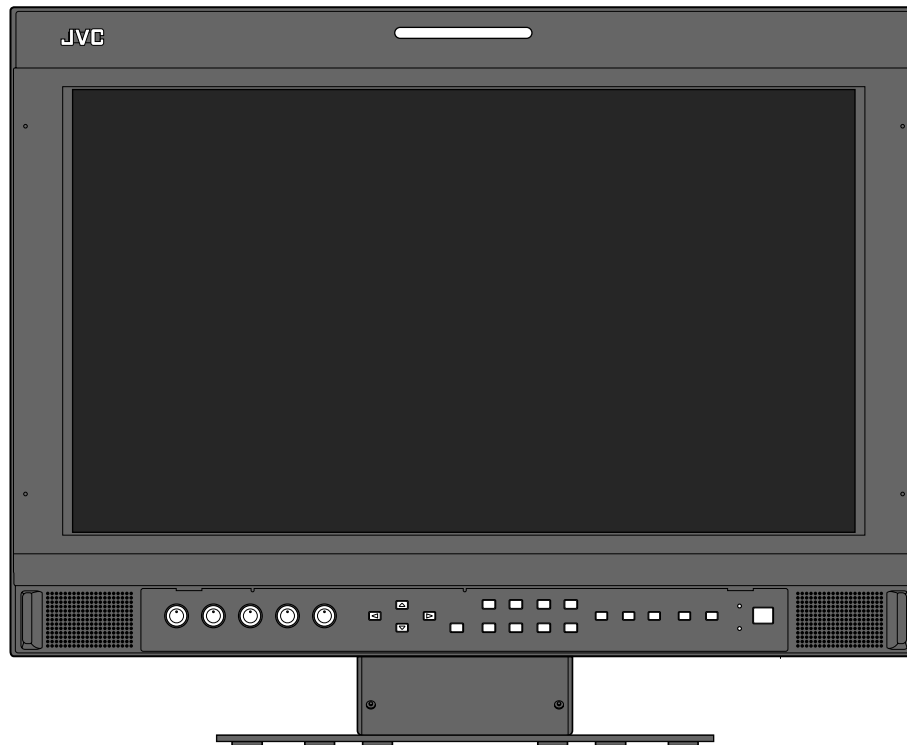






DT-V17G1Z

MULTI FORMAT LCD MONITOR



In the case that you use the monitor for many hours, we recommend that you set "NO SYNC ACTION" in "SYNC FUNCTION" to "P.SAVE" in MAIN MENU. This will reduce power consumption and relieve strain on the monitor.

| | |
|---|---|
|  CAUTION RISK OF ELECTRICAL SHOCK DO NOT OPEN  | <p>The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p> <p>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p> |
| <p>CAUTION: To reduce the risk of electric shock. Do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.</p> | |

INSTRUCTIONS

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Safety Precautions

WARNING: TO REDUCE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE. NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.

IMPORTANT SAFEGUARDS

Electrical energy can perform many useful functions. This unit has been engineered and manufactured to assure your personal safety. But **IMPROPER USE CAN RESULT IN POTENTIAL ELECTRIC SHOCK OR FIRE.** In order not to defeat the safeguards incorporated into this product, observe the following basic rules for its installation, use, and service. Please read these "IMPORTANT SAFEGUARDS" carefully before use.

- All the safety and operating instructions should be read before the product is operated.
- The safety and operating instructions should be retained for future reference.
- All warnings on the product and in the operating instructions should be adhered to.
- All operating instructions should be followed.

POWER CONNECTION

The power supply voltage rating of this product is AC 120 V. The power cord attached conforms to the following power supply voltage and countries. Use only the power cord designated to ensure safety and EMC regulations of each country.

For U.S.A. and Canada:
AC 120 V



This plug will fit only into a grounded power outlet. If you are unable to insert the plug into the outlet, contact your electrician to install the proper outlet. Do not defeat the safety purpose of the grounded plug.

- This product should be operated only with the type of power source indicated on the label. If you are not sure of the type of power supply of your home, consult your product dealer or local electric power company.

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.

- Before connecting other products such as VCR's and personal computers, you should turn off the power of this product for protection against electric shock.
- Do not use attachments not recommended by the manufacturer as they may be hazardous.
- **When replacement parts are required**, be sure the service technician has used replacement parts specified by the manufacturer or equivalents. Unauthorized substitutions may result in fire, electric shock, or other hazards.
- **Upon completion of any service or repairs to this product**, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

When an external battery is attached, you will not be able to see the complete rating label. Please refer to the rating information provided in this manual.

Under the following conditions,

1. Turn off the power.
 2. Unplug this product from the wall outlet.
 3. Refer service to qualified service personnel.
- a) When the product emits smoke or unusual smell.
 - b) When the product exhibits a distinct change in performance—for example, no picture or no sound.
 - c) If liquid has been spilled, or objects have fallen on the product.
 - d) If the product has been exposed to rain or water.
 - e) If the product has been dropped or damaged in any way.
 - f) When the power supply cord or plug is damaged.

- Do not install this product in the following places:
 - in a damp or dusty room
 - where the product is exposed to soot or steam, such as near the cooking counter or a humidifier
 - near heat sources
 - where condensation easily occurs, such as near the window
- Do not place this product on an unstable cart, stand, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the product.

The product should be mounted according to the manufacturer's instructions, and should use a mount recommended by the manufacturer.

- Do not use this product near water.
- Be sure to install the product in the place where proper temperature and humidity are kept. (☞ "Operating conditions" on page 26)
This product becomes hot during its use. Take enough care when handling the product.

Do not attempt to service this product yourself, as opening or removing covers may expose you to dangerous voltages and other hazards. Refer all service to qualified service personnel.

Do not use the product for a long time if the sound is distorted.

Use only the power source specified on the unit.

- AC power: 120 V, 50 Hz/60 Hz
- DC power: 12 – 17 V

- The AC power supply is controlled by turning on/off the POWER switch on the rear panel. If the product is installed in a place where you cannot easily turn on/off the POWER switch, control the AC power supply by plugging/unplugging the power cord into/from the AC outlet. In this case, install the product as close to the AC outlet as possible, and leave enough space for plugging/unplugging the power cord. If the product is installed in a place where you cannot easily plug/unplug the power cord, equip an easily accessible device to the wiring of the building for turning on/off the power.
- When the product is left unattended and unused for a long period of time, unplug it from the wall outlet and disconnect the cable system.
- Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.
- Use only the accessory cord designed for this product to prevent shock.

- Slots and openings in the cabinet are provided for ventilation. These ensure reliable operation of the product and protect it from overheating. These openings must not be blocked or covered.
- Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-circuit the parts, which could result in a fire or electric shock.
- Never spill liquid of any kind on the product.
- Never place anything on the product. (Placing liquids, naked flames, cloths, paper, etc. on the product may cause a fire.)
- Do not apply any strong shock to the LCD panel. (Do not hit any object against it or push it with a sharp-pointed tool.)
- Do not put heavy objects on the product.
- Do not step on or hang on the product.

Caution for use of the product in the high temperature

Do not use the product in places of high temperature; otherwise, parts of this product or the LCD panel may be damaged. This product is equipped with a temperature sensor to give warning if the temperature becomes too high. If the temperature exceeds the range of normal use, "TEMP. OVER" is displayed, and the power is turned off automatically if the temperature becomes any higher. In this case, move the product to a place of low temperature to let it cool down.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

WARNING: THIS APPARATUS MUST BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.

CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE.

FCC NOTICE

CAUTION: Changes or modifications not approved by JVC could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

IMPORTANT RECYCLING INFORMATION

This product has a fluorescent lamp that contains mercury. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities or for USA, the Electronic Industries Alliance: <http://www.eiae.org>

IMPORTANT SAFETY INSTRUCTIONS

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15) Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.
- 16) Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- 17) When discarding batteries, environmental problems must be considered and the local rules or laws governing the disposal of these batteries must be followed strictly.

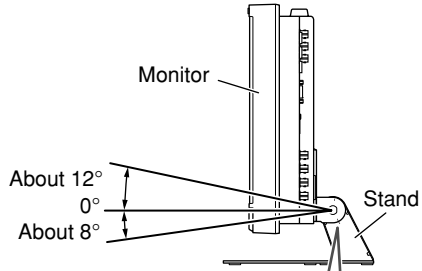


CAUTION

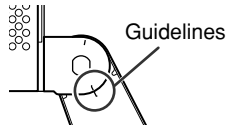
- Do not rest your arm on the monitor or lean against the monitor.
- Do not touch the LCD panel when installing the monitor.
- Be sure to install the monitor securely to prevent the monitor from falling over, which may cause damage to the monitor or injury.

You can place the monitor in the following two ways when using it on the supplied stand.

You can tilt the monitor as follows.



- When the monitor is not tilted (0°), the guidelines align as illustrated below.



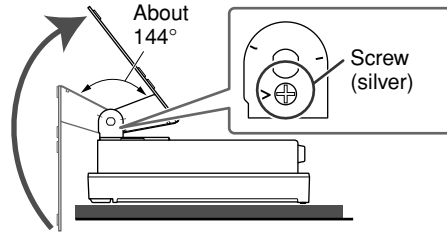
- You can select the stand height—higher position or lower position. (See “To adjust the stand height” on page 5)

CAUTION

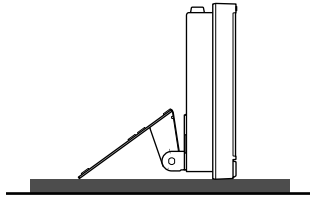
- Be careful not to pinch your fingers in the gap between the monitor and the stand.
- When the stand plate is attached to the lower position of the stand body, you cannot tilt the monitor downward.

When the stand plate is attached to the higher position of the stand body (See “To adjust the stand height” on page 5), you can place the monitor as illustrated below.

- 1 Remove the screws on the right side of the stand (see the illustration below), then lift the stand up by about 144°.



- 2 Attach the removed screws and place the monitor as illustrated below.



- To place the monitor as illustrated on the left again, remove the screws on the right side of the stand, return the monitor angle to 0°, then reattach the removed screws.

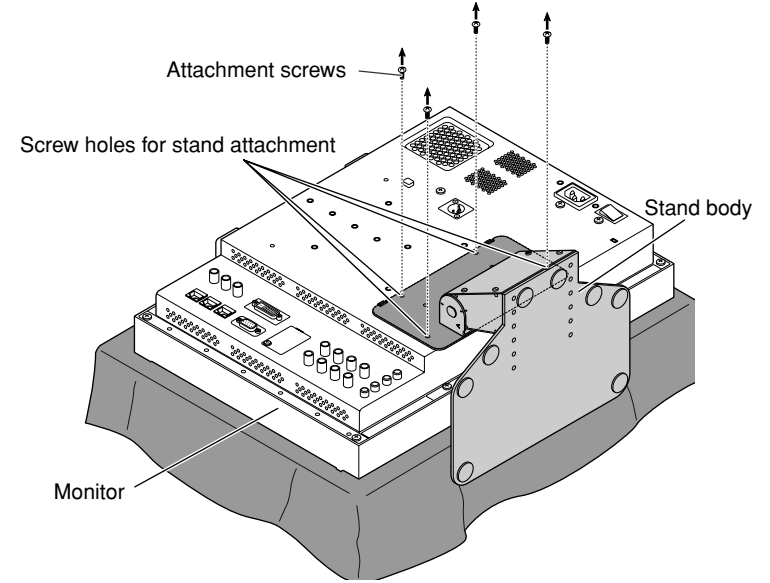
CAUTION

- When lifting up the stand...
 - lay the monitor on a cloth with the LCD panel facing down to prevent the LCD panel from being damaged.
 - be careful not to pinch your fingers in the moving parts.
- Make sure of lifting the stand up until it stops (about 144°); otherwise the monitor may fall over.
- Place the monitor on a mat to avoid scratching the table surface.
- Do not lift up the stand when the stand plate is attached to the lower position of the stand body.
- When the battery is attached, the stand may not be lifted up depending on the type of the battery.

To detach the stand

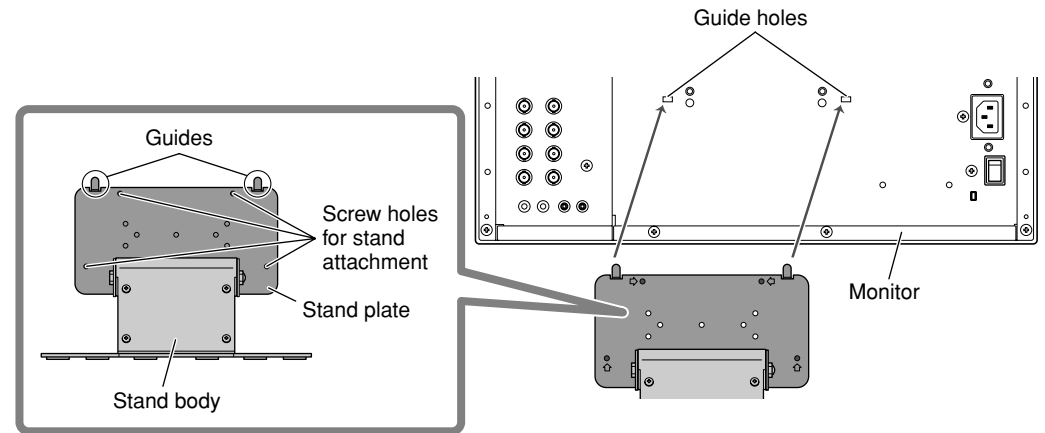
CAUTION

Lay the monitor on a cloth with the LCD panel facing down to prevent the LCD panel from being damaged.



To install the stand

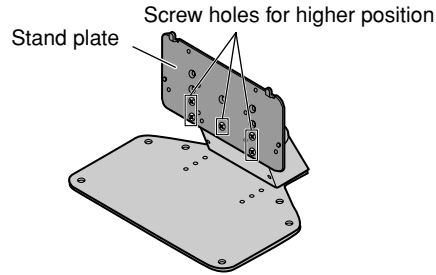
When attaching the stand to the monitor, insert the guides of the stand into the guide holes on the monitor to place the stand in the correct position. Then fix the stand firmly with the attachment screws.



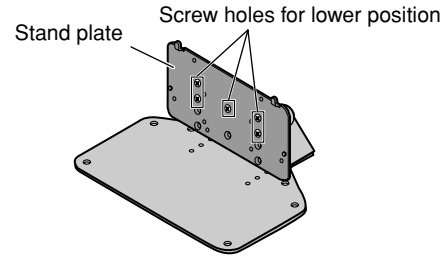
To adjust the stand height

To change the stand height, detach the stand from the monitor. (See "To detach the stand" on page 4) Then, change the position of the stand plate according to the stand height you want by choosing the screw holes to use.

