

JVC

MULTI FORMAT LCD MONITOR

DT-V21G11Z

INSTRUCTIONS



For Customer Use:

Enter below the Serial No. which is located on the rear of the cabinet. Retain this information for future reference.

Model No. : **DT-V21G11Z**

Serial No. : _____

LCT2681-001A

Safety Precautions



CAUTION

**RISK OF ELECTRICAL SHOCK
DO NOT OPEN**



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.

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.

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

WARNING: 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.

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.

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 (For U.S.A. and Canada) and AC 220 – 240 V (For European countries, Asian countries, and United Kingdom).

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.

- Not all types of power cords are supplied to this product.

For U.S.A. and Canada: AC 120 V	For European and Asian countries: AC 220 – 240 V	For United Kingdom: AC 220 – 240 V
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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:

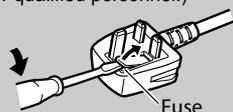
- Do not use the same power cord for AC 120 V as for AC 220 – 240 V. Doing so may cause malfunction, electric shock or fire.

Note for United Kingdom power cord only

The plug of United Kingdom power cord has a built-in fuse. When replacing the fuse, be sure to use only a correctly rated approved type, re-fit the fuse cover. (Consult your dealer or qualified personnel.)

How to replace the fuse

Open the fuse compartment with the blade screwdriver, and replace the fuse.



- 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.

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
 - in a location exposed to direct sunlight or strong light
- 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 (☞ "Operation environment" on page 28). 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/220 – 240 V, 50 Hz/60 Hz

- 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.

The Mains Plug is used as the disconnect device, the disconnect device shall remain readily operable.
To completely disconnect this apparatus from the AC mains, disconnect the power supply cord plug from the AC receptacle.

- 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.

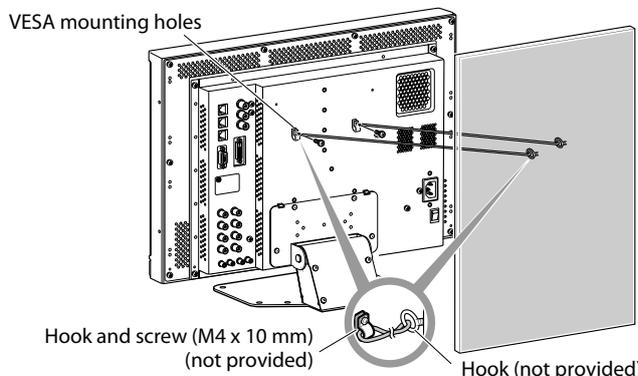
WARNING

To prevent injury by 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.



U.S.A. only

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.

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.

Safety Precautions (cont.)

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.



European Union only

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of JVC KENWOOD Corporation is:

JVC Technical Services Europe GmbH

Postfach 10 05 04

61145 Friedberg

Germany

Information for Users on Disposal of Old Equipment



[European Union]

This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

Attention:

This symbol is only valid in the European Union.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste

handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

(Business users)

If you wish to dispose of this product, please visit our web page <http://www.jvc.eu/> to obtain information about the take-back of the product.

[Other Countries outside the European Union]

If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

EMC Supplement

This equipment is in conformity with the provisions and protection requirements of the corresponding European Directives. This equipment is designed for professional video appliances and can be used in the following environments:

- Controlled EMC environment (for example purpose built broadcasting or recording studio), and rural outdoors environment (far away from railways, transmitters, overhead power lines, etc.)

In order to keep the best performance and ensure electromagnetic compatibility, we recommend to use cables not exceeding the following length:

Cable	Length
Power cord (attached cable (H05VV-F 3 x 0.75 mm ²))	2.0 m
Video signal cable (coaxial cable)	2.0 m
Audio signal cable (shielded cable)	1.5 m
DVI cable (shielded cable) with core filter	2.0 m
RS-232C cable (shielded cable) (A straight cable with a D-sub 9-pin connector)	2.0 m
RS-485 cable (twist pair cable) (A straight LAN cable)	2.0 m
REMOTE cable (twist pair cable) (A straight LAN cable)	2.0 m

The inrush current of this apparatus is 1.76 ampere.

