图所示的设置菜单。

注：

当RGB信号输入时，只显示CONTRAST（对比度）和BRIGHT（明亮度）。当PAL信号输入时，只显示CONTRAST（对比度）/BRIGHT（明亮度）和CHROMA（色度）。

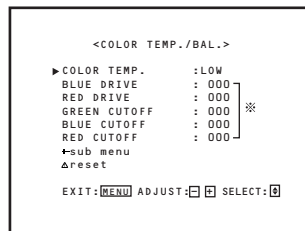


COLOR TEMP.（彩色色度）/BAL.（平衡）

设置或调整彩色色度和白色平衡。

如右插图所示、按▷按钮显示设置菜单。

- 使用标有※标志的5个项目把监视器调整到良好状态。



■ COLOR TEMP.（色温）

选择色温。

HIGH（高）：把色温设置为9300。

LOW（低）：把色温设置为6500。

■ BLUE DRIVE（蓝色驱动器）

调整蓝色驱动器级别。

- MIN（最小）~ 000 ~ MAX（最大）（有127级）

■ RED DRIVE（红色驱动器）

调整红色驱动器级别。

- MIN（最小）~ 000 ~ MAX（最大）（有127级）

■ GREEN CUTOFF（绿色中止）

设置绿色中止点。

- MIN（最小）~ 000 ~ MAX（最大）（有205级）

■ BLUE CUTOFF（蓝色中止）

设置蓝色中止点。

- MIN（最小）~ 000 ~ MAX（最大）（有205级）

■ RED CUTOFF（红色中止）

设置红色中止点。

- MIN（最小）~ 000 ~ MAX（最大）（有205级）

■ CONTRAST（对比度）

- -20 ~ 00 ~ +20

■ BRIGHT（明亮度）

- -20 ~ 00 ~ +20

■ CHROMA（色彩）

- -20 ~ 00 ~ +20

■ PHASE（色相）

- -20 ~ 00 ~ +20

■ NTSC SETUP（设置）

设置NTSC输入信号的设定值。

00 : 符合0%设置信号

7.5 : 符合7.5%设置信号

注：

只有在安装了视频输入卡，并且有NTSC信号输入时，才显示NTSC SETUP（设置）。

■ COMPO.LEVEL（分量级别）

设置部件输入信号的设定值。

SMPTE : 符合M2VTR信号。

B75 : 符合Betacam 7.5%设置信号。

B00 : 符合Betacam 0%设置信号。

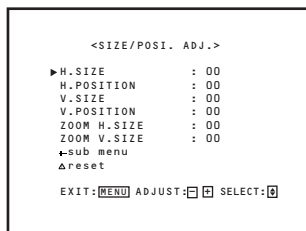
注：

只有在480/60i, 480/60p, 576/50i 或576/50p信号输入时才显示COMPO. LEVEL（分量级别）。

SIZE (尺寸) / POSI.ADJ. (位置调整)

调整图像尺寸和位置。

如右插图所示、按 \triangleright 按钮显示设置菜单。



■ H.SIZE (水平尺寸)

调整屏幕水平尺寸。

• -20 ~ 00 ~ +20 (*)

- : 减小屏幕水平尺寸。
- + : 增大屏幕水平尺寸。

* 在缩扫模式模式下减少为00 ~ +20。

■ H.POSITION (水平位置)

调整屏幕水平位置。

• -20 ~ 00 ~ +20

- : 把屏幕向左移。
- + : 把屏幕向右移。

■ V.SIZE (垂直尺寸)

调整屏幕垂直尺寸。

• -20 ~ 00 ~ +20

- : 减小屏幕垂直尺寸。
- + : 增大屏幕垂直尺寸。

■ V.POSITION (垂直位置)

调整屏幕垂直位置。

• -20 ~ 00 ~ +20

- : 屏幕向上移动。
- + : 屏幕向下移动。

■ ZOOM V.SIZE (变焦垂直尺寸)

• -20 ~ 00

■ ZOOM H.SIZE (变焦水平尺寸)

• -20 ~ +20

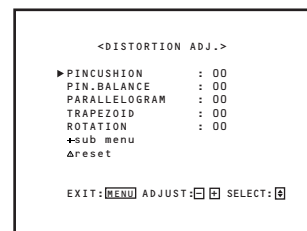
注：

- ZOOM V.SIZE (变焦垂直尺寸) 和 ZOOM H.SIZE (变焦水平尺寸) 仅在 ZOOM (变焦) 功能有效时显示。ZOOM (变焦) 功能有效时，ZOOM V.SIZE (变焦垂直尺寸) 调节屏幕垂直尺寸，而 ZOOM H.SIZE (变焦水平尺寸) 调节屏幕水平尺寸。

DISTORTION ADJ. (失真度调整)

补偿图像失真度。

如右插图所示、按 \triangleright 按钮显示设置菜单。



■ PINCUSHION (针垫)