<Higher position>



<Lower position>



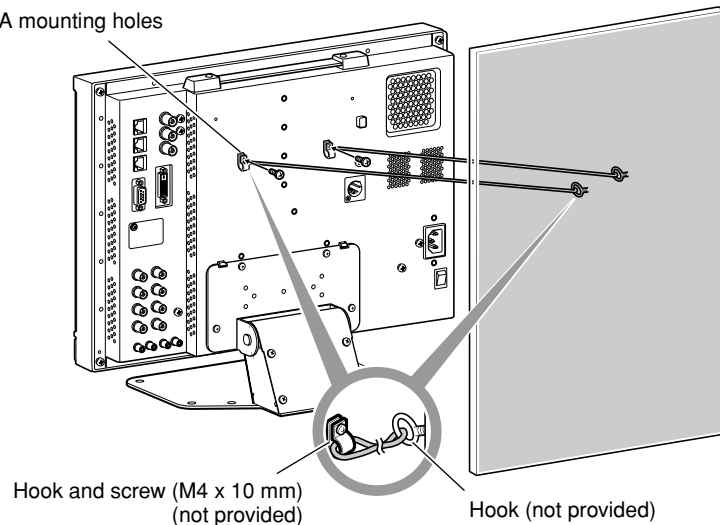
To prevent an accidental fall

Fix the monitor to a wall by using strings.

Fixing the monitor

Attach the hook (not provided) to the VESA mounting holes on the rear panel (use the two holes on the upper side) using M4 x 10 mm screws (not provided). Bind the hooks on the rear panel of the monitor to a wall or a pillar using durable string.

VESA mounting holes



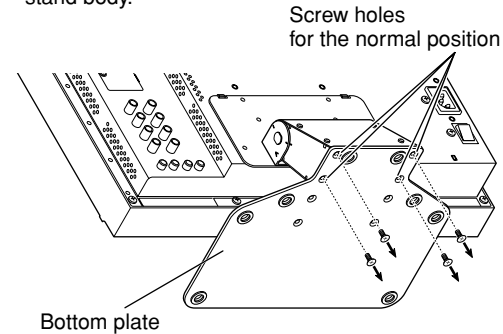
To install the monitor on a shelf or any other suitable surface using screws

You can install the monitor on a shelf etc. by changing the position of the bottom plate of the stand to a rearward position.

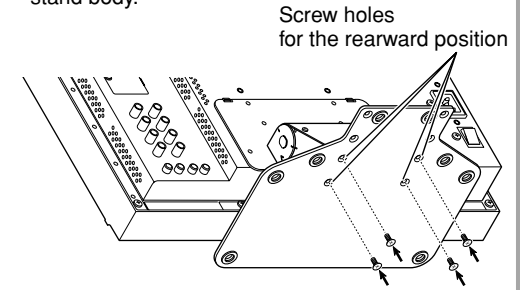
CAUTION

- Lay the monitor on a cloth with the LCD panel facing down to prevent the LCD panel from being damaged.
- When you change the position of the bottom plate of the stand, be sure to install the monitor using screws (not provided).

- 1 Remove the bottom plate of the stand from the stand body.

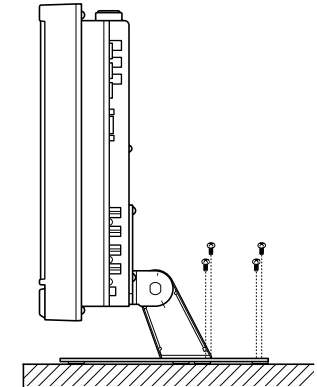
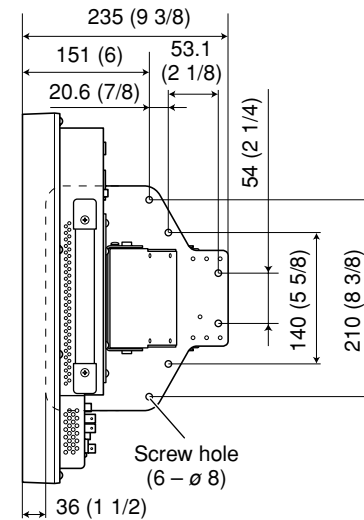


- 2 Remove the bottom plate of the stand from the stand body.



- 3 Be sure to fix the bottom plate using screws (not provided). Use two holes or more on one side and four holes (6 - ø 8) or more on both sides of the bottom plate of the stand.

Unit: mm (inch)



CAUTION

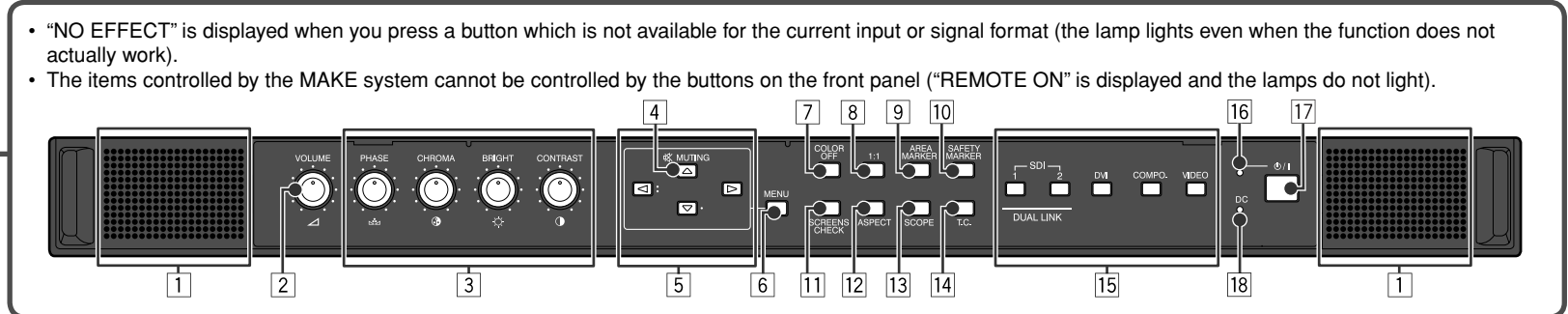
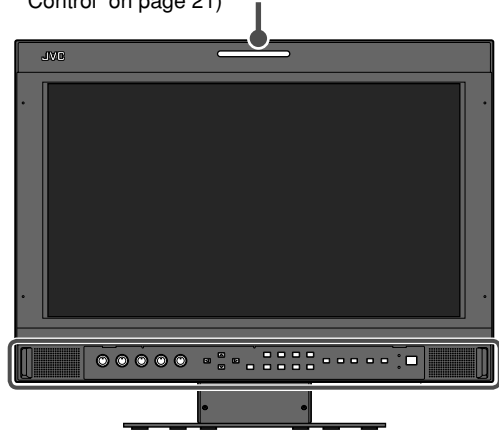
Be sure to install the monitor on the shelf etc. using screws. Otherwise, the monitor may topple over or fall down, leading to injury, electric shock, or other hazards.

Front panel

Tally lamp

This lamp is controlled by the tally function of the MAKE/TRIGGER terminal.

- You can select the color of the tally lamp from "GREEN" or "RED." (☞ "TALLY SELECT" in "FUNCTION SETTING" on page 17 and "External Control" on page 21)



- "NO EFFECT" is displayed when you press a button which is not available for the current input or signal format (the lamp lights even when the function does not actually work).
- The items controlled by the MAKE system cannot be controlled by the buttons on the front panel ("REMOTE ON" is displayed and the lamps do not light).

1 Speakers (stereo)

The speakers emit the same audio signal emitted from the AUDIO (MONITOR OUT) terminals. (☞ "5 AUDIO (MONITOR OUT) terminals" on page 8)

2 VOLUME adjustment knob

Adjusts the volume.

3 Picture adjustment knob

PHASE: Adjusts the picture hue.

CHROMA: Adjusts the picture color density.

BRIGHT: Adjusts the picture brightness.

CONTRAST: Adjusts the picture contrast.

- PHASE and CHROMA cannot be adjusted for certain signal formats.

- When "COMPONENT PHASE" is set to "DISABLE" and an NTSC signal is input, PHASE can be adjusted (☞ page 17).

4 MUTING button

Turns off the sound when no menu screen is displayed.

- To cancel the function, press the button again or turn the VOLUME adjustment knob.
- Muting function is also canceled when "BALANCE" of "AUDIO SETTING" in the MAIN MENU is changed (☞ page 14).

5 ◀/▶/△/▽ buttons

When a menu screen is displayed

Selects or adjusts menu items. (☞ "Menu Operations" on page 7)

When no menu screen is displayed

Selects the audio channels of EMBEDDED AUDIO signals. (☞ "Audio Channel Selection" on page 7)

- Pressing ◀ button while holding ▽ button displays the SET-UP MENU. (☞ "Menu Operations" on page 7)

6 MENU button

Activates/deactivates the display of the MAIN MENU. (☞ "Menu Operations" on page 7)

7 COLOR OFF button/lamp

Displays only the luminance signal.

- This function does not work for RGB input signals.

8 1:1 button/lamp

Displays the picture in the original resolution of the input signal.

- The aspect ratio of the picture may change depending on the input signal.

9 AREA MARKER button/lamp

Displays/hides the area marker.

- Select the style of the area marker in "MARKER" of the MAIN MENU (☞ page 13).
- This function works only when displaying the picture in 16:9 aspect ratio.
- This function does not work when "AREA MARKER" or "R-AREA MARKER" is set to "OFF" in "MARKER."

10 SAFETY MARKER button/lamp

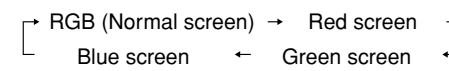
Displays/hides the safety marker.

- Adjust the area of the safety marker in "MARKER" of MAIN MENU (☞ page 13).
- This function does not work when displaying the picture in the 1:1 mode.
- This function does not work when "SAFETY MARKER" or "R-SAFETY MARKER" is set to "OFF" in "MARKER."

11 SCREENS CHECK button/lamp

Displays only the selected element (R, G, or B) of the video signal.

- Each time you press this button, the picture changes in the following order.



12 ASPECT button/lamp

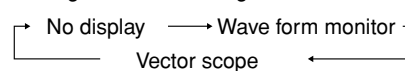
Changes the aspect ratio of the picture from 4:3 to 16:9 when the picture of 16:9 aspect ratio is squeezed into 4:3 format signal.

- To return to 4:3, press the button again.
- This function does not work when displaying the picture in the 1:1 mode.

13 SCOPE button/lamp

Displays/hides the indication of the wave form monitor and vector scope. (☞ "SCOPE SETTING" on page 15)

- Each time you press this button, the window changes in the following order.



14 T.C. (time code) button/lamp

Activates/deactivates the display of the time data (time code) contained in the SDI signal. (☞ "On the Information Display" on page 7)

- Select the time code type in "TIME CODE" of SET-UP MENU (☞ page 19).

15 INPUT SELECT buttons/lamps

Selects an input.

SDI 1: E. AUDIO HD/SD SDI (IN 1) terminal

SDI 2: E. AUDIO HD/SD SDI (IN 2) terminal

DUAL LINK SDI: E.AUDIO HD SDI (IN 1, IN 2) terminal

DVI: DVI-D (HDCP) terminal

COMPO.: COMPO. terminal

VIDEO: VIDEO terminal

- The lamp for the selected input lights.
- When "SDI DUAL LINK" is set to "ON" in MAIN MENU, press SDI 1 or SDI 2 to select DUAL LINK (☞ page 12).

16 Power lamp

Unlit: The monitor is completely off (both the POWER switch and DC switch on the rear panel are turned off).

Lights in Green: The monitor is on.

Lights in orange: The monitor is off (on standby).

Flashes in orange: The monitor is in the P. SAVE (power save) mode. (☞ "NO SYNC ACTION" in "SYNC FUNCTION" on page 15)

17 ⏻ / I button

Turns on and off (on standby) the monitor.

- The power switches (the POWER switch and DC switch) are equipped on the rear panel of the monitor (☞ 9 on page 8, 12 on page 9).
- To turn off the monitor completely, turn off the POWER switch and DC switch.

18 DC lamp

When the DC 12 V power voltage is being lowered due to the battery consumption, the lamp changes to orange from green. When the voltage becomes lower than a certain level, the monitor automatically turns off and the lamp turns to red.

- Make sure to turn off the POWER switch and DC switch on the rear panel before replacing the battery.
- The length of time that the lamp lights in orange differs depending on the type of battery or the battery condition. It is recommended to replace the battery when the lamp turns to orange.

Menu Operations

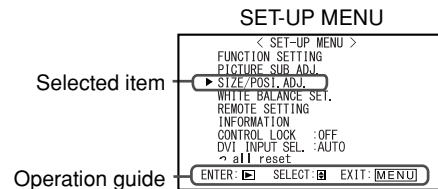
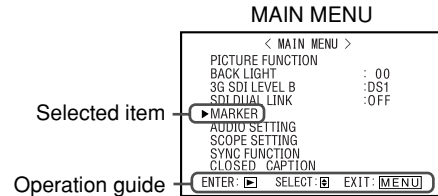
1 Display the menu.

To display the **MAIN MENU**

➔ Press MENU button.

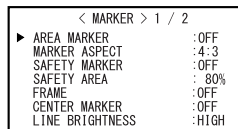
To display the **SET-UP MENU**

➔ Press ◀ button while holding ▽ button.



2 Press △ ▽ buttons to select an item, then press ▷ button.

• For some items, adjustments will be made by pressing ◀▷.



Ex.: When "MARKER" in the MAIN MENU is selected

3 Press △ ▽ buttons to select an item, then press ◀▷ buttons to make adjustments.

4 Press MENU button to finish the menu operation.

• Pressing MENU button repeatedly deactivates the display of the menu.

Audio Channel Selection

Select audio channels emitted from the speakers (L/R) and the AUDIO (MONITOR OUT) (OUT1(L)/OUT2(R)) terminals, when EMBEDDED AUDIO signals come in to the E. AUDIO HD/SD SDI terminal (IN1 or IN2) and SDI input (1 or 2) is selected.

- You have to choose a group of selectable audio channels before the channel selection. (☞ "E.AUDIO GROUP" in "AUDIO SETTING" on page 14)
- When a DUAL LINK SDI signal is input, it is assigned to SDI 1.
- The setting is memorized for each input (SDI 1 and SDI 2).