CAUTION

In case where the strong electromagnetic waves or magnetism are near the audio cable or the signal cable, the sound or the picture will contain noise. In such cases, please keep the cable away from the sources of the disturbance.

Operating Precautions

The LCD panel and backlight have life expectancy. Due to the basic characteristics of the LCD panel, an afterimage or uneven display may occur. It is recommended that you change images occasionally, activate the power saving function, or often turn off the power to reduce the load on the LCD panel. Continuous operations of the LCD panel may accelerate the deterioration.

● Caution for use of the product for many hours

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. (☞ page 17) Also, we recommend that you use "LCD SAVER" function to reduce the burden on the LCD panel. (☞ page 18)

● 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.

● Maintenance

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 any liquid such as water. In addition, wiping the screen with water-diluted neutral detergent or solvent such as alcohol, thinner, or benzine may affect the anti-reflection treatment of the screen.
- Do not wipe the screen forcefully.

Wipe stains off the screen with a soft 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.

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 benzine.
- 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.

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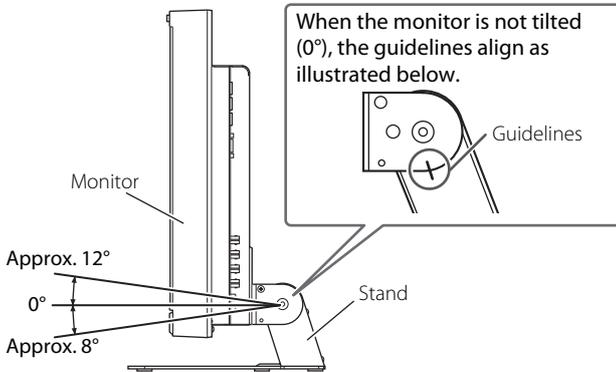
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Installation

- 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.

● How to set up 1

You can tilt the monitor as follows.

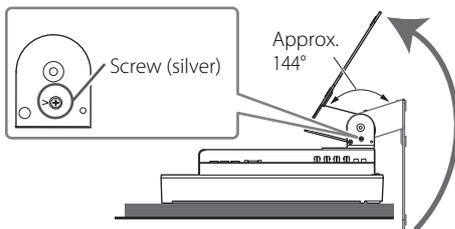


- Be careful not to pinch your fingers in the gap between the monitor and the stand.
- When the stand plate is attached to the lower position of the stand body, you cannot tilt the monitor downward.

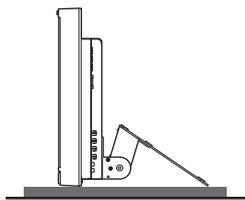
● How to set up 2

When the stand plate is attached to the higher position of the stand body, you can place the monitor as illustrated below.

- 1 Remove the screws on the sides of the stand (see the following illustration), and lift up the stand by approximately 144 degrees.



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



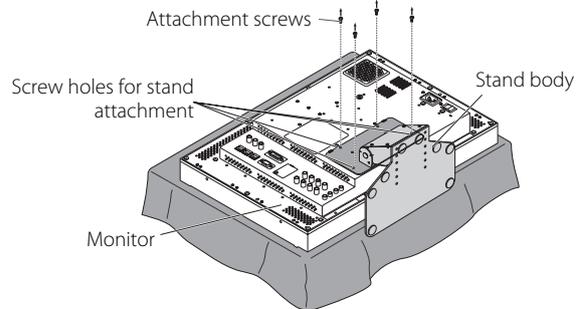
- To place the monitor as shown in "How to set up 1" again, remove the screws on the sides of the stand, align the guidelines, and then reattach the screws.

Cautions

- 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 (Approx. 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.