补偿针垫图像失真。

• -20 ~ 00 ~ +20

- : 扩展图像左右两侧。
- + : 挤压图像左右两侧。

■ PIN.BALANCE (针平衡)

调整针垫图像失真的补偿平衡。

• -20 ~ 00 ~ +20

- : 图像左侧扩展/右侧挤压。
- + : 图像左侧挤压/右侧扩展。

■ PARALLELOGRAM (平行四边)

补偿平行四边图像失真。

• -20 ~ 00 ~ +20

- : 把图像顶边移向右/底边移向左。
- + : 把图像顶边移向左/底边移向右。

■ TRAPEZOID (不规则四边)

补偿图像不规则四边失真。

• -20 ~ 00 ~ +20

- : 增大图像顶边。
- + : 减小图像顶边。

■ ROTATION (回转)

调整图像倾斜。

• -31 ~ 00 ~ +31

- : 图像顺时针回转。
- + : 图像逆时针回转。

■ 如何使用“SETUP MENU（设置菜单）”（续）

STATUS DISPLAY（状态显示）

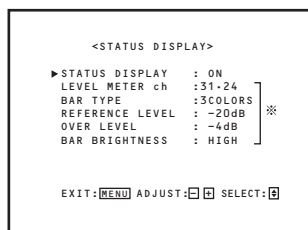
设置状态显示的ON/OFF（开/关）。

- 设置显示的ON/OFF（开/关）。亦可选择显示类型。（已安装AUDIO LEVEL METER（音频电平表）功能兼容输入卡时。）
- 改变AUDIO PLL（音频锁相环）设置（已安装EMBEDDED AUDIO（内置音频）功能兼容的SDI输入卡时）。

按▷按钮显示如右插图所示的设置菜单。

注：

- ※ 如果已经安装了AUDIO LEVEL METER（音频电平表）兼容输入卡，会显示功能设置。



■ STATUS DISPLAY（状态显示）

把状态设置为ON（开）或OFF（闭）。

- ON（开）：信息显示。
- OFF（关）：信息不显示。

■ LEVEL METER ch（电平表频道）

在AUDIO LEVEL METER（音频电平表）显示中选择音频频道。

- OFF（关）：1/2/12:34/31:24/123:456/1-8

注：

- 指示音频频道的数字。“：”左边指示的频道输入水平显示在屏幕左边。“：”右边指示的频道输入水平显示在屏幕右边。
- 设置值为“OFF（关）”时，不显示AUDIO LEVEL METER（音频电平表）。
- 选择1-8时，1、2、3和4的频道输入水平显示在屏幕左边。5、6、7和8的频道输入水平显示在屏幕右边。

■ BAR TYPE（杆种类）

选择音频电平表的色彩。

- WHITE（白色）-1：显示白色。
- WHITE（白色）-2：显示白色（半透明）。
- 3 COLORS（色）：音频电平表使用3种不同的色彩（红色，黄色，绿色）指示不同的输入水平。
 - 红色：音频水平超过在“OVER LEVEL（超过水平）”中的设置值时显示。
 - 黄色：音频水平超过在“REFERENCE LEVEL（参考水平）”中的设置值时显示。
 - 绿色：音频水平低于在“REFERENCE LEVEL（参考水平）”中的设置值时显示。

注：

- 在WHITE（白色）-1和WHITE（白色）-2中，显示指示杆，指示在“REFERENCE LEVEL（参考水平）”中设置的标准水平。不显示在“OVER LEVEL（超过水平）”中设置的水平。
- 对没有输入信号的音频频道，使用白色表示设置了3COLORS（色）的频道，灰色表示其他设置。