1 Press ◀ or ▷ button when a menu is not displayed.

The screen for audio channel selection is displayed.

- The screen for audio channel selection automatically disappears in about 30 seconds after the previous operation.

Audio channel selection screen



2 Press △ ▽ buttons to select the left (L ch) or right (R ch).

3 Press ◀▷ buttons to select an audio channel.

- Each time you press the button, the audio channel changes according to the settings of "E.AUDIO GROUP." (☞ "NOTE" on page 14)

4 Press MENU button.

The screen for audio channel selection disappears.

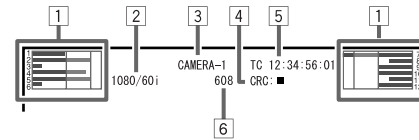
Using the audio level meter

You can check the conditions of the current EMBEDDED AUDIO signals in the audio level meter. (☞ "On the Information Display" on the right, "LEVEL METER SETTING" in "AUDIO SETTING" on page 14)

On the Information Display

The monitor displays the information below.

- Make the setting to display/hide each information using the MENU with the exception of [5], controlled with T.C. button (☞ [14] on page 6).
- Select the position of the information display. (☞ "POSITION" in "INFORMATION" on page 19)



1 Audio level meter

- Not displayed when "LEVEL METER ch" is set to "OFF." (☞ "AUDIO SETTING" on page 14)

2 Signal format

- Displayed when "STATUS DISPLAY" is set to "ON." (☞ "INFORMATION" on page 19)
- For the contents displayed, see "Available signals" and "On the signal format" on page 10.

3 Source name assigned in "CHARACTER SET."

- Displayed when "SOURCE ID" is set to "ON" or "AUTO."
- Displayed in large letters when "STATUS DISPLAY" is set to "OFF" or "AUTO." (☞ "INFORMATION" on page 19)

4 CRC error indication

- Displayed when "CRC ERROR" is set to "ON." (☞ "INFORMATION" on page 19)
- A red square is displayed when an error occurs.

5 Time code

- When the input signal includes no time code, "TC --:--:--:--" is displayed (☞ [14] on page 6).

6 Data format

- Displayed when "STATUS DISPLAY" (☞ "INFORMATION" on page 19) is set to "ON" and SDI signal is input (not all SDI signals). (☞ "CLOSED CAPTION" on page 16)

On the Status Display

If you press the INPUT SELECT button (☞ [15] on page 6) currently lit, the status of the input signal and setting of muting are displayed for about 3 seconds.

- Make the setting to display/hide the status in "STATUS DISPLAY" of the "INFORMATION" (☞ page 19).
- When "STATUS DISPLAY" is set to "AUTO" or "ON," the status below is also displayed in the following cases:
 - When you change the input
 - When the signal condition of the current input changes
 - When you turn on the monitor
- When "STATUS DISPLAY" is set to "ON," the signal format will remain displayed 3 seconds after the status is displayed.



1 Signal format

- For the contents displayed, see "Available signals" and "On the signal format" on page 10.

2 Signal format of DVI input

☞ "DVI INPUT SEL." on page 20

Status indication of DUAL LINK/3G SDI signal information

☞ "NOTE" on page 11

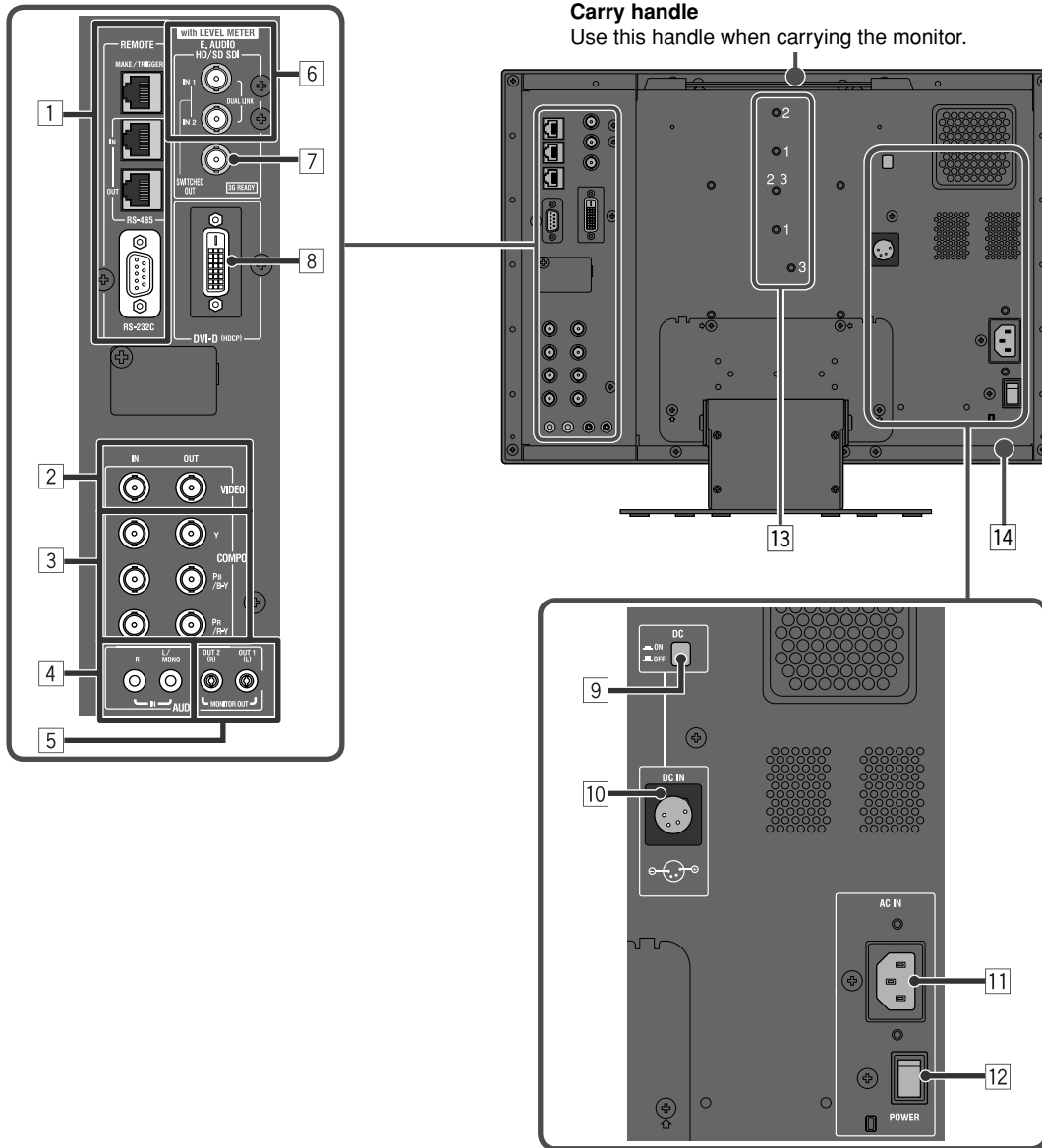
3 Detailed information of 3G SDI signal input

- Displays the sampling structure/pixel resolution of the signal format.
- Displayed when the 3G SDI signal is input.

4 Setting of "MUTING"

- Displayed only when muting is activated (☞ [4] on page 6).

Rear panel



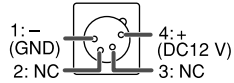
Carry handle
Use this handle when carrying the monitor.

CAUTION
Do not connect the power cord until all other connections are completed.

- 1 **REMOTE terminal**
Terminal for controlling the monitor by an external control. (☞ “External Control” on page 21)
- 2 **VIDEO terminals (BNC)**
Input (IN) and output (OUT) terminals for the composite video signals.
- 3 **COMPO. (Y, Pb/B-Y, Pr/R-Y) terminals (BNC)**
Input (IN) and output (OUT) terminals for the analog component video (color difference) signals.
- 4 **AUDIO (IN) terminals (pin jack)**
Input terminals for the analog audio signals.
 - Use this terminal for the analog audio connection of the SDI. When a superimposed signal (EMBEDDED AUDIO signal on an SDI signal) is input, analog audio signals cannot be input.
- 5 **AUDIO (MONITOR OUT) terminals (pin jack)**
Output terminals for the analog audio signal.
 - The terminals emit the audio signals through the AUDIO (IN) terminal or EMBEDDED AUDIO signals through the E. AUDIO HD/SD SDI (IN 1 or IN 2) input terminal.
 - The signal is output from this terminal only when the monitor is on or in “P.SAVE” (power save) mode. (☞ “NO SYNC ACTION” in “SYNC FUNCTION” on page 15)
 - The EMBEDDED AUDIO signal...
 - is decoded into an analog signal, then emitted.
 - is emitted only when “SDI 1” or “SDI 2” is selected, and when EMBEDDED AUDIO signals come in to the E. AUDIO HD/SD SDI (IN 1 or IN 2) terminal.
- 6 **E. AUDIO HD/SD SDI (IN 1, IN 2) terminals (BNC)**
Input terminals for the HD/SD SDI signals.
 - The terminals accept also EMBEDDED AUDIO signals including up to 12 audio channels with a sampling frequency of 48 kHz.
 - Use both terminals when selecting DUAL LINK SDI for the input.
- 7 **E. AUDIO HD/SD SDI (SWITCHED OUT) terminal (BNC)**
Output terminal for the HD/SD SDI signals.
 - The SDI signals of the current input (SDI 1 or SDI 2) are re-clocked, then emitted.
 - When an input other than SDI 1 and SDI 2 is selected, the SDI signal of the input selected last time is emitted from this terminal.
 - The signals are emitted from this terminal only when the monitor is on or in “P.SAVE” (power save) mode.
 - No signals are emitted when DUAL LINK SDI is selected for the input.
- 8 **DVI-D (HDCP) terminal**
Input terminal for the DVI-D signal compatible with HDCP.
 - When the picture is not displayed correctly, change the setting of “DVI INPUT SEL.” (☞ page 20).
- 9 **DC switch**
Turns the DC 12 V power on or off.
 - You need to press / button (☞ 17 on page 6) on the front panel to turn on the monitor after turning on the DC switch.
 - The monitor consumes the battery even while the monitor is on standby. To save battery life, turn off the DC switch.

10 DC IN 12V terminal

DC 12 V (maximum DC 17 V) power input connector.



When using DC 12 V power (maximum DC 17 V), check the DC IN 12V terminal pin signal, and use the correct polarity. If the polarity is reversed, this could cause a fire or personal injury.

- While using both the AC and DC 12 V power supply, AC power supply is preferentially used. If the AC power supply is cut off (for example, when turning off the POWER switch), the power supply automatically switches to the DC 12 V power supply.

11 AC IN terminal



AC power input connector.

Connect the provided AC power cord to an AC outlet.

- Attach the provided power cord holder to prevent accidental disconnection of the AC power cord. (☞ “Attaching the power cord holder” on page 9)

12 POWER switch

Turns AC power on or off.

- You need to press  /  button (☞ 17 on page 6) to use the monitor after turning on the POWER switch.

13 Screw holes for external battery attachment

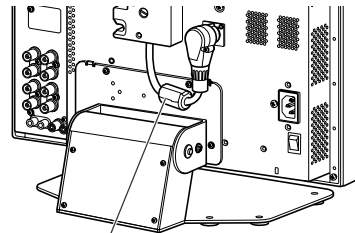
Attach external battery for DC 12 V power supply by using 2 screw holes. Choose the appropriate screw holes from 1, 2 or 3 according to the type of external battery.

- Use the Anton Bauer Dionic 90 (mount: QR DXC-M3A) external battery.

CAUTION

- Do not use the external battery for DC 24 V power supply.
- Use only the battery specified above. If a heavy battery is used, it may fall off depending on the way the monitor is used.
- When an external battery is attached, attach the ferrite core (provided) to the power cord from the mount as illustrated below.

Ex.: When the Anton Bauer mount (QR DXC-M3A) is used



Ferrite core

14 Security slot

Attach a security wire to this slot.

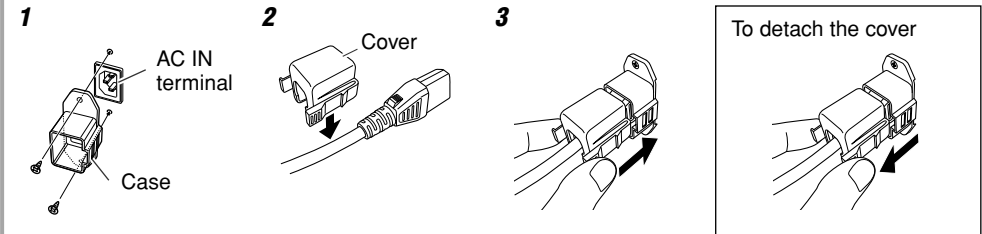
Note for connections

- Before making any connections, turn off all the equipment.
- Use a cord whose plugs correctly match the terminals on this monitor and the equipment.
- Plugs should be firmly inserted; poor connections could cause noise.
- When unplugging a cord, be sure to grasp its plug and pull it out.
- DO NOT connect the power cord until all connections are complete.
- Refer also to the user manual of each piece of equipment.

Attaching the power cord holder

The provided power cord holder prevents accidental disconnection of the AC power cord from the AC IN terminal.

- The power cord holder consists of two parts, a case and a cover.



CAUTION

- Use only the provided screws.
- Make sure the plug will not be pulled out after the cover is attached to the case.

Daily Operations / Connections (cont.)

■ **Available signals** The following signals are available for this monitor.