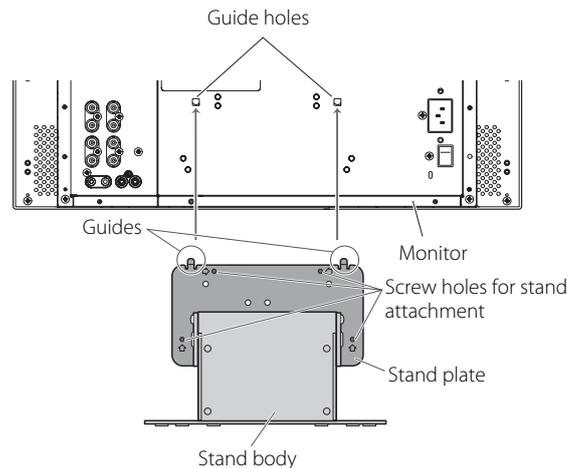
● To detach the stand

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 plate into the guide holes on the monitor to place the stand in the correct position. Then fix the stand firmly with the attachment screws.

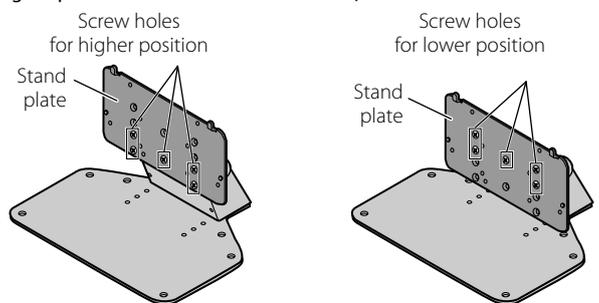


● To adjust the stand height

To change the stand height, detach the stand from the monitor. 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 install the monitor on a shelf or any other suitable surface using screws**

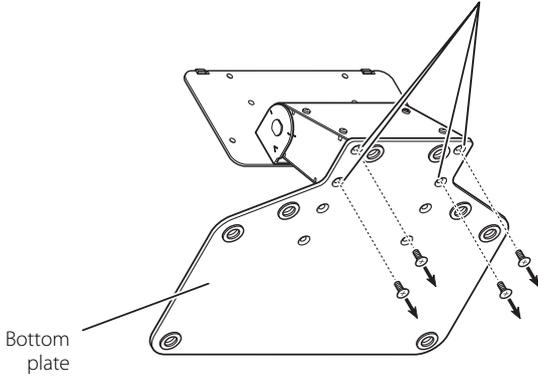
You can install the monitor on a shelf etc. by changing the position of the bottom plate of the stand to a rearward position.

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).

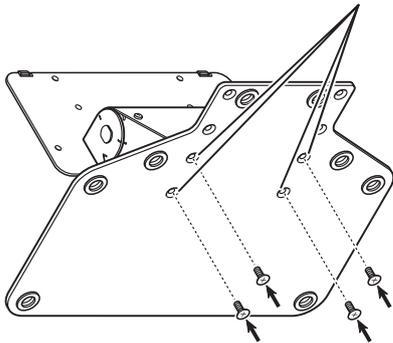
1 Remove the bottom plate of the stand from the stand body.

Screw holes for the normal position

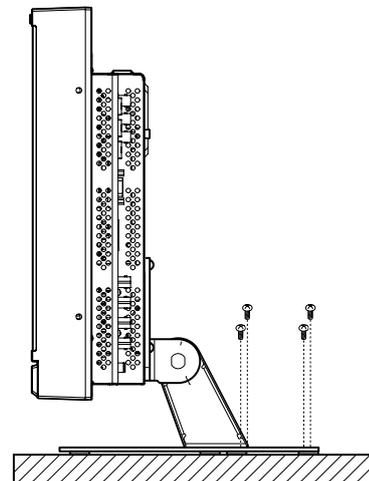
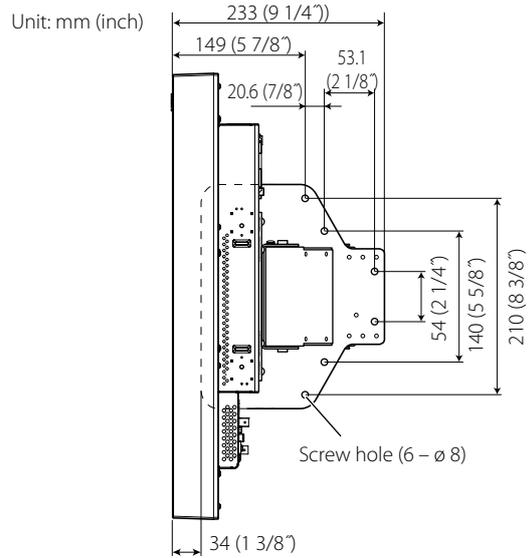


2 Remove the bottom plate of the stand from the stand body.

Screw holes for the rearward position



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.