■ REFERENCE LEVEL（参考水平）（※）

设置标准输入水平。

- -20dB/-8dB

■ OVER LEVEL（超过水平）（※）

设置在“3COLORS（色）”显示方式下使用红色指示的输入值下限。

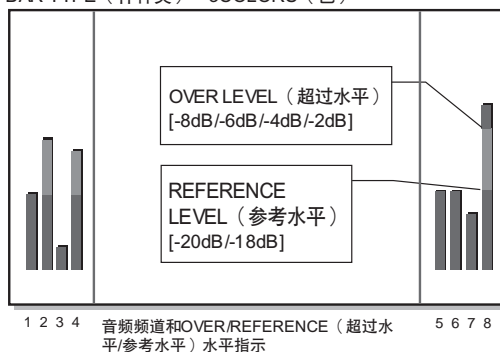
- -8dB/-6dB/-4dB/-2dB

■ BAR BRIGHTNESS（※）

选择AUDIO LEVEL METER（音频电平表）的显示亮度。

- HIGH（高）：调亮。
- LOW（低）：调暗。

AUDIO LEVEL METER（音频电平表）显示例
LEVEL METER ch（水平表频道）：1-8，
BAR TYPE（杆种类）：3COLORS（色）



CONTROL LOCK（控制锁定）

■ CONTROL LOCK（控制锁定）

使前面板上的大部分操作无效（包括菜单屏幕操作）。

- OFF（关）：允许正常操作。
- ON（开）：除了电源开关和CONTROL LOCK（控制锁定）外，其它操作都无效。

注：

- 在CONTROL LOCK（控制锁定）设置为ON（开）时，除了电源开关和控制锁定，进行其它任何操作后，屏幕上都会显示“Control lock on!（控制锁定中）”，持续约3秒钟。（电源开关和显示SETUP MENU（设置菜单）操作可以进行）。
- 在CONTROL LOCK（控制锁定）设置为ON（开）时显示SETUP MENU（设置菜单），光标（▶）位于CONTROL LOCK（控制锁定）右侧且无法移动。

all reset（全部重新设置）

重设SETUP MENU（设置菜单）中所有的项目，恢复到出厂预设值。

1. 按△/▽按钮选择“all reset（全部选项重新设置）”，然后按▷按钮。屏幕显示确认信息。
2. 按▷按钮进行初始化。
按MENU（菜单）按钮可取消初始化。

■ 如何使用外部控制

■ 关于外部控制

多格式监视器具备2种外部控制终端。

其中之一是MAKE/TRIGGER（接通/触发）终端，可以在功能设定中，通过选择MAKE（接通）或TRG.（触发）方法来控制监视器。

MAKE（接通方式）：通过短路（和第15号终端GND短路）或稳定地断开（终端打开）控制终端实现功能控制。

TRG.（触发系统）：通过控制终端瞬间（一秒钟）的短路（与15号终端GND短路）实现功能控制。

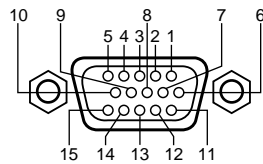
* 在设定菜单的REMOTE SELECT（遥控选择）中选择MAKE（接通）或TRIGGER（触发）。

另一种用于远端控制的终端是RS-485终端。可以通过此终端使用串行通讯对监视器进行控制。

注：控制优先顺序为：①MAKE/TRIGGER终端> ②RS-485终端> ③前面板按钮。

当启动触发连接方式时，可以操作前面板上的按钮。

■ 如何使用MAKE/TRIGGER（接通/触发）终端



序号	控制功能	断开	短路	*1
1	打开计数灯	关闭	打开	*2
2	改变输入为 INPUT（输入）A	不改变	改变	
3	改变输入为 INPUT（输入）B	不改变	改变	
4	改变输入为 INPUT（输入）C	不改变	改变	
5	改变输入为 INPUT（输入）D	不改变	改变	
6	改变输入为 INPUT（输入）E	不改变	改变	
7	改变输入为 INPUT（输入）F	不改变	改变	
8	COLOR OFF（色彩关闭）	关闭	打开	
9	AREA MARKER（面积标记）	关闭	打开	
10	ASPECT（外观）	关闭	打开	
11	TALLY SELECT（记数选择）	GREEN（绿色）	RED（红色）	
12	AREA MARKER set-up（设置面积标记）	不带“R-”	带“R-”	*3
13	STATUS DISPLAY（状态显示）	ON（打开）	OFF（关闭）	
14	External Control（外部控制）	有效	无效	*2
15	GND（接地终端）			

*1：在启动TRIGGER(触发)方式时，所有设置切换都通过瞬间（约1秒钟）短路（将第15号终端GND短路）控制终端来实现。

*2：即使启动触发方式，TALLY（计数器）（第1号终端）和EXTERNAL CONTROL（外部控制）（第14号终端）也必须由MAKE（接通）方式控制。

*3：在AREA MARKER（面积标志）菜单中，可以设置各项目是否带“R-”。详情请参照第14页“AREA MARKER（面积标志）”。

操作

1. 把EXTERNAL CONTROL（第14号终端）和GND（第15号终端）短路以激活外部控制。
2. 在MAKE（接通）方式下，可通过短路（和第15号终端GND短路）或稳定地断开（终端打开）控制终端来控制各项功能。
3. 在TRIGGER（接通）方式下，可通过脉冲控制各项功能，即通过瞬间（约1秒钟）短路（和第15号终端GND短路）控制终端来进行控制。

注意：

- 使用INPUT（输入）A（第2号针）至INPUT（输入）F（第7号针）时，只有使用中的终端才能短路，其他终端必须断开。
- 在TRIGGER（触发）方式下，不能有数个终端同时和GND（第15号终端）短路。请确认把信号终端和GND短路。