Video signals

| No. | Signal name | Signal format shown in the status display (see page 7) | Input terminal | | | | | |
|-----|----------------|--|----------------|----------------------------|-----------------------------|--------|-----------|--|
| | | | VIDEO | COMPO.(Analog component)*1 | E. AUDIO SDI (IN 1, IN 2)*2 | | | DVI-D (HDCP) (Digital component/digital RGB) |
| | | | | | SD/HD (1.5G) | 3G SDI | DUAL LINK | |
| 1 | NTSC | NTSC | √ | — | — | — | — | — |
| 2 | PAL | PAL | √ | — | — | — | — | — |
| 3 | B/W50 | B/W50 | √ | — | — | — | — | — |
| 4 | B/W60 | B/W60 | √ | — | — | — | — | — |
| 5 | 480/60i | 480/60i | — | √ | √ | — | — | √ |
| 6 | 480/59.94i | 480/59.94i | — | √ | √ | — | — | √ |
| 7 | 576/50i | 576/50i | — | √ | √ | — | — | √ |
| 8 | 480/60p | 480/60p | — | √ | — | — | — | √ |
| 9 | 480/59.94p | 480/59.94p | — | √ | — | — | — | √ |
| 10 | 576/50p | 576/50p | — | √ | — | — | — | √ |
| 11 | 640*480/60p | 640*480/60p | — | — | — | — | — | √ |
| 12 | 640*480/59.94p | 640*480/59.94p | — | — | — | — | — | √ |
| 13 | 720/60p | 720/60p | — | √ | √ | √ | — | √ |
| 14 | 720/59.94p | 720/59.94p | — | √ | √ | √ | — | √ |
| 15 | 720/50p | 720/50p | — | √ | √ | √ | — | √ |
| 16 | 720/30p | 720/30p | — | √ | √ | √ | — | — |
| 17 | 720/29.97p | 720/29.97p | — | √ | √ | √ | — | — |
| 18 | 720/25p | 720/25p | — | √ | √ | √ | — | — |
| 19 | 720/24p | 720/24p | — | √ | √ | √ | — | — |
| 20 | 720/23.98p | 720/23.98p | — | √ | √ | √ | — | — |
| 21 | 1080/60i | 1080/60i | — | √ | √ | √ | √ | √ |
| 22 | 1080/59.94i | 1080/59.94i | — | √ | √ | √ | √ | √ |
| 23 | 1035/60i | 1035/60i | — | √*3 | √ | — | — | √*3 |
| 24 | 1035/59.94i | 1035/59.94i | — | √*4 | √ | — | — | √*4 |
| 25 | 1080/50i | 1080/50i | — | √ | √ | √ | √ | √ |
| 26 | 1080/60p | 1080/60p | — | — | — | √ | √ | √ |
| 27 | 1080/59.94p | 1080/59.94p | — | — | — | √ | √ | √ |
| 28 | 1080/50p | 1080/50p | — | — | — | √ | √ | √ |
| 29 | 1080/30p | 1080/30p | — | √ | √ | √ | √ | √ |
| 30 | 1080/29.97p | 1080/29.97p | — | √ | √ | √ | √ | √ |
| 31 | 1080/25p | 1080/25p | — | √ | √ | √ | √ | √ |
| 32 | 1080/24p | 1080/24p | — | √ | √ | √ | √ | √ |
| 33 | 1080/23.98p | 1080/23.98p | — | √ | √ | √ | √ | √ |
| 34 | 1080/30psF | 1080/30psf | — | √*3 | √*3 | √ | √ | — |
| 35 | 1080/29.97psF | 1080/29.97psf | — | √*4 | √*4 | √ | √ | — |
| 36 | 1080/24psF | 1080/24psf | — | √ | √ | √ | √ | — |
| 37 | 1080/23.98psF | 1080/23.98psf | — | √ | √ | √ | √ | — |
| 38 | 1080/25psF | 1080/25psf | — | — | — | √ | √ | — |

√: Acceptable
—: Not acceptable

*1 Analog component signals are compatible with Y on sync signals.
*2 Compatible with EMBEDDED AUDIO signals.
*3 The signal is recognized as 1080/60i, and the status is displayed as "1080/60i."
*4 The signal is recognized as 1080/59.94i, and the status is displayed as "1080/59.94i."

On the signal format
The following messages appear depending on the type of input signals and their conditions.

When a DVI-D signal protected with HDCP is input
⇒ "*" (at the end of the indication)

When no video signal comes in
⇒ "NO SYNC"

When a noncompliant video signal comes in
⇒ "Out of range"

When "COLOR SYSTEM" (see "FUNCTION SETTING" on page 17) is set to "AUTO" and the noncompliant composite video signals come in
⇒ "OTHERS"

Computer signals (preset)

DVI-D (HDCP) terminals

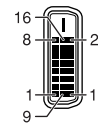
| No. | Signal name | Resolution | | Frequency | | Scan system |
|-----|-------------|------------|----------|------------------|---------------|---------------|
| | | Horizontal | Vertical | Horizontal (kHz) | Vertical (Hz) | |
| 1 | VGA60 | 640 | 480 | 31.5 | 59.9 | Non-interlace |
| 2 | WVGA60 | 852 | 480 | 31.5 | 59.9 | Non-interlace |
| 3 | SVGA60 | 800 | 600 | 37.9 | 60.3 | Non-interlace |
| 4 | XGA60 | 1024 | 768 | 48.4 | 60.0 | Non-interlace |
| 5 | WXGA (1280) | 1280 | 768 | 47.8 | 60.0 | Non-interlace |
| 6 | WXGA+60*1 | 1440 | 900 | 55.9 | 60.0 | Non-interlace |
| 7 | SXGA60*1 | 1280 | 1024 | 64.0 | 60.0 | Non-interlace |
| 8 | WSXGA+60*1 | 1680 | 1050 | 65.2 | 60.0 | Non-interlace |
| 9 | UXGA60*1 | 1600 | 1200 | 75.0 | 60.0 | Non-interlace |
| 10 | WUXGA60*1 | 1920 | 1200 | 74.0 | 60.0 | Non-interlace |
| 11 | 720/60p | 1280 | 720 | 45.0 | 60.0 | Non-interlace |
| 12 | 1080/60p*1 | 1920 | 1080 | 67.5 | 60.0 | Non-interlace |
| 13 | 720/50p | 1280 | 720 | 37.5 | 50.0 | Non-interlace |
| 14 | 1080/50p*1 | 1920 | 1080 | 56.25 | 50.0 | Non-interlace |

*1 When No.6–10, 12 and 14 signals come in, thin lines will become obscured because their signal resolution is higher than the screen resolution.

- Non-preset signals may not be displayed normally even if their frequency is within the acceptable range. (☞ “Horizontal/vertical frequency (computer signal)” on page 26)
- When a preset signal comes in, the signal format is shown on the status display. For other signals, the resolution is shown.

Specification of the DVI-D (HDCP) terminal

Connect it to the DVI-D output terminal on a personal computer.



| Pin No. | Input signal | Pin No. | Input signal | Pin No. | Input signal |
|---------|-----------------------|---------|-----------------------|---------|-----------------------|
| 1 | T.M.D.S Data 2– | 9 | T.M.D.S Data 1– | 17 | T.M.D.S Data 0– |
| 2 | T.M.D.S Data 2+ | 10 | T.M.D.S Data 1+ | 18 | T.M.D.S Data 0+ |
| 3 | T.M.D.S Data 2 shield | 11 | T.M.D.S Data 1 shield | 19 | T.M.D.S Data 0 shield |
| 4 | NC | 12 | NC | 20 | NC |
| 5 | NC | 13 | NC | 21 | NC |
| 6 | DDC Clock | 14 | +5 V Power | 22 | T.M.D.S Clock shield |
| 7 | DDC Data | 15 | GND | 23 | T.M.D.S Clock+ |
| 8 | NC | 16 | Hot Plug Detect | 24 | T.M.D.S Clock– |

NOTE

Status indication of DUAL LINK/3G SDI signal information

When DUAL LINK and 3G SDI signals come in, the status of DUAL LINK is displayed. When “SDI DUAL LINK” (☞ page 12) in MAIN MENU is set to “OFF” and a 3G SDI signal comes in, the 3G SDI signal information is displayed.

Status indication of DUAL LINK

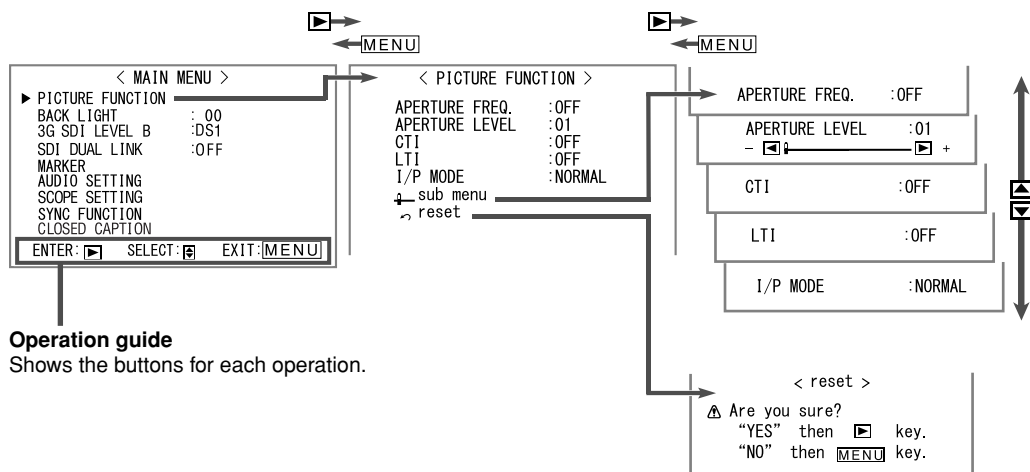
When “SDI DUAL LINK” (☞ page 12) in MAIN MENU is set to “ON” and an SDI signal is selected, “DUAL LINK” is displayed.

Status indication of 3G SDI signal information

Following signal information can be displayed when a 3G SDI signal comes in.

- 3G A-1:** Level A mapping structure 1
- 3G A-2:** Level A mapping structure 2
- 3G A-3:** Level A mapping structure 3
- 3G A-4:** Level A mapping structure 4
- 3G B-DS1:** Level B data stream 1
- 3G B-DS2:** Level B data stream 2
- 3G B-DUAL:** Level B DUAL LINK

For the operation procedure, see page 7.



Operation guide
Shows the buttons for each operation.

- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.

PICTURE FUNCTION

Setting for the picture quality

| Item | To do | Setting value |
|-------------------------|--|-----------------------|
| APERTURE FREQ.*1 | Select the frequency of the luminance signal compensated in "APERTURE LEVEL." | OFF, LOW, HIGH |
| APERTURE LEVEL*1 | Compensate the frequency response of the luminance signal of the video signal. | 01 – 10 |
| CTI | Adjust the clearness of the outlines of the chrominance signal. | OFF, NORMAL, HARD |
| LTI | Adjust the clearness of the outlines of the luminance signal. | OFF, NORMAL, HARD |
| I/P MODE | Selects a proper mode corresponding to the input picture. | NORMAL, CINEMA, FIELD |
| sub menu | Display the sub menu which enables you to adjust the items of "PICTURE FUNCTION" while viewing the actual picture. | |
| reset | Restore the default settings for all the items in "PICTURE FUNCTION." | |

*1 Memorized for each input.

BACK LIGHT Setting value: -20 – +20

Adjusts the brightness of the display.

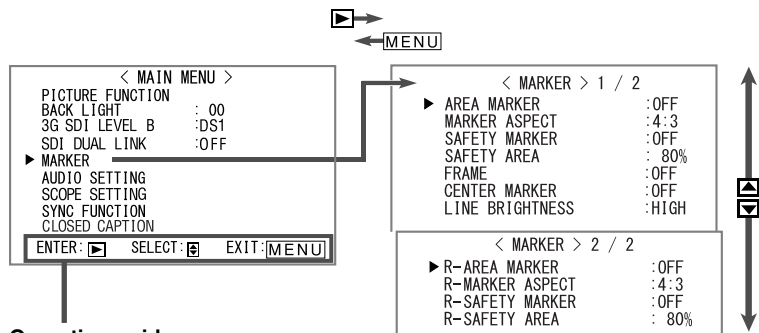
3G SDI LEVEL B Setting value: DS1, DS2

Selects the data stream from two HD SDI signals multiplexed when a 3G SDI level B signal comes in.

SDI DUAL LINK Setting value: OFF, ON

Activates/deactivates the DUAL LINK function of SDI signals.

- "DUAL LINK" is displayed when the setting is set to "ON." No other status indications of SDI signals are displayed.
- Set this setting to "OFF" when an SDI signal other than DUAL LINK SDI is input.



Operation guide
Shows the buttons for each operation.

- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.

NOTE

Setting of “AREA MARKER”, “SAFETY MARKER”, “R-AREA MARKER”, “R-SAFETY MARKER”

The setting values and features are as follows.

- OFF:** Deactivate the marker.
- LINE:** Displays the area with an outline.
- HALF:** The area outside the specified aspect ratio of the screen is displayed at 50% transparency.
- HALF+L:** The area of the specified aspect ratio of the screen is indicated by an outline, and the area outside of that is displayed at 50% transparency.
- BLK.:** The area outside the specified aspect ratio of the screen is black. Only the portion of the picture within the designated area is displayed.
- BLK. +L:** The area of the specified aspect ratio of the screen is indicated by an outline, and the area outside of that becomes black so that only the area inside the line is displayed.

MARKER*1*2

Settings for marker functions

1/2

| Item | To do | Setting value |
|------------------------|---|---|
| AREA MARKER*3 | Activate/deactivate the area marker and select the style of it. | ☞ “NOTE” |
| MARKER ASPECT*3 | Select the aspect ratio of the area marker. | 4:3, 14:9, 13:9, 2.35:1, 1.85:1, 1.66:1 |
| SAFETY MARKER | Activate/deactivate the safety marker and select the style of it. | ☞ “NOTE” |
| SAFETY AREA | Adjust the area of the safety marker. | 80% – 100% |
| FRAME | Displays/hides the frame indicating the area of the specified aspect ratio. | OFF, ON |
| CENTER MARKER | Displays/hides the marker indicating the center position of the picture. | OFF, ON |
| LINE BRIGHTNESS | Adjust the brightness of the marker. | HIGH, LOW |

2/2

| Item | To do | Setting value |
|--------------------------|---|---|
| R-AREA MARKER*3 | Activate/deactivate the area marker and select the style of it. | ☞ “NOTE” |
| R-MARKER ASPECT*3 | Select the aspect ratio of the area marker. | 4:3, 14:9, 13:9, 2.35:1, 1.85:1, 1.66:1 |
| R-SAFETY MARKER | Activate/deactivate the safety marker and select the style of it. | ☞ “NOTE” |
| R-SAFETY AREA | Adjust the area of the safety marker. | 80% – 100% |

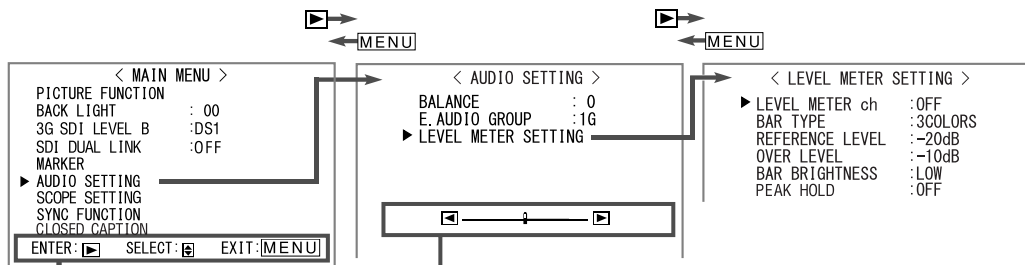
- The area marker or the safety marker is displayed by using AREA MARKER or SAFETY MARKER button, or external control.
- Select either non-“R-” items or “R-” items to activate by using external control. (☞ “External Control” on page 21)
- When a picture is displayed in 4:3 aspect ratio, the safety marker for the 4:3 area is displayed.
- To display the safety marker for the area of a picture displayed in 16:9 aspect ratio, hide the area marker (☞ “NOTE”).