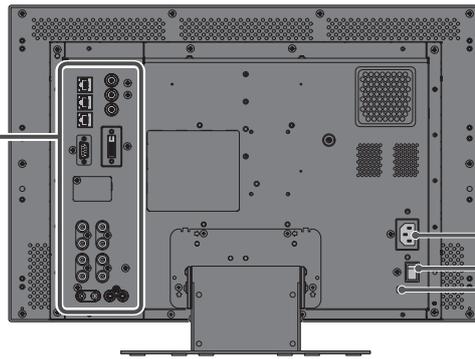
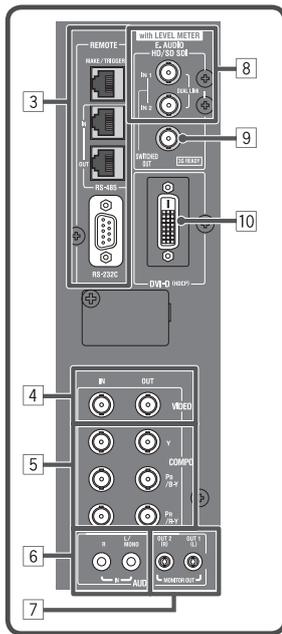


CAUTION

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.

Connections

Rear panel



Security slot
Attach a security wire to this slot.

Note for connections

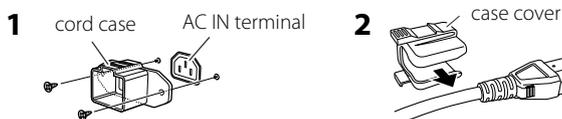
- Before making any connections, turn off all the equipment.
- Use a cord whose plugs correctly match the terminals on this monitor and the equipment.
- Plugs should be firmly inserted; poor connections could cause noise.
- When unplugging a cord, be sure to grasp its plug and pull it out.
- DO NOT connect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

- 1 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. (see below)
 - Please review "Safety Precautions (a grounding type plug)" on page 4 carefully.**Caution:** Do not connect the power cord until all other connections are completed.
- 2 AC POWER switch**
Turns AC power on or off.
 - You need to press / button (see 17 on page 10) to use the monitor after turning on the AC POWER switch.
- 3 REMOTE terminal**
Terminal for controlling the monitor by an external control (see "External Control" on page 22).
- 4 VIDEO terminals (BNC)**
Input (IN) and output (OUT) terminals for the composite signals.
- 5 COMPO. (Y, PB/B-Y, PR/R-Y) terminals (BNC)**
Input (IN) and output (OUT) terminals for the analog component (color difference) signal.
- 6 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.
- 7 AUDIO MONITOR OUT (OUT 1, OUT 2) 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 3G SDI/HD SDI/SD SDI (IN 1 or IN 2) input terminal.

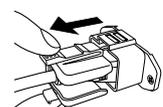
- 8 E. AUDIO 3G SDI/HD SDI/SD SDI (IN 1, IN 2) terminals (BNC)**
Input terminals for the 3G SDI/HD SDI/SD SDI signals.
 - The terminals accept also EMBEDDED AUDIO signals including up to 16 audio channels with a sampling frequency of 48 kHz.
 - Use SDI IN 1 and SDI IN 2 terminal when selecting DUAL LINK SDI for the input.
- 9 E. AUDIO 3G SDI/HD SDI/SD SDI (SWITCHED OUT) terminal (BNC)**
Output terminal for the 3G SDI/HD SDI/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.
- 10 DVI-D (HDCP) terminals**
Input terminal for the DVI-D signal compatible with HDCP.
 - When the picture is not displayed correctly, change the setting of "DVI INPUT SEL." (see page 20)

Attaching the power cord holder

The provided power cord holder prevents accidental disconnection of the AC power cord from the AC IN terminal. The holder consists of two parts: the cord case and the case cover.