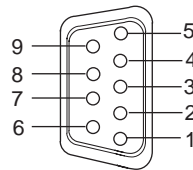
■ 如何使用外部控制（续）

■ 如何使用RS-485终端

可通过控制器（此监视器专用）控制监视器，也可通过RS-485终端用个人电脑控制。关于使用个人电脑控制监视器的具体操作，请向用户服务中心询问。

1. 电缆

准备一条带 D-Sub 连接器的直线电缆（9针、内嵌）和一个 D-Sub 连接器（9针、外凸）。



2. 通讯规格

波特率 : 4800/9600/19200（工厂预设：4800）
数据位 : 8位
奇偶性 : 无奇偶性
停止位 : 1
通讯代码 : ASCII（美国信息互换标准）代码

3. 指令

格式

标头	ID（标识符）	指令标识符	指令内容	数据	CR
----	---------	-------	------	----	----

标头

- ! 从电脑控制监视器
- ? 从电脑到监视器参考
- @ 从监视器到电脑答复

ID+指令+数据

B	基本指令	字符	00、01 或无数据
D	调整图像尺寸指令	00~08	U, D (U: UP, D: DOWN)
S	调整图像质量指令	00~05	U, D (U: UP, D: DOWN)
M	选择菜单项目指令	00~0E	00、01、10、11
F	选择菜单项目指令	00~10	00、A01, 02, 03, 04, 05
W	调整白色平衡指令	00~05	U, D (U: UP, D: DOWN)
C	查询监视器状态指令	00	0~655

针序号	IN（输入）终端信号	OUT（输出）终端信号
1	5V电源 （用于此监视器的 专用控制器）	NC
2	TD+	TD+
3	RD+	RD+
4	NC	NC
5	NC	NC
6	NC	NC
7	TD-	TD-
8	RD-	RD-
9	NC	NC

* 为第1号终端提供电力的5V电源用于此监视器的专用控制器。请勿用于其他装置。

通讯步骤

以下为通讯步骤。

1. 开始通讯

从电脑接收连接指令 (!XXBCNI Cr) → 发送监视器状态 (@XXBOKCr) 到电脑

2. 执行外部控制

从电脑接收控制指令 (!XXXXCr) → 发送监视器状态 (@XXBOKCr) 到电脑

* 如果必要，监视器会重复接收和发送。

3. 中止通讯

接收中止指令 (!XXBCN0Cr) → 发送监视器状态 (@XXBOKCr) 到电脑

* 使用hand-shake（沟通）通讯方式。使用这种通讯方式时，电脑在向监视器发送一个指令后必须等候从监视器返回的状态信号，然后才能发送下一个指令。

* 通过RS-485终端用个人电脑控制监视器时，需要一个转换适配器（RS-232C ↔ RS-485）。

故障维修

有关您的监视器常见问题的解决方式如下。如果下述方式都不能解决问题/请拔下监视器插头/向JVC授权的经销商或服务中心寻求帮助。

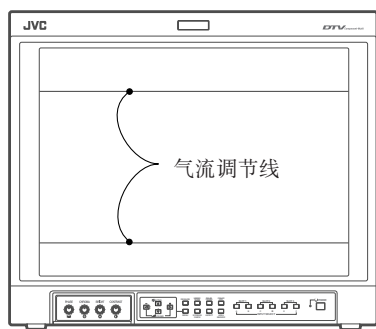
问题	检查要点	措施（补救方法）	参考页
没有供电	电源插头有没有松动或是没有连接？	紧密插入电源插头。	—
	主电源是否设置在OFF（关）上？	把主电源设置到ON（开）上。	6
电源打开但没有图像	信号电缆是不是断开了？	紧密连接信号电缆。	7~10
	连接部件电源有没有ON（打开）？ 连接部件有没有信号输出？	打开连接部件的电源，正确设置。	—
	有没有正确选择输入信号？	用INPUT SELECT（输入选择）按钮选择正确的输入。	5
	输入信号是否符合监视器规格？	检查输入信号格式是否对应已安装的输入卡格式。	7~10
	自测指示灯（输入选择A~F按钮）是否在闪烁？	请根据“SELF-CHECK INDICATIONS（自测显示）”部分的说明进行处理。	27
没有声音	音频电缆是不是断开了？	紧密连接音频电缆。	7~10
	连接部件有没有音频信号输出？	正确设置连接部件。	—
	音量输出是不是设置到最小？	使用VOLUME（音量调节）按钮调节扬声器音量。	4
色彩出错	图像调整有没有更改过？	将每个图像调整按钮设置在标准（中心）位置。或者，把〈SETUP MENU（设置菜单）〉屏幕中[PICTURE SUB ADJ.（图像粗调）]中的每各图像调整项目设置在标准（00）位置（或使用[重新设置]功能）。	4, 20
	WHITE BALANCE（白色平衡）有没有更改过？	把〈SETUP MENU（设置菜单）〉屏幕中[COLOR TEMP./BAL.（彩色色度/平衡）]的每个选项设置为标准（000）（或使用[reset（重新设置）]功能）。	20
	有没有什么电缆连接到部件/RGB输入卡？	紧密连接每个信号电缆。	7
	是不是有正确信号输入到部件/RGB输入卡？有没有选中监视器的正确INPUT（输入）？	在部件信号输入时选择INPUT（输入）A/C/E或在RGB信号输入时选择INPUT（输入）B/D/F。	7
非正常图像	[CONTRAST（对比度）]和[BRIGHT（明亮度）]有没有更改过？	调整图像CONTRAST（对比度）和BRIGHT（明亮度）图像调整按钮。 或者，调整〈SETUP MENU（设置菜单）〉中[PICTURE SUB ADJ.（图像粗调）]的[CONTRAST（对比度）]和[BRIGHT（明亮度）]选项。	4, 20
图像颤动	监视器有没有靠近电机、变压器或其它产生强磁的地方？（风扇、荧光灯、激光打印机、其它显示器等）	把监视器搬离那些设备，直至图像停止颤动。把电源插头从原来的交流电输出口转接到另外的输出口。	—