*1 Memorized for each input.

*2 Not displayed when picture is displayed in the 1:1 mode.

*3 Displayed only when picture is displayed in 16:9 aspect ratio.

For the operation procedure, see page 7.



Adjustment bar
Displayed when selecting "BALANCE."

Operation guide
Shows the buttons for each operation.

- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.

NOTE

Settings of "E.AUDIO GROUP"

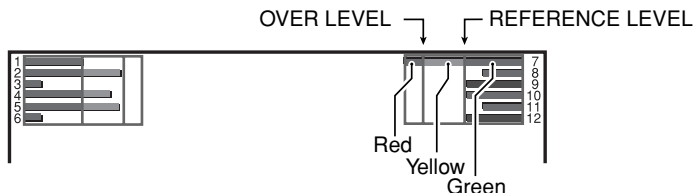
The setting values and selectable audio channels of EMBEDDED AUDIO signals are as follows.

(G means GROUP)

- 1G:** channel(s) 1/2/3/4/1+2/3+4/1 – 4 (1G)
- 2G:** channel(s) 5/6/7/8/5+6/7+8/5 – 8 (2G)
- 1-2G:** channel(s) 1/2/3/4/5/6/7/8/1+2/3+4/5+6/7+8/1 – 4 (1G)/5 – 8 (2G)/1 – 8 (1G+2G)
- 3G:** channel(s) 9/10/11/12/9+10/11+12/9 – 12 (3G)
- 1-3G:** channel(s) 1/2/3/4/5/6/7/8/9/10/11/12/1+2/3+4/5+6/7+8/9+10/11+12/1 – 4 (1G)/5 – 8 (2G)/9 – 12 (3G)/1 – 8 (1G+2G)/1 – 12 (1-3G)

Example of the level meter display—Level meter position and audio channels

Ex.: When "LEVEL METER ch" is set to "LINE" and "BAR TYPE" is set to "3COLORS"



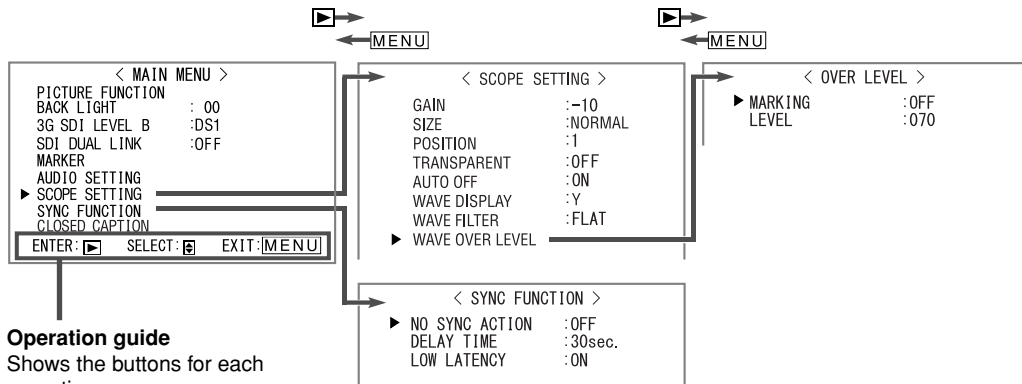
- The level meter with no audio signal input is displayed in white for "3COLORS", and in gray for "W.100."
- You can select the position of the level meter display—top or bottom of the screen. (See "POSITION" in "INFORMATION" on page 19)
- When "PEAK HOLD" is set to "ON," the maximum level meter value will remain displayed for a set period of time. (At the time the signal input level reaches the highest value.)

AUDIO SETTING

Settings for the audio output balance, EMBEDDED AUDIO signals and level meter

| Item | To do | Setting value |
|------------------------------|--|--|
| BALANCE | Adjust the balance between the right and left speakers. | L5 – L1, 0, R1 – R5 |
| E.AUDIO GROUP*1 | Select the audio channel group of the EMBEDDED AUDIO signals. | ☞ "NOTE" |
| LEVEL METER SETTING*1 | Adjust the level meter display for the EMBEDDED AUDIO signals. | ☞ "NOTE" |
| LEVEL METER ch | Select how the audio channels are displayed on the level meter. | OFF, LINE (Displays the channels 1 – 6 at the left of the screen and 7 – 12 at the right.), DIVIDE (Displays the odd channels at the left of the screen and the even channels at the right.) |
| BAR TYPE | Select the color of the level meter display. | 3COLORS (3 colors to indicate variations in input levels), W.100 (white) |
| REFERENCE LEVEL | Select the standard input level indicated on the level meter. | –20dB, –18dB |
| OVER LEVEL | Select the input level's lower limit indicated in red for the "3COLORS" display. | –10dB, –8dB, –6dB, –4dB, –2dB |
| BAR BRIGHTNESS | Select the brightness of the level meter. | LOW, HIGH |
| PEAK HOLD | Activates/deactivates the peak hold function of the level meter. | OFF, ON |

*1 Memorized for each input.



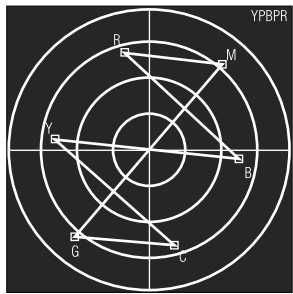
Operation guide
Shows the buttons for each operation.

- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.

NOTE

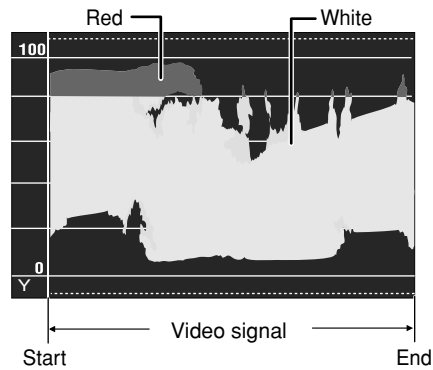
Example of the vector scope

Ex.: When the color bar is displayed



Example of the wave form monitor

Ex.: When the luminance signal is Y, "MARKING" is set to "ON" and "LEVEL" is set to "080"



- The wave which goes over the value set on "LEVEL" is indicated in Red.
- The display differs depending on the input signal or the setting of "WAVE DISPLAY."

SCOPE SETTING*1

Settings for the wave form monitor and vector scope

| Item | To do | Setting value |
|------------------------|---|---|
| GAIN | Adjust the gain level for the incoming wave form data. | -10 – +10 |
| SIZE *2 | Select the size of the wave form monitor and vector scope window. | NORMAL, LARGE |
| POSITION *2 | Select the position of the wave form monitor and vector scope window. | 1 (lower right), 2 (lower left), 3 (upper left), 4 (upper right) |
| TRANSPARENT | Activates/deactivates the function to make the window translucent. | ON (translucent), OFF (normal) |
| AUTO OFF | Activates/deactivates the function to make the wave form monitor and vector scope window go off automatically 15 minutes after displaying it. | ON, OFF |
| WAVE DISPLAY | Select the wave form for the wave form monitor. | Y/Pb/Pr (HD signals) Y/Cb/Cr (SD signals) R/G/B (RGB signals) |
| WAVE FILTER | Activates/deactivates the low-pass filter for the incoming wave form data. | FLAT (no filter), LOWPASS |
| WAVE OVER LEVEL | Adjust the over level for the incoming luminance (Y) and RGB signals. | ※ "NOTE" |
| MARKING | Activates/deactivates the function to change the color of a wave form when the signal exceeds the limit specified on "LEVEL" (※ below). | OFF, ON |
| LEVEL | Adjust the lower limit for the over level. | 070 – 109 |

*1 Wave form monitor does not work for DVI signals (PC input).

Vector scope does not work for RGB signals.

*2 When you set "SIZE" to "LARGE," the window is displayed in the center of the screen regardless of the "POSITION" setting.

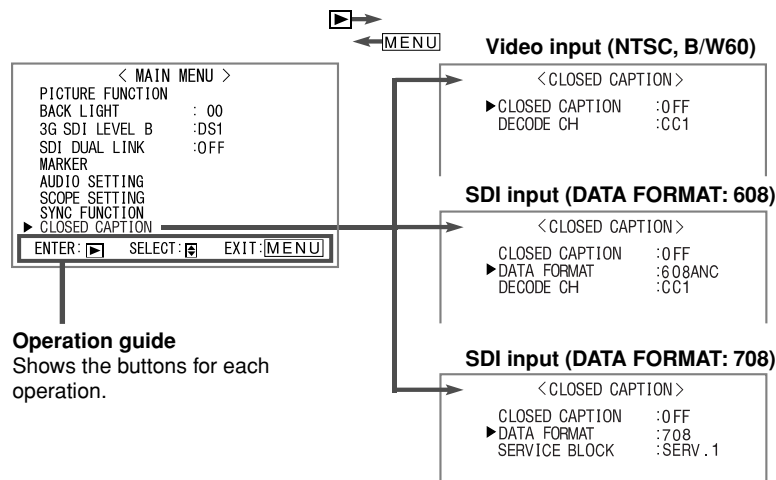
SYNC FUNCTION

Settings for the synchronization with signals

| Item | To do | Setting value |
|-----------------------|--|--|
| NO SYNC ACTION | Select the screen status when no signal is coming in. | OFF, P.SAVE (power save mode), GRAY B. (gray screen) |
| DELAY TIME | Select the period until the screen status changes as selected in "NO SYNC ACTION" after signals stop coming in. | 30sec., 5min., 15min. |
| LOW LATENCY | Activates/deactivates the function to shorten the time taken to display the picture (low latency function). • If the picture is not displayed steadily while "ON" is selected, select "OFF." • While "ON" is selected, the displayed picture may become unstable when an operation using buttons on the front panel or the menu is performed, or when the signal format changes. | ON, OFF |

- When setting "NO SYNC ACTION" to "GRAY B.," the screen color changes to gray and the power consumption of the back light is saved by half. Selecting "P.SAVE" (power save mode) saves more power consumption by turning off the back light.

For the operation procedure, see page 7.



- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.

CLOSED CAPTION*1

Settings for CLOSED CAPTION functions

| Item | To do | Setting value |
|-----------------------|---|--|
| CLOSED CAPTION | Activate/deactivate the closed caption. | OFF, ON |
| DATA FORMAT | Select the data format of closed caption. | 708, 608ANC, 608(708), 608VBI*2 |
| DECODE CH | Selects the type of closed caption. | CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, TEXT4 |
| SERVICE BLOCK | Selects the type of service block. | SERV.1, SERV.2, SERV.3, SERV.4, SERV.5, SERV.6 |

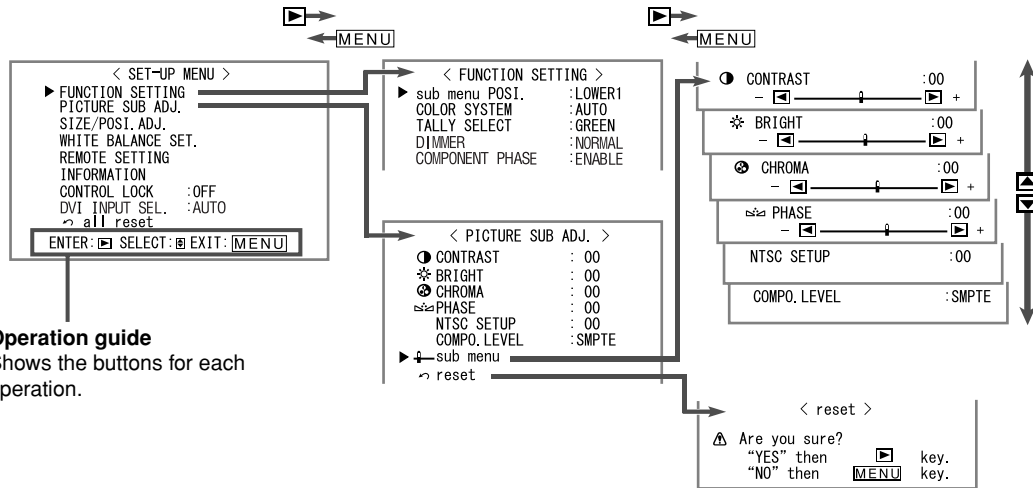
- CLOSED CAPTION does not work for the video input formats PAL and B/W50.
- CLOSED CAPTION does not work for the COMPO./DVI input.
- CLOSED CAPTION does not work for the SDI input formats 1035/60i, 1035/59.94i, 1080/60p, 1080/59.94p, 1080/50p and 3G SDI Level A.
- Depending on the signal format, there maybe a case that the closed captions are not displayed properly.
- When using the 1:1 mode, closed captions may not be displayed properly.

*1 Memorized for each input.

*2 Displayed only when SD SDI signal is input.

Menu Configuration—SET-UP MENU

For the operation procedure, see page 7.



Operation guide
Shows the buttons for each operation.

- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.

NOTE

Settings of "sub menu POSI."

The setting values and features are as follows.

- LOWER1:** Displays the current setting and adjustment bar at the lower part of the screen.
- UPPER1:** Displays the current setting and adjustment bar at the upper part of the screen.
- LOWER2:** Displays the current setting at the lower part of the screen.
- UPPER2:** Displays the current setting at the upper part of the screen.

- The adjustment bar is not displayed for some items.

FUNCTION SETTING

Settings for the sub menu display, color system, color of the tally lamp, intensity of the button lamps and the PHASE adjustment.

| Item | To do | Setting value |
|------------------------|---|-----------------|
| sub menu POSI. | Select the contents and displaying position of "sub menu." | ※ "NOTE" |
| COLOR SYSTEM | Select the color system. • If the picture is unstable with "AUTO," select "PAL" or "NTSC." | AUTO, NTSC, PAL |
| TALLY SELECT | Select the color of the tally lamp. | GREEN, RED |
| DIMMER | Select the intensity of the button lamps. | NORMAL, DARK |
| COMPONENT PHASE | Deactivates the function of PHASE adjustment (Picture adjustment knob and "PICTURE SUB ADJ." in SET-UP MENU) except when an NTSC signal comes in (※ 3 on page 6). | ENABLE, DISABLE |

PICTURE SUB ADJ.