To take off the case cover



- Do not use any screws other than those supplied.
- Push the case cover into the cord case and check that the power plug is connected firmly.

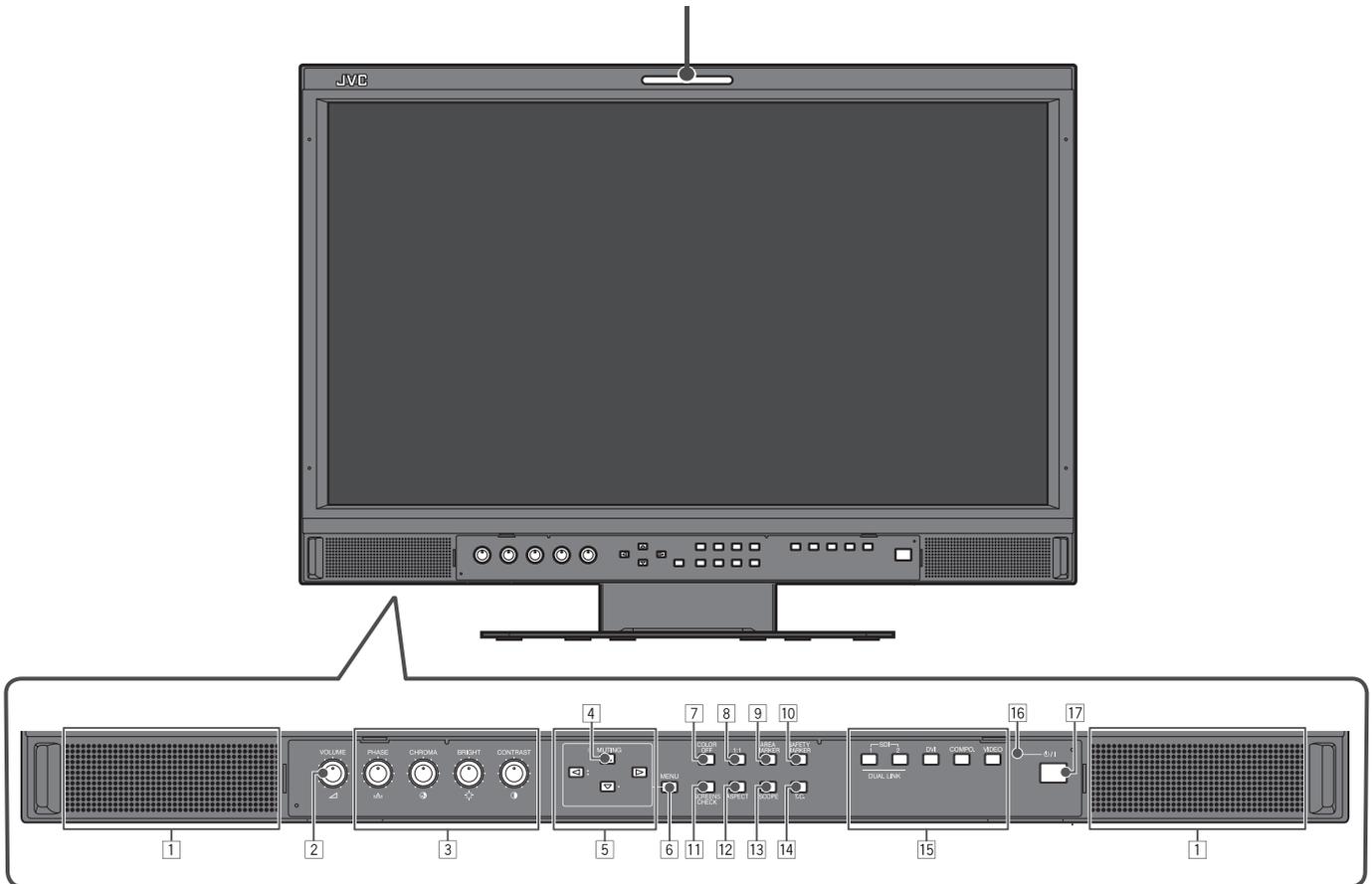
Daily Operations

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 18 and "External Control" on page 22)