故障维修 (续)

问题	检查要点	措施 (补救方法)	参考页
不规则颜色	监视器是不是放在或移近话筒或其它有磁场的地方? 是不是在电源打开时移动过监视器?	把设备从监视器边移开。 按前面板上的DEGAUSS (消磁) 按钮对屏幕消磁。 请等待30分钟以上, 以获得最好的消磁效果。	4
错误图像位置、错误图像尺寸	图像的位置, 尺寸或失真有没有更改过?	在〈SETUP MENU (设置菜单)〉的〔SIZE/ POSI.ADI (尺寸/位置调整)〕里调整图像尺寸 (H. SIZE (水平尺寸)、V. SIZE (垂直尺寸)) 或是位置 (H. POSITION (水平位置)、V. POSITION (垂直位置))。 在〈SETUP MENU (设置菜单)〉的〔DISTORTION ADI (失真调整)〕里调整图像失 (PINCUSHION (针垫) / PIN BALANCE (针平衡) / TRAPEZOID (不规则四边形) 和 PARALLELOGRAM (平行四边形))。 在选择的一些输入卡模式中/可能无法扩展图像, 所以就无法进行调整。	21
	有没有按过 UNDER SCAN (扫描方式) 或 ASPECT (外观) 按钮?	在 UNDER SCAN (扫描方式) 或 ASPECT (外观) 按钮灯亮时, 再按一下按钮令其无效。	5
前面板按钮不起作用	CONTROL LOCK (控制锁定) 功能有没有设置在 ON (开) 上?	把 CONTROL LOCK (控制锁定) 功能设置为 OFF (关闭)。	22
	监视器设置有没有被更改, 可以由外部设备通过 REMOTE (远程) 终端控制?	把外部遥控设置改为本体局部控制监视器。	23, 24

以下不是故障：

- 您可能在监视器上看到两条水平线。它们是“气流调节线”的影子，气流调节线是监视器必要的部件。这些线不是故障。



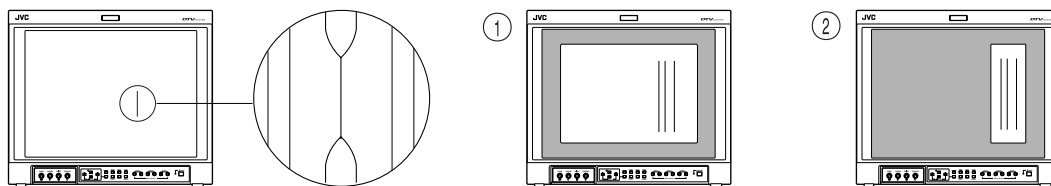
(DT-V1910CG 的前视图)

- 当一个明亮的静像 (如一块白布) 长时间显示时, 可能会着色。这是由于阴极射线管的结构造成的, 在显示另一个图像时它就会消失。
- 在您碰到图像管时可能有时候会感到轻微的电击。这种现象是正常的阴极射线管的静电, 是无害的。
- 如果室温突然改变, 监视器会发出怪声。这和屏幕出现异常一样。
- 如果有两台或两台以上监视器并排工作, 图像会颤动或失真。这是由于相互干扰造成的, 不是故障。隔开两台监视器间的距离, 直至干扰消失, 或关掉不用的那台监视器电源。