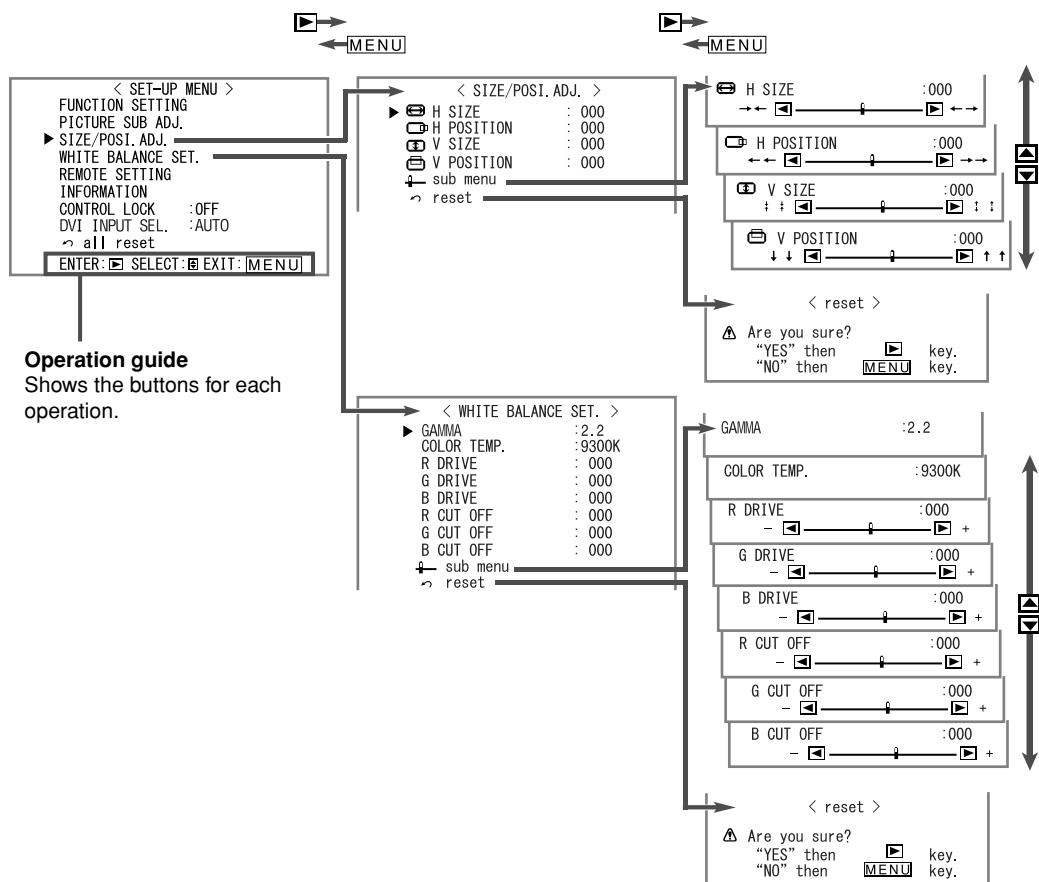
Adjusts the standard level for the picture adjustment and selects the set-up level for the input video signal.

| Item | To do | Setting value |
|---------------------|--|--|
| CONTRAST*1 | Adjust the standard level for the contrast adjusted with the CONTRAST knob on the front panel. | -20 - +20 |
| BRIGHT*1 | Adjust the standard level for the brightness adjusted with the BRIGHT knob on the front panel. | -20 - +20 |
| CHROMA*1 | Adjust the standard level for the chroma adjusted with the CHROMA knob on the front panel. | -20 - +20 |
| PHASE*1, *2 | Adjust the standard level for the phase adjusted with the PHASE knob on the front panel. | -20 - +20 |
| NTSC SETUP | Select 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) |
| COMPO. LEVEL | Select the level of the analog component signal (480i and 576i only). | B75 (compliant with BetacamVTR 7.5% set-up signal), B00 (compliant with BetacamVTR 0% set-up signal), SMPTE (compliant with M2VTR signals) |
| sub menu | Display the sub menu which enables you to adjust the items in "PICTURE SUB ADJ." while viewing the actual picture. | |
| reset | Restore the default settings for all the items in "PICTURE SUB ADJ." | |

*1 Memorized for each input.

*2 When "COMPONENT PHASE" is set to "DISABLE" and an NTSC signal is input, PHASE can be adjusted.

For the operation procedure, see page 7.



Operation guide
Shows the buttons for each operation.

SIZE/POSI. ADJ.

Adjusts the size and position of the picture.

| Item | To do | Setting value |
|---------------------|---|--|
| H SIZE*1 | Adjust the horizontal picture size. | Setting value varies depending on the signals. |
| H POSITION*1 | Adjust the horizontal picture position. | |
| V SIZE*1 | Adjust the vertical picture size. | |
| V POSITION*1 | Adjust the vertical picture position. | |
| sub menu | Display the sub menu which enables you to adjust the items of "SIZE/POSI. ADJ." while viewing the actual picture. | |
| reset | Restore the default settings for all the items in "SIZE/POSI. ADJ." | |

*1 Memorized for each signal format.

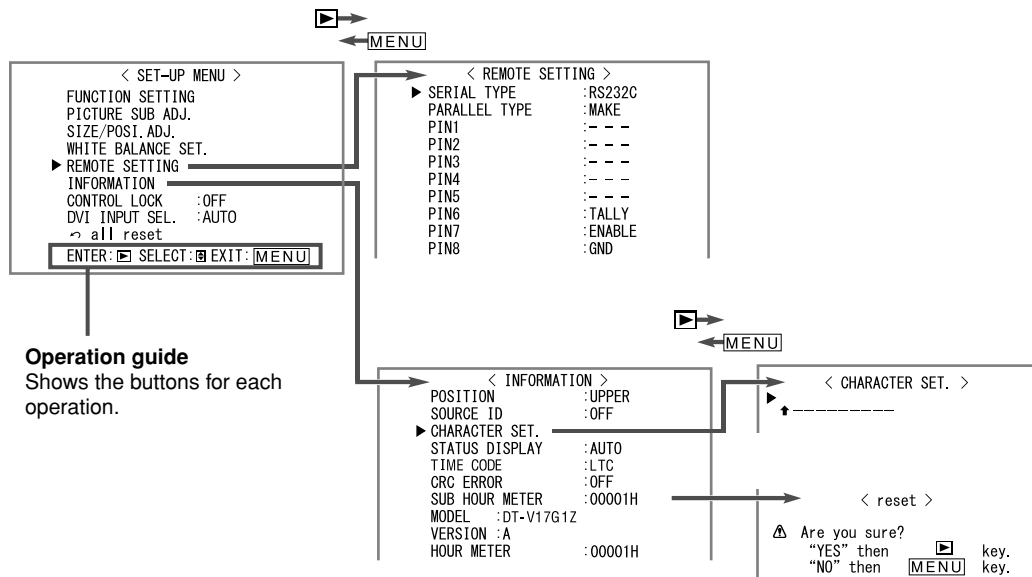
WHITE BALANCE SET.

Selects the GAMMA correction value, color temperature and adjusts the drive level and cutoff point of each color (R/G/B).

| Item | To do | Setting value |
|--|--|--|
| GAMMA | Select the GAMMA correction value. | 2.2 (equivalent to Y 2.2) 2.35 (equivalent to Y 2.35) 2.45 (equivalent to Y 2.45) 2.6 (equivalent to Y 2.6) |
| COLOR TEMP. | Select the color temperature. | 9300K, 6500K, USER |
| R DRIVE G DRIVE B DRIVE*2 | Adjust the drive level of each color (red, green, and blue). | MIN – 000 – MAX (in 256 grades) |
| R CUT OFF G CUT OFF B CUT OFF*2 | Adjust the cutoff point of each color (red, green, and blue). | MIN – 000 – MAX (in 256 grades) |
| sub menu | Display the sub menu which enables you to adjust the items in "WHITE BALANCE SET." while viewing the actual picture. | |
| reset | Restore the default settings for the drive levels and cutoff points of the selected color temperature. | |

*2 Memorized for each color temperature.

- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.



Operation guide
Shows the buttons for each operation.

- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.

NOTE

Setting of "CHARACTER SET.:"

Assign a name for each video source.

- 1 Change the input to one that you want to assign a video source name for.
- 2 Select "CHARACTER SET.:"
- 3 Press Δ / ∇ buttons to select the first character.
 - Each time you press Δ button, the character changes as follows. Press ∇ button to reverse the order.

→ Space → 0 - 9 → A - Z → a - z → &()*+,-./:<>_
- 4 Press \triangleright button to move the arrow to the next space.
 - The characters entered before moving the arrow are memorized.
- 5 Repeat steps 3 and 4 (10 characters at maximum).
- 6 Press MENU button to store the name.

REMOTE SETTING (☞ "External Control" on pages 21 to 23)

Settings for the external control

| Item | To do | Setting value |
|---|--|--|
| SERIAL TYPE | Select the input terminal used for external control by serial communication. | RS232C, RS485 |
| PARALLEL TYPE | Select the external control method for the MAKE/TRIGGER terminal. | MAKE, TRIGGER, SET |
| PIN1 PIN2 PIN3 PIN4 PIN5 | Assign the control functions to the pins of the MAKE/TRIGGER terminal. <ul style="list-style-type: none"> • Assign a function to each pin terminal by selecting "SET" in "PARALLEL TYPE" mentioned above. (The functions are assigned for "PIN6" – "PIN8" and you cannot change the assignment of these functions.) | ☞ "Functions controlled by the MAKE/TRIGGER system" on page 22 |

INFORMATION

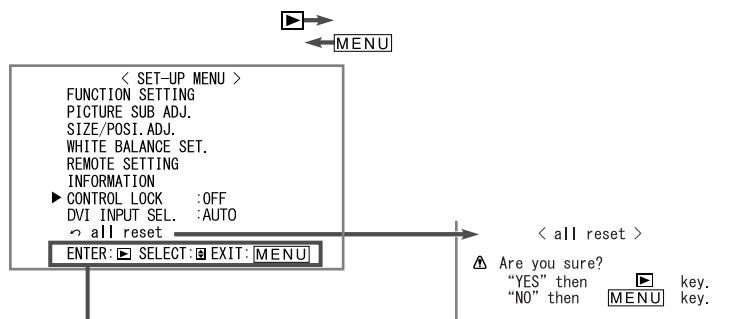
Settings for the information display of the monitor

| Item | To do | Setting value |
|-------------------------|--|-----------------------|
| POSITION | Select the position to show the information display. (☞ "On the Information Display" on page 7) | UPPER, LOWER |
| SOURCE ID | Select whether the name assigned in "CHARACTER SET.:" is displayed on the screen. (☞ "On the Information Display" on page 7) <ul style="list-style-type: none"> • When "AUTO" is selected, the display color synchronizes with the color of the tally lamp while the tally lamp is lit. | OFF, ON, AUTO |
| CHARACTER SET.*1 | Assign a name to each video source as you like (10 characters at maximum). You can also enter a name using the RS-232C system. | ☞ "NOTE" |
| STATUS DISPLAY | Select whether the status of the current input and the setting of muting are displayed on the screen. (☞ "On the Status Display" on page 7) | AUTO, OFF, ON |
| TIME CODE | Select the type of the TIME CODE display. | VITC*2, LTC*2, D-VITC |
| CRC ERROR | Select whether the CRC error indication for the input HD SDI signal is displayed on the screen. (☞ "On the Information Display" on page 7) | ON, OFF |
| SUB HOUR METER | Display the hours of use (unit: hour). You can reset this item. | |
| MODEL | Display the model name of the monitor. | |
| VERSION | Display the version of the monitor. | |
| HOUR METER | Display the total hours of use (unit: hour). This item is used for maintenance of the monitor. You cannot reset this item. | |

*1 Memorized for each input.

*2 Ancillary time code

For the operation procedure, see page 7.



Operation guide
Shows the buttons for each operation.

- The menu automatically disappears in about 30 seconds after the previous operation.
- Some items may not appear on the menu depending on the input or the input signal.
- The items controlled by the MAKE system do not appear on the menu.

CONTROL LOCK Setting value: OFF, VOL.LOCK, ALL LOCK

Settings for disabling the buttons on the front panel.

- The following operations are not available when "VOL.LOCK" is selected.
 - VOLUME adjustment knob
 - Picture adjustment knob
 - The "ALL LOCK" function disables to control the buttons on the front panel. But following operations are available.
 - Turning on/off (on standby) the monitor
 - Displaying the SET-UP MENU (by pressing < button while holding ▽ button) and turning "CONTROL LOCK" to "OFF"
 - Operating the monitor by an external control
- If you try other operations, "🔒 Control lock on!" appears on the screen.

DVI INPUT SEL. Setting value: AUTO, COMPO., RGB, PC

When "AUTO" is selected, the format of signals come in to the DVI-D (HDCP) terminal is automatically recognized. (Normally, select "AUTO.")

- Select "COMPO.," "RGB" or "PC" when the picture is not displayed correctly with "AUTO."
- DVI-D input of the monitor is compatible with HDCP.

all reset

Restores all the settings and adjustments of the monitor to the default.

- "HOUR METER" and the settings done by using the adjustment knobs on the front panel will not be reset.
- When you operate the monitor with the AC power supply, the monitor is turned off (on standby) then turned on automatically. When you operate the monitor with the DC 12 V power supply, the monitor is turned off (on standby).

External Control

About the external control

This monitor has three external control terminals.

- **MAKE/TRIGGER terminal** (RJ-45): The following external control systems are available.
 - (1) **MAKE (make contact) system**: Controls the monitor by short-circuiting the corresponding pin terminal to the GND pin terminal, or disconnecting (opening) it.
 - (2) **TRIGGER (trigger) system**: Controls the monitor by sending the pulse signal instantaneously to the corresponding pin terminal.