- "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).
- You cannot use the buttons for the items controlled by the MAKE system ("REMOTE ON" appears, and the lamp does not light up).

1 Speakers (stereo)

The speakers emit the same audio signal emitted from the AUDIO (MONITOR OUT) terminals.
(☞ 7 "AUDIO MONITOR OUT (OUT 1, OUT 2) terminals (pin jack)" 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 18).

4 MUTING button

Turns off the sound when no menu screen is displayed (Muting).

- 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 16).

5 </>/△/▽ buttons

When a menu screen is displayed

Selects or adjusts menu items (☞ "Menu Operations" on page 13).

When no menu screen is displayed

Selects the audio channels of EMBEDDED AUDIO signals (☞ "Audio Channel Selection" on page 11).

- Pressing </> button while holding ▽ button displays the SET-UP MENU (☞ "Menu Operations" on page 13).

Daily Operations (cont.)

6 MENU button

Activates/deactivates the display of the MAIN MENU (☞ "Menu Operations" on page 13).

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 15).
- This function does not work when displaying the picture in the 1:1 mode.
- 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

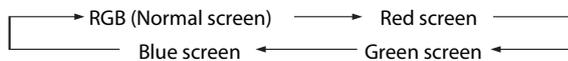
Displays/hides the safety marker.

- Adjust the area of the safety marker in "MARKER" of MAIN MENU (☞ page 15).
- This function works only when displaying the picture in 16:9 aspect ratio.
- 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.

- This function does not work for RGB input signals.
- 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 17).

- 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 11).

- Select the time code type in "INFORMATION" of SET-UP MENU (☞ page 21).

15 INPUT SELECT buttons/lamps

Selects an input.

SDI 1: Input from the E. AUDIO 3G SDI/HD SDI/SD SDI (IN 1) terminal

SDI 2: Input from the E. AUDIO 3G SDI/HD SDI/SD SDI (IN 2) terminal

DUAL LINK: Input from the E. AUDIO 3G SDI /HD SDI/SD SDI (IN 1, IN 2) terminals

DVI: Input from the DVI-D (HDCP) terminal

COMPO.: Input from the COMPO. terminals

VIDEO: Input from the VIDEO terminal

- The lamp for the selected input lights.

16 Power lamp

Off: The power is turned off

Green: The monitor is on

Orange: The monitor is turned off (standby)

Orange blinking: P.SAVE (Power saving) mode ("NO SYNC ACTION" in "SYNC FUNCTION") (☞ page 17)

17 ⏻ / I button

Turns on and off (on standby) the monitor.

- The AC power switch is equipped on the rear panel of the monitor (☞ 2 on page 8).

Audio Channel Selection

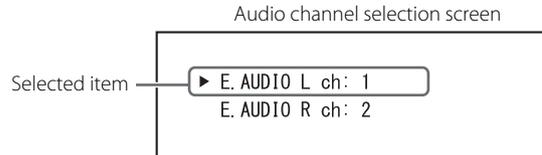
Select audio channels emitted from the speakers (L/R) and the AUDIO MONITOR OUT(OUT1(L)/OUT2(R)) terminals, when EMBEDDED AUDIO signals come in to the SDI terminal and SDI input is selected.

- You have to choose a group of selectable audio channels before the channel selection (☞ "E.AUDIO GROUP" in "AUDIO SETTING" on page 16).
- 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.