- 关于阴极射线管的反射 (使用变焦模式时) 屏幕显示可能变棕白色。这是由于某些信号源引起了阴极射线管上的部分影像发生反射而造成的, 并不是故障。

当屏幕上出现垂直的黑线时

如果在装运过程中, 由于摇晃, 振动导致孔径倾斜, 屏幕上会出现垂直的黑线。



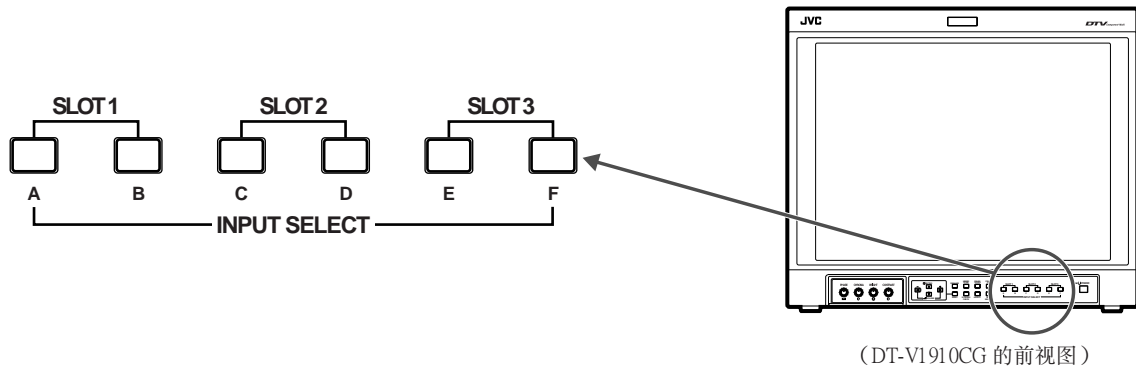
在这种情况下, 试一试轻轻敲打监视器的一侧机箱。如果还不能消除黑线的话, 请遵照以下步骤。

1. 显示一个白色屏幕, 以便清楚观察到出毛病的区域。
2. 把“CONTRAST (对比度)”和“BRIGHT (亮度)”都调到最大, 然后在此区域覆盖一个白色矩形。
3. 等待一会儿, 黑线会消失。

■ SELF - CHECK INDICATIONS (自测显示)

当萤幕显示消失时，前面板上的A至F输入选择按钮开始闪烁

本显示器具有自测功能，可以发现故障并提醒你。此功能使您容易查出故障。故障发生时，“自测指示灯”（A至F INPUT SELECT（输入选择）按钮）将开始闪烁，显示器电源自动关闭。如果发生上述情况，请按以下步骤操作，然后通知销售商解决问题。



1. 检查哪个指示灯在闪烁。
2. 关闭监视器背面的主电源开关。
3. 拔掉连接到交流输出上的电源线。
4. 和销售商联系，通知他哪个指示灯在闪烁。

注意：

- 如果关闭监视器电源（或电源故障）后又立即打开电源，萤幕上会没有任何显示，同时自测指示灯会闪烁。此时，请关闭电源，等至少10秒钟以后再重新打开电源。如果经此操作后自测指示灯不再闪烁，您可以正常地使用监视器。

规格

型号	DT-V1910CG	DT-V1710CG
类型	多格式监视器	
图像管	19"	
有效屏幕尺寸	宽 : 370 mm 高 : 270 mm 对角 : 460 mm	宽 : 330 mm 高 : 250 mm 对角 : 410 mm
扫描频率	H: 15 kHz/27 kHz — 45 kHz V: 50 Hz — 80 Hz	
视频波段	Component: 25 MHz (-3 dB) Video (Y/C): 8 MHz (-3 dB)	
水平分辨率	视频 (Y/C): 600 TV 线 1080/60i: 900 TV 线	视频 (Y/C): 600 TV 线 1080/60i: 800 TV 线
输入终端	需要在SLOT (槽) 1/槽2或槽3安装上选购的输入卡 INPUT (输入) A/INPUT (输入) B: SLOT (槽) 1输入卡的终端 INPUT (输入) C/INPUT (输入) D: SLOT (槽) 2输入卡的终端 INPUT (输入) E/INPUT (输入) F: SLOT (槽) 3输入卡的终端	
适用视频信号	NTSC (3.58 MHz) /PAL (4.43 MHz) (使用IF-C01 PNG) 480i/576i/480p/576p/1080i (50 Hz/60 Hz/24psF) /720p (50 Hz/60 Hz) (使用IF-C01 COMG) DI 串行数字 (使用IF-C01 SDG) HD 串行数字 (使用IF-C12HSDG)	
远程输入	点连接, 1线, D-Sub连接器 (15芯、3线) 串行连接, 1线, D-Sub连接器 (9芯), 适用RS-232C	
音频输出	1 W (单声道)	
内置话筒	8 cm圆 × 1	
环境条件	操作温度: 5°C - 35°C 操作湿度: 20% - 80% (不结露)	
电源要求	220 V AC, 50 Hz/60 Hz	
电源消耗 (插入输入卡)	220 V AC: 1.3 A	220 V AC: 1.1 A
尺寸	宽: 440 mm 高: 375 mm 深: 496 mm (不包括宽屏护罩和输入卡)	宽: 395 mm 高: 334 mm 深: 466.5 mm (不包括宽屏护罩和输入卡)
重量	29.4 kg (不包括宽屏护罩和输入卡)	23.7 kg (不包括宽屏护罩和输入卡)
附件	交流电源电线 (2.5 m) × 1 电源导线盒 × 1 (盒和盖) 螺丝钉 × 2 (电源线固定器) 宽屏护罩 × 1 螺丝钉 × 4 (宽屏护罩)	