☞ "Using the MAKE/TRIGGER system" on the right
- **RS-485 terminals** (RJ-45): Controls the monitor with the RS-485 system. (☞ "Using the serial communication" on page 22)
- **RS-232C terminal** (D-sub 9-pin): Controls the monitor with the RS-232C system. (☞ "Using the serial communication" on page 22)

Set the following items of "REMOTE SETTING" in SET-UP MENU according to the external control terminal and control system. (☞ "SERIAL TYPE," "PARALLEL TYPE" on page 19)

| Control terminal | Control system | | The settings of this unit | |
|-----------------------|----------------------|---------|---------------------------|-------------------------|
| | | | "SERIAL TYPE" setting | "PARALLEL TYPE" setting |
| MAKE/TRIGGER terminal | MAKE | | — | MAKE |
| | TRIGGER | | — | TRIGGER |
| RS-485 terminal | Serial communication | RS-485 | RS485*1 | — |
| RS-232C terminal | | RS-232C | RS232C*1 | — |

*1 For a monitor connected to a personal computer etc, select the terminal the equipment is actually connected to. For other monitors, select "RS485."

Control priority is as follows.

MAKE > TRIGGER = serial communication = buttons and menu on the monitor

- You can use external control even when "CONTROL LOCK" is set to "VOL.LOCK" or "ALL LOCK" (☞ page 20).
- When the monitor is off (on standby), external control is not available. But certain external controls (starting/terminating communication, turning on the monitor) are available through the serial communication (☞ page 23).

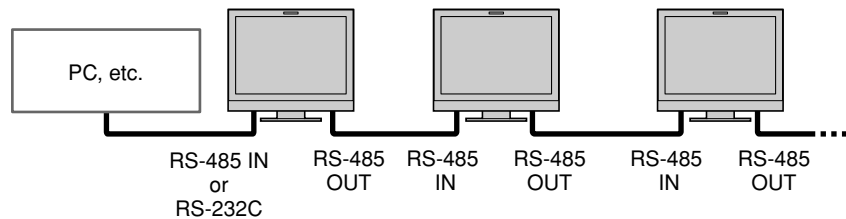
<MAKE/TRIGGER system>

You can control the monitor by a personal computer or dedicated controller*2.

- "Using the MAKE/TRIGGER system" on the right.

*2 The controller is not commercially available. Consult your dealer if you need it.

<Serial communication>

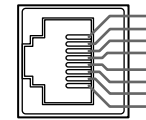


- For the details, see page 22.

Using the MAKE/TRIGGER system

The MAKE/TRIGGER terminal is configured as follows. You can assign a function to each pin terminal in "REMOTE SETTING." (☞ "PIN1, PIN2, PIN3, PIN4, PIN5" in "PARALLEL TYPE" on page 19)

- You cannot change the functions assigned to the pin terminals from 6th to 8th.



This is a female terminal.

| Pin No. | Pin name |
|---------|----------|
| 1 | PIN1 |
| 2 | PIN2 |
| 3 | PIN3 |
| 4 | PIN4 |
| 5 | PIN5 |
| 6 | TALLY*1 |
| 7 | ENABLE*2 |
| 8 | GND |

*1 The 6th pin terminal controls turning on or off the tally lamp (available to control even when the 7th pin terminal is invalid).

*2 The 7th pin terminal makes the external control valid/invalid. Make sure to control the terminal by the MAKE system.

To assign the functions to the pin terminals

For the operation procedure, see page 7.

1 Select "REMOTE SETTING" on the SET-UP MENU.

2 Set "PARALLEL TYPE" to "SET."

3 Select a pin name ("PIN1" – "PIN5") for which you want to assign a function, then select the function you want to assign.

- For the selectable functions, see the table on page 22.

Operation of the external control

1 Set "PARALLEL TYPE" of "REMOTE SETTING" to "MAKE" or "TRIGGER" in the SET-UP MENU.

2 Short-circuit the 7th pin terminal (ENABLE) to the 8th pin terminal (GND) so that the monitor can be controlled by the external control.

3 When the "MAKE" system is selected: Operate each function by short-circuiting the corresponding pin terminal to the 8th pin terminal (GND) or opening it.

When the "TRIGGER" system is selected: Operate each function by pulse control, that is short-circuiting the corresponding pin terminal to the 8th pin terminal (GND) for about 1 second and opening it.

- When changing the input with MAKE system, only one pin terminal must be short-circuited. (Other pin terminals must be opened.)
- When selecting the "TRIGGER" system, you can operate only one function at a time. Operate the functions one by one.

<Functions controlled by the MAKE/TRIGGER system>

| Display | Functions to be controlled | Opening | Short-circuiting |
|-----------|--|-------------------------------------|------------------|
| TALLY SEL | Selects the color of the tally lamp. | Green | Red |
| SDI 1 | Changes the input to "SDI 1." | Invalid | Valid |
| SDI 2 | Changes the input to "SDI 2." | Invalid | Valid |
| DVI | Changes the input to "DVI." | Invalid | Valid |
| COMPONENT | Changes the input to "COMPO." | Invalid | Valid |
| VIDEO | Changes the input to "VIDEO." | Invalid | Valid |
| 3G-B.DS | Selects the "3G SDI LEVEL B" data stream. | DS 1 | DS 2 |
| DUAL LINK | Turns on or off "SDI DUAL LINK." | Off | On |
| A.MARKER | The area marker indication | Off | On |
| S.MARKER | The safety marker indication | Off | On |
| FRAME | Indication of the area of the specified aspect ratio | Off | On |
| C.MARKER | The center marker indication | Off | On |
| MARK.SEL | Selects the items of "MARKER"*1 | Non-"R-" items | "R-" items |
| ASPECT | Changes the aspect ratio. | 4:3 | 16:9 |
| 1:1 | Displays in 1:1 mode. | Off | On |
| STATUS | Status display*2 | ☞ "On the Status Display" on page 7 | |
| L.METER | Audio level meter display | *3 | |
| TIME CODE | Time code display | Off | On |
| SOURCE ID | ☞ "SOURCE ID" in "INFORMATION" on page 19 | *4 | |
| WAVE FORM | Wave form monitor display | *5 | |
| VECTOR | Vector scope display | *5 | |
| C.C | Closed caption display | Off | On |
| COLOR OFF | Color off | Color | Monochrome |
| SCR CHECK | Screens check | *6 | |
| I/P MODE | Change a mode according to a input picture. | *7 | |
| MUTING | Muting on/off | Off | On |
| DIMMER | Change the intensity of the button lamps. | NORMAL | DARK |
| --- | No function | — | — |

*1 Selects which functions in "MARKER" are activated, non-"R-" items or "R-" items. (☞ "MARKER" on page 13)

*2 Displays the information shown when INPUT SELECT button of the current input is pressed (☞ "On the Status Display" on page 7). While controlling with the MAKE system, the information is displayed only at the moment of short-circuiting.

*3 While controlling with the MAKE system, the level meter is switched between displayed (short-circuiting) and hidden (opening). When "LEVEL METER ch" is set to "OFF," the level meter is not displayed ("NO EFFECT" appears).

While controlling with the TRIGGER system, the pattern of the audio channel display is switched.

*4 While controlling with the MAKE system, the available set-up options will be the setting value currently selected in "SOURCE ID" ("ON" or "AUTO" [short-circuiting]) and "OFF" (opening). While controlling with the TRIGGER system, uses the same set-up option as those in the SET-UP MENU. (☞ "SOURCE ID" in "INFORMATION" on page 19)

*5 While controlling with the MAKE system, the wave form monitor and vector scope is switched between displayed (short-circuiting) and hidden (opening) regardless of the "AUTO OFF" setting in the MAIN MANU. While controlling with the TRIGGER system, the screen is switched in the same way as when pressing the SCOPE button (☞ 13 on page 6). If the wave form monitor and vector scope are input at the same time, the wave form monitor is displayed.

*6 While controlling with the MAKE system, the screen is switched between normal screen (opening) and blue screen (short-circuiting). While controlling with the TRIGGER system, the screen changes in the same way as when pressing SCREENS CHECK button (☞ 11 on page 6).

*7 Must be controlled with the TRIGGER system. The mode changes in the order of "NORMAL" → "CINEMA" → "FIELD." (This function cannot be controlled with the MAKE system.)

- You cannot assign the same function to different pin terminals.
- The TRIGGER system switches each function by short-circuiting the pin terminal for about 1 second and opening it.

■ Using the serial communication

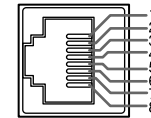
You can control the monitor from a personal computer etc. via the RS-485 or RS-232C terminal.

- Consult your dealer for the details of the external control specification.

<Communication specifications>

| Input terminal | Cable | Terminal specification | Communication specifications |
|----------------|---|------------------------|---|
| RS-485 | A straight LAN cable | ☞ See below | Baud Rate: 4800 bps Data Bits: 8 bits Parity: No parity Stop Bits: 1 bit Flow Control: No control Communication Code: ASCII Code |
| RS-232C | A straight cable with a D-sub 9-pin connector (male for the monitor, female for the personal computer etc.) | | |

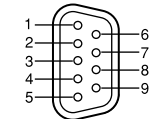
<Specifications of the RS-485 terminal>



This is a female terminal.

| Pin No. | IN terminal signal | OUT terminal signal |
|---------|--------------------|---------------------|
| 1 | TXD + | TXD + |
| 2 | TXD - | TXD - |
| 3 | RXD + | RXD + |
| 4 | NC | NC |
| 5 | NC | NC |
| 6 | RXD - | RXD - |
| 7 | NC | NC |
| 8 | GND | GND |

<Specifications of the RS-232C terminal>



This is a female terminal.

| Pin No. | Signal |
|---------|--------|
| 1 | NC |
| 2 | RXD |
| 3 | TXD |
| 4 | NC |
| 5 | GND |
| 6 | NC |
| 7 | RTS |
| 8 | CTS |
| 9 | NC |

- The 7th terminal and the 8th terminal are connected.

<Command outline>

All commands consist of the following segments.

| | | | | | |
|--------|------------|------------|----------|------|----------|
| Header | Monitor ID | Command ID | Function | Data | Cr (0Dh) |
|--------|------------|------------|----------|------|----------|

On Header

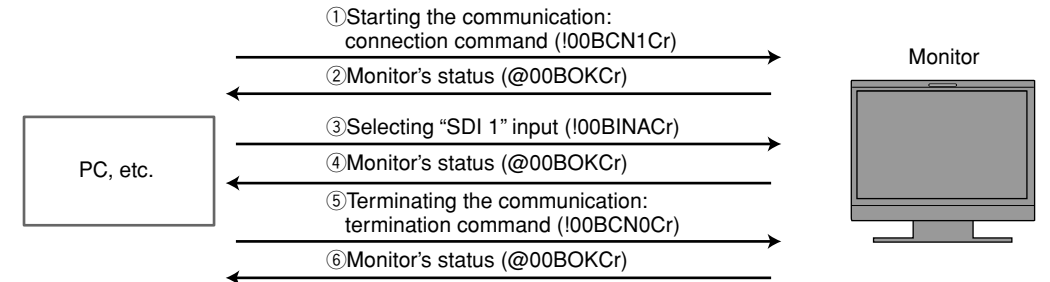
“!”: Operation commands from the personal computer, etc. For details, see <Basic command list> below.

“?”: Reference commands from the personal computer, etc.

“@”: Status returns from the monitor

- To start communication, send the connection command from the personal computer etc.
- To terminate the communication, send the termination command from the personal computer etc.

Example of communication procedures



<Basic command list>

| No. | Commands | Functions | Data |
|-----|------------------------------|--|-----------------------|
| 1 | ! * **1 B C N 1 Cr | Starts communication (connection) | No data |
| 2 | ! * **1 B C N 0 Cr | Terminates communication (termination) | No data |
| 3 | ! * **1 B I D S E T x x*2 Cr | Assigns the control ID | 01 – 99 |
| 4 | ! * **1 B I D R E T Cr | Initializes the control ID | No data |
| 5 | ! * **1 B I D D S P x x*2 Cr | Displays/hides the ID | 00: Hide, 01: Display |
| 6 | ! * **1 B I D C H K x x*2 Cr | Flashes/hides the selected ID No. of the monitor | 00: Hide, 01: Display |
| 7 | ! * **1 B M E N U Cr | Displays the MAIN MENU/Quits the menu operation | No data |
| 8 | ! * **1 B U P Cr | Moves the cursor upward (Δ) | No data |
| 9 | ! * **1 B D O W N Cr | Moves the cursor downward (∇) | No data |
| 10 | ! * **1 B A D J R Cr | Makes setting/adjustment (▷) | No data |
| 11 | ! * **1 B A D J L Cr | Makes setting/adjustment (◁) | No data |
| 12 | ! * **1 B S E T U P Cr | Displays the SET-UP MENU | No data |
| 13 | ! * **1 B P W 1 Cr | Turns on the monitor | No data |
| 14 | ! * **1 B P W 0 Cr | Turns off the monitor (on standby) | No data |
| 15 | ! * **1 B I N A Cr | Selects "SDI 1" input | No data |
| 16 | ! * **1 B I N B Cr | Selects "SDI 2" input | No data |
| 17 | ! * **1 B I N C Cr | Selects "DVI" input | No data |
| 18 | ! * **1 B I N D Cr | Selects "COMPO." input | No data |
| 19 | ! * **1 B I N E Cr | Selects "VIDEO" input | No data |
| 20 | ! * **1 B D I S P Cr | Displays the status*3 | No data |
| 21 | ! * **1 B A M U T E x x*2 Cr | Turns muting on/off | 00: Off, 01: On |
| 22 | ! * **1 B A S P x x*2 Cr | Changes the aspect ratio | 00: 4:3, 01: 16:9 |


- "Cr" is 0Dh.
- The commands for starting communication (connection) (No. 1), terminating communication (termination) (No. 2), and turning on the monitor (No. 13) can be used while the monitor is off (on standby).

*1 Enter the monitor's ID for "**." The initial setting of the monitor's ID is "00." When connecting several monitors, "00" is a command for controlling all monitors at once.

*2 Enter the appropriate data to "xx."