* 本手册中的插图和图像经过放大, 简化或复合, 仅用于解释说明。真正产品的显示可能会有些不同。

* 尺寸和重量是近似值。

* E 和 O.E 设计与规格更改时, 恕不另行通知。

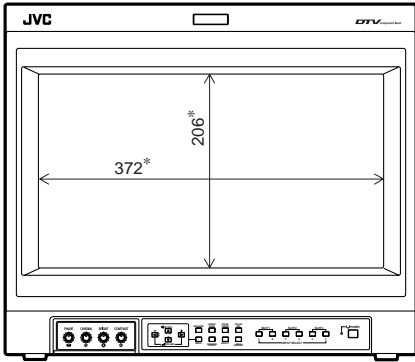
规格 (续)

尺寸

[DT-V1910CG]

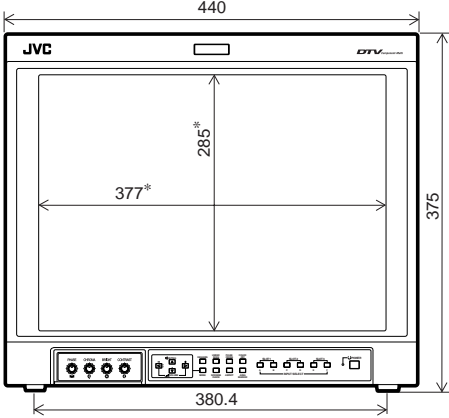
单位：mm

<装好宽屏护罩后的正视图>

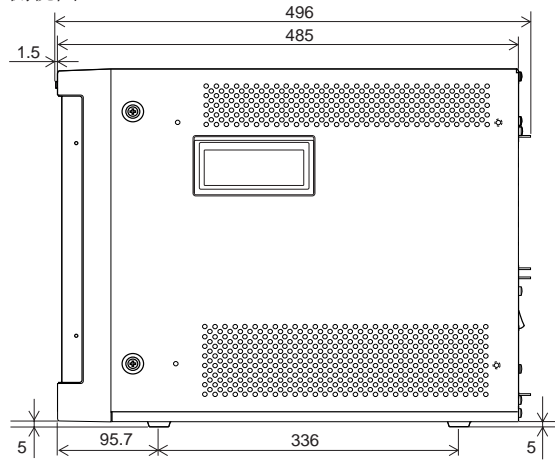


用星号 (*) 来提示前面板的尺寸规格。

<正视图>



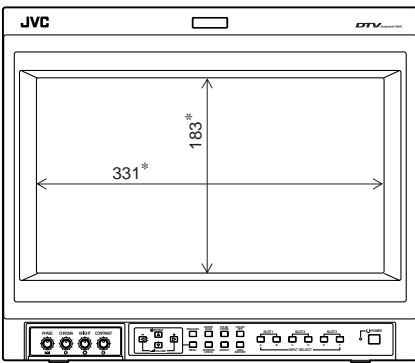
<侧视图>



[DT-V1710CG]