*3 Displays the information shown when the INPUT SELECT button currently lit is pressed. (☞ "On the Status Display" on page 7)

Solutions to common problems related to the monitor are described here. If none of the solutions presented here solve the problem, unplug the monitor and consult an authorized dealer or service center.

| Symptom | Probable cause and corrective action | Page |
|--|---|--------|
| No power supply | • Press the  / I button. | 6 |
| | • Turn on the POWER switch or DC switch on the rear panel. | 8, 9 |
| | • Firmly insert the AC power plug or DC 12 V power plug. | 8, 9 |
| | • When using a DC 12 V power supply, charge the battery or replace it with a charged one. | 9 |
| No picture with the power on | • Select the correct input using the INPUT SELECT buttons. | 6 |
| | • Connect the signal cable firmly. | 8 |
| | • Turn on the power of the connected component and set the output correctly. | — |
| | • Check whether the input signal format is acceptable on the monitor. | 10, 11 |
| No sound | • Adjust the volume level. | 6 |
| | • Deactivate the muting function. | 6 |
| | • Connect the signal cable firmly. | 8 |
| | • Turn on the power of the connected component and set the output correctly. | — |
| “OTHERS” or “Out of range” appears. | • Check whether the input signal format is acceptable on the monitor. | 10, 11 |
| “NO SYNC” appears. | • Select the correct input using the INPUT SELECT buttons. | 6 |
| | • Connect the signal cable firmly. | 8 |
| | • Turn on the power of the connected component and output video signals. Or, check whether the video output of the component (video output setting of the VCR or graphic board of the computer) is set correctly. | — |
| Wrong color, no color | • Adjust each picture adjustment knob on the front panel or adjust the items of “PICTURE SUB ADJ.” in the SET-UP MENU. Or, perform “reset” in “PICTURE SUB ADJ.” | 6, 17 |
| | • Check whether the setting of COLOR OFF or SCREENS CHECK buttons are appropriate. | 6 |
| | • Select the proper color system (“COLOR SYSTEM”) in “FUNCTION SETTING” of the SET-UP MENU. | 17 |
| | • Adjust the items of “WHITE BALANCE SET.” in the SET-UP MENU. | 18 |
| | • Or, perform “reset” in “WHITE BALANCE SET.” | — |

| Symptom | Probable cause and corrective action | Page |
|--|---|--------|
| The picture becomes blurred. | • Adjust the picture contrast or brightness by using the adjustment knobs on the front panel. Or, adjust “CONTRAST” or “BRIGHT” of “PICTURE SUB ADJ.” in the SET-UP MENU. | 6, 17 |
| Wrong picture position, wrong picture size. | • Check whether the setting of 1:1 or ASPECT buttons is appropriate. | 6 |
| | • Check whether the input signal format is acceptable on the monitor. | 10, 11 |
| Some items do not appear on the menu. | • Adjust the picture size (H SIZE/V SIZE) or position (H POSITION/V POSITION) of “SIZE/POSI. ADJ.” in the SET-UP MENU. | 18 |
| | • For some signals, the picture cannot be displayed fully in the effective screen area. There is no sure method to solve this problem. | — |
| Buttons on the monitor do not work. | • The items which are not available for the current input or the current input signal are not displayed on the menu. Change the input or the input signal. | — |
| | • The items controlled by the MAKE system do not appear on the menu. | 21 |
| Buttons on the monitor do not work. | • Set “CONTROL LOCK” in the SET-UP MENU to “OFF.” | 20 |
| | • You cannot use the buttons for the items controlled by the MAKE system. Disable the external control. | 21, 22 |

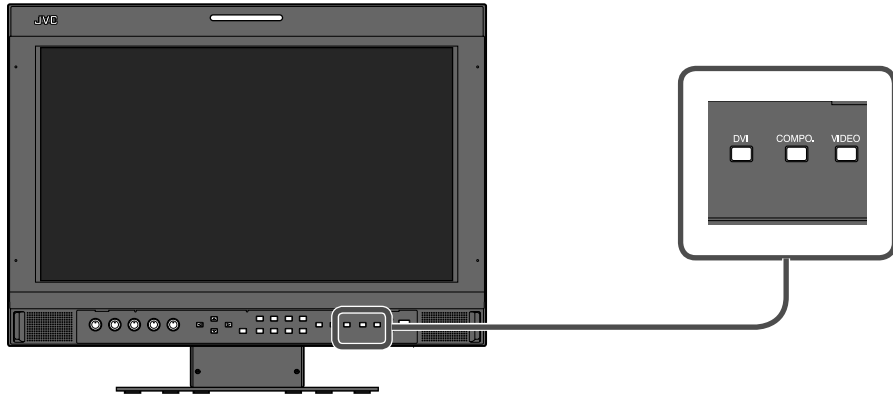
The following are not malfunctions.

- When a still image is displayed for a long time, it may remain indistinctly on the screen after the picture has changed. Though the remaining picture will disappear after a while, there may be a case that it remains for a long period depending on the length of time the still image was displayed for. This is due to the characteristics of the LCD display and is not a malfunction.
- Red spots, blue spots and green spots on the panel surface are a normal characteristic of LCD displays, and not a problem. The LCD display is built with very high precision technology; however, be aware that a few pixels may be missing or constantly lit.
- The following symptoms are problems only when pictures or sounds are not played back normally.
 - A slight electric shock occurs when you touch the monitor.
 - The top and/or rear panel of the monitor becomes hot.
 - The monitor emits a cracking noise.
 - The monitor emits a mechanical noise.

Troubleshooting (cont.)

■ Self-check program

This monitor has a self-check function, which allows it to detect malfunctions and alert you. This makes troubleshooting easier. Whenever a problem occurs, one or some of the INPUT SELECT lamps will flash. If this happens, follow the steps below and contact your dealer to resolve the problem.



When the screen goes blank, and one or some of the INPUT SELECT lamps (DVI, COMPO., VIDEO) on the front control panel start flashing...

- 1 Check which lamps are flashing.**
- 2 Press \odot / I button to turn off (on standby) the monitor.**
- 3 Turn off the POWER switch and DC switch on the rear panel.**
- 4 When the AC power supply is used: Disconnect the AC power cord from the AC outlet.**
When a DC 12 V power supply is used: Detach the battery or disconnect the plug from the DC IN 12V terminal.
- 5 Contact your dealer with the information about which lamps were flashing.**

- If you turn on the monitor soon after turning it off (or after a short-term power failure), the INPUT SELECT lamps may flash and no image may be displayed.

When this happens, turn off power and wait at least 10 seconds before turning on the monitor again.

If the INPUT SELECT lamps do not flash, you can use the monitor as normal.

Maintenance

Unplug this product from the wall outlet before cleaning.

Screen

To avoid irreparable change in appearance of the screen such as uneven color, discoloration, scratches, be careful about the following:

- Do not paste or stick anything using any glues or adhesive tapes.
- Do not write anything on the screen.
- Do not strike the screen with a hard object.
- Avoid condensation on the screen.
- Do not wipe the screen with solvent such as alcohol, thinner, or benzene.
- Do not wipe the screen forcefully.

Wipe stains off the screen with a soft cloth. If the screen gets heavily stained, wipe it with a soft cloth soaked in water-diluted neutral detergent and wrung well, then wipe with a soft dry cloth.

Cabinet

To avoid the deterioration or damages of the cabinet such as its paint's peeling away, be careful about the following:

- Do not wipe the cabinet using solvent such as alcohol, thinner, or benzene.
- Do not expose the cabinet to any volatile substance such as insecticides.
- Do not allow any rubber or plastic in contact for a long time.
- Do not wipe the cabinet forcefully.

Wipe stains off the cabinet with a soft cloth. If the cabinet gets heavily stained, wipe it with a soft cloth soaked in water-diluted neutral detergent and wrung well, then wipe with a soft dry cloth.

Ventilation openings

Use a vacuum cleaner to get rid of the dust around the intakes (all the openings). If a vacuum cleaner is not available, use a cloth and wipe it off. Leaving the dust around the intakes may prevent proper temperature control and cause damage to the product.

■ General

| | |
|--|---|
| Model name | DT-V17G1Z |
| Type | Multi format LCD monitor |
| Screen size | Type 17 wide format |
| Aspect ratio | 16 : 9 |
| Horizontal/vertical frequency (computer signal) | H: 31.469 kHz – 75.000 kHz V: 48 Hz – 65 Hz * Some signals within this frequency range may not be displayed (“Out of range” is displayed). |
| Compliant video signal format | ☞ “Available signals” on page 10 |
| Format | 3G SDI: SMPTE424M/SMPTE425M DUAL LINK HD SDI: SMPTE372M HD SDI: BTA S-004C, SMPTE292M SD SDI: ITU-R BT.656: 525/625 SMPTE259M: 525 EMBEDDED AUDIO: SMPTE299M, SMPTE272M CLOSED CAPTION: EIA/CEA-608, EIA/CEA-708 |
| Audio output | Internal speaker: 1.0 W + 1.0 W |
| Operating conditions | Operating temperature: 5°C – 35°C (41°F – 95°F) Operating humidity: 20% – 80% (non-condensing) (Slightly variable depending on ambient conditions for installation.) |
| Power requirements | AC 120 V, 50 Hz/60 Hz DC 12 V – 17 V |
| Rated current | 1.2 A (AC 120 V) 5.0 A (DC 12 V – 17 V) |
| External dimensions (excluding protruding parts) | Width: 430 mm (17”) (with the stand) 430 mm (17”) (without the stand) Height: 349.8 mm (13 7/8”) (with the stand) 309 mm (12 1/4”) (without the stand) Depth: 199 mm (7 7/8”) (with the stand) 102 mm (4 1/8”) (without the stand) |
| Weight | 8.6 kg (18.9 lbs) (with the stand) 6.8 kg (15.0 lbs) (without the stand) |
| Accessories | AC power cord, Power cord holder x 1, Screw x 2 (for power cord holder), Ferrite core x 1 (for external battery) |

Notice on transportation

This monitor is precision equipment and needs dedicated packing material for transportation. Never use any packing material supplied from sources other than JVC or JVC-authorized dealers.

Use the Anton Bauer Dionic 90 (mount: QR DXC-M3A) external battery.

CAUTION

Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.

■ LCD panel

| | |
|----------------------------|--|
| Type | 17" wide, active matrix TFT |
| Effective screen size | Width: 372.9 mm (14 3/4") Height: 209.7 mm (8 3/8") |
| Number of pixels displayed | 1366 x 768 |
| Number of colors displayed | 16.77 million |
| Viewing angle (TYP.) | 178° (Horizontally), 178° (Vertically) |
| Brightness (TYP.) | 350 cd/m ² |
| Contrast ratio (TYP.) | 900:1 |

■ Input/output terminals

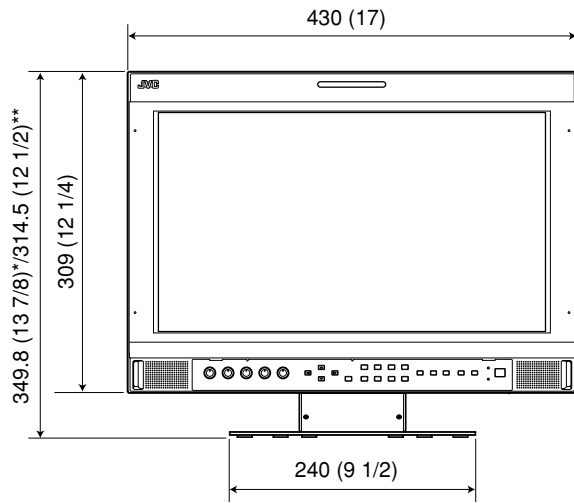
| | | |
|------------------|--|--|
| Video | VIDEO | Input/output of composite signal: 1 line, BNC connector x 2, 1 V(p-p), 75 Ω * The input (IN) and output (OUT) terminals are bridge-connected (auto termination). |
| | DVI-D (HDCP) | DVI-D signal input (compatible with HDCP): DVI-D connector x 1 (compatible with DDC2B) |
| | COMPO. (Y, P _B /B-Y, P _R /R-Y) | Input/output of analog component signal: 1 line, BNC connector x 6 Y: 1 V(p-p), 75 Ω P _B /B-Y, P _R /R-Y: 0.7 V(p-p), 75 Ω * The input (IN) and output (OUT) terminals are bridge-connected (auto termination). |
| | E. AUDIO HD/SD SDI (IN 1) E. AUDIO HD/SD SDI (IN 2) | Digital signal input (compatible with EMBEDDED AUDIO signals / DUAL LINK): auto detection, 2 line, BNC connector x 2 |
| Audio | E. AUDIO HD/SD SDI (SWITCHED OUT) | Digital signal output (compatible with EMBEDDED AUDIO signals): 1 line switched out, BNC connector x 1 |
| | AUDIO (IN) | Analog audio signal input: 1 line, RCA connector x 2, 500 mV (rms), high impedance |
| External control | AUDIO (MONITOR OUT) | Analog audio signal output: 1 line, RCA connector x 2, 500 mV (rms) |
| | REMOTE (MAKE/TRIGGER) | ☞ “Using the MAKE/TRIGGER system” on page 21 |
| | REMOTE (RS-485) REMOTE (RS-232C) | ☞ “Using the serial communication” on page 22 |

- For easy understanding, pictures and illustrations are shown by being emphasized, omitted or composed, and may be slightly different from actual products.
- Design and specifications are subject to change without notice.
- All company names and product names mentioned herein are used for identification purposes only, and may be the trademarks or registered trademarks of their respective companies.

Specifications (cont.)

■ Dimensions Unit: mm (inch)

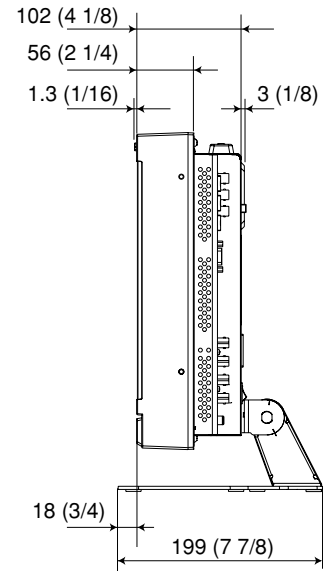
<Front view>



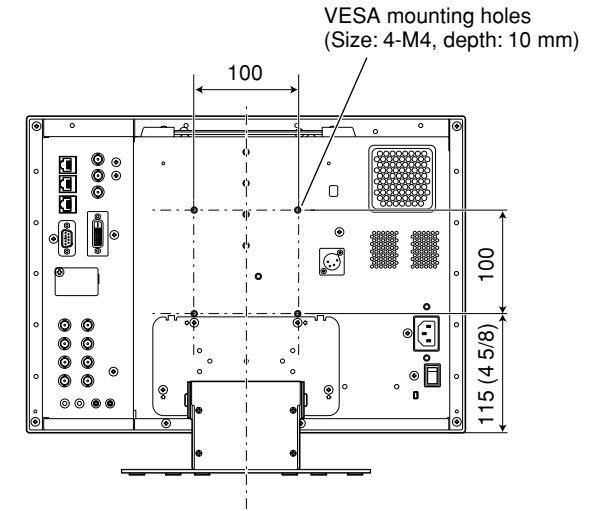
* at the higher position

** at the lower position

<Side view>



<Rear view>



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