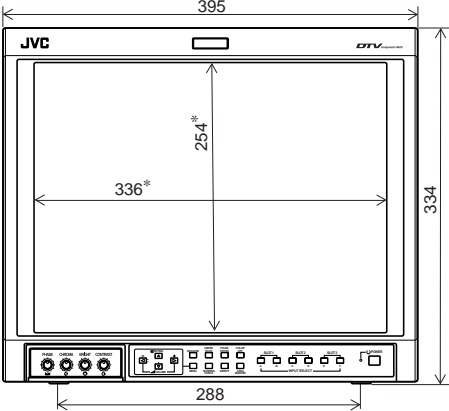
单位：mm

<装好宽屏护罩后的正视图>

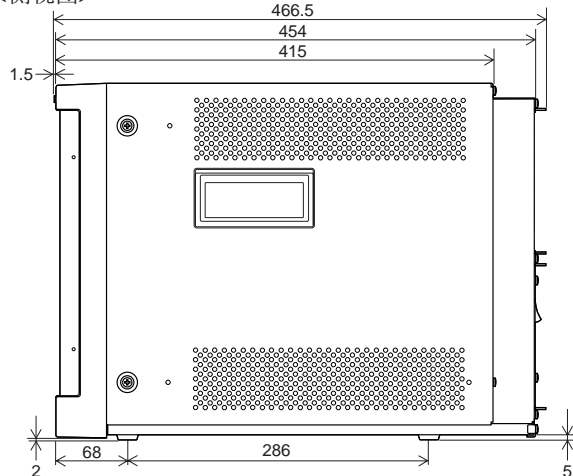


用星号 (*) 来提示前面板的尺寸规格。

<正视图>



<侧视图>



■ 符合各个输入卡的信号格式

输入信号	IF-C01PNG	IF-C01COMG	IF-C01SDG	IF-C21SDG	IF-C51SDG	IF-C12HSDG	IF-C21HSDG	IF-C51HSDG
NTSC (3.58 MHz)	◎	—	—	—	—	—	—	—
PAL (4.43 MHz)	◎	—	—	—	—	—	—	—
黑白 (50 Hz/60 Hz)	◎	—	—	—	—	—	—	—
480/60i (525i)	—	◎	◎	◎	◎	—	—	—
480/60p (525p)	—	◎	—	—	—	—	—	—
576/50i	—	◎	◎	○	○	—	—	—
576/50p	—	◎	—	—	—	—	—	—
720/50 (720p)	—	◎	—	—	—	—	◎	◎
720/60p (720p)	—	◎	—	—	—	◎	◎	◎
1080/50i	—	◎	—	—	—	◎	◎	◎
1080/60i (1125i)	—	◎	—	—	—	◎	◎	◎
1035/60i (1125i) (*1)	—	○	—	—	—	○	○	○
1080/24psF	—	◎	—	—	—	◎	◎	◎
EMBEDDED AUDIO (嵌入式音频)	—	—	—	◎	◎	◎	◎	◎

◎：可以输入。预设置。

○：可以输入。没有预设置。

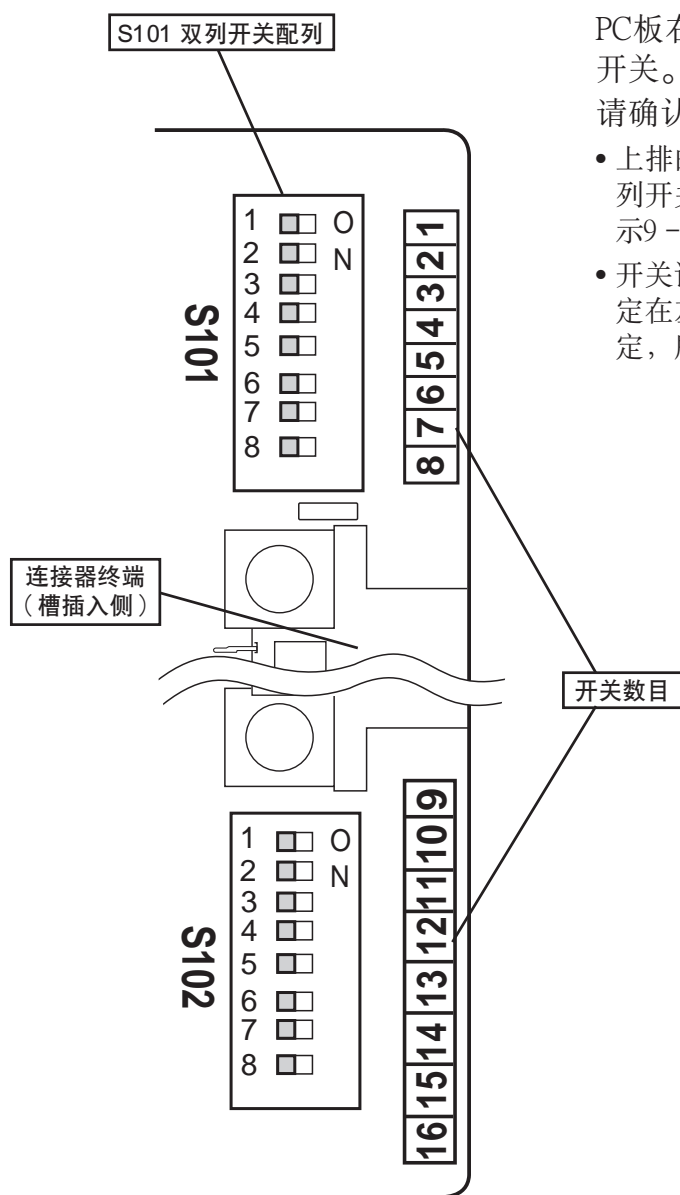
—：不可以输入。

*1：1035/60i (1125i) 未预设。如欲输入此类型信号，需进行一些操作。

规格（输入卡：选购）

带双列开关的输入卡安装须知

某些输入卡有两排双列开关：连接器终端上部的S101双列开关配列，和下部的S102双列开关配列。出厂运输过程中，这些开关表面预先蒙盖了一层胶膜。当发生故障，例如不能正确设定这些双列开关功能的情况，请务必进行下述检查。



PC板右侧的数字1 - 16分别指示其对应的各个双列开关。

请确认1 - 16号开关都设定在OFF（关闭）位置。

- 上排的S101双列开关配列上的数字1 - 8指示1 - 8号双列开关，而下排的S102双列开关配列上的数字1 - 8指示9 - 16号双列开关。
- 开关设定在右侧（该处有ON显示）为ON（开），设定在左侧为OFF（关）。左侧的图形是工厂缺省设定，所有的选择器开关都设定在OFF（关）。



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