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." (☞ page 16)

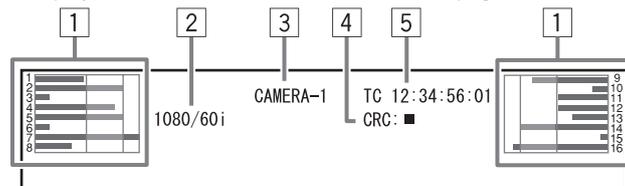
4 Press MENU button.

- The screen for audio channel selection disappears.

On the Information Display

The monitor displays the information below.

- Configure the show/hide setting of each item in the menu. Use the T.C. button (☞ 14 on page 10) to configure 5 and 6.
- Select the position of the information display (☞ "POSITION" in "INFORMATION" on page 21).



1 Audio level meter

- You can check the conditions of the EMBEDDED AUDIO signals when "LEVEL METER ch" is set to "LINE" or "DIVIDE."
- Not displayed when "LEVEL METER ch" is set to "OFF." (☞ "AUDIO SETTING" on page 16)

2 Signal format

- Displayed when "STATUS DISPLAY" is set to "ON." (☞ "INFORMATION" on page 21)
- For the contents displayed, see "Available signals" on page 29 and "On the signal format" on page 12.

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 21)

4 CRC error indication

- Displayed when "CRC ERROR" is set to "ON." (☞ "INFORMATION" on page 21)
- 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 10).

Daily Operations (cont.)

On the Status Display

If you press the INPUT SELECT button (☞ 15) on page 10) 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 21)
- 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.

1080/59.94i	1
3G A-2	2
MS1YCbCr	3
MUTING ON	4

1 Signal format

- For the contents displayed, see "Available signals" on page 29 and "On the signal format" below.

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"

2 Signal format of DVI input

☞ On page 20 "DVI INPUT SEL."

Status indication of DUAL LINK/3G SDI signal information

- "DUAL LINK" appears when the MAIN MENU "SDI DUAL LINK" (☞ page 14) is set to "ON" in SDI input, and the 3G SDI signal information appears when the MAIN MENU "SDI DUAL LINK" is set to "OFF."

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

3 Displaying the SDI FORMAT setting

- "SDI FORMAT" in "SET-UP MENU" appears. (☞ page 20).

4 Setting of "MUTING"

- Displayed only when muting is activated (☞ 5) on page 9).

Setting the menu

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.

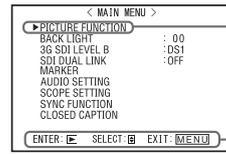
- For some items, adjustments will be made by pressing ◀ ▷.

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.

MAIN MENU



Item being selected

Operation guide

SET-UP MENU



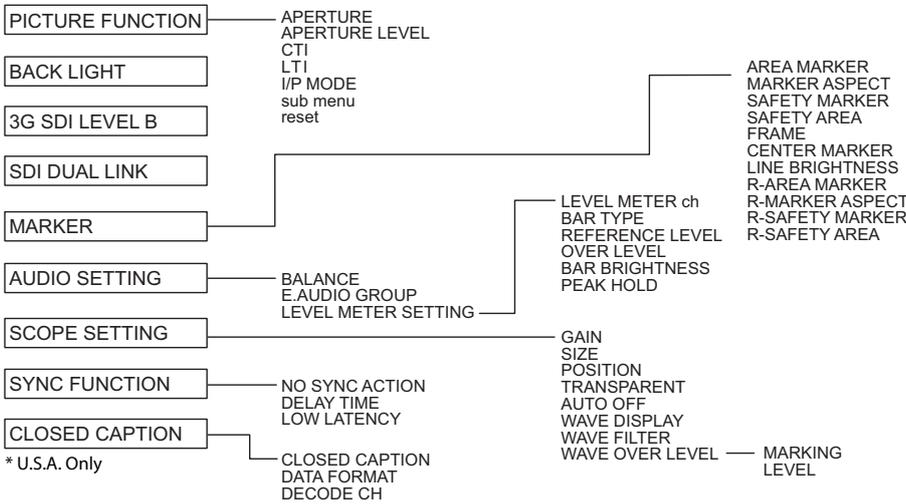
MAIN MENU

Ex. When "MARKER" is selected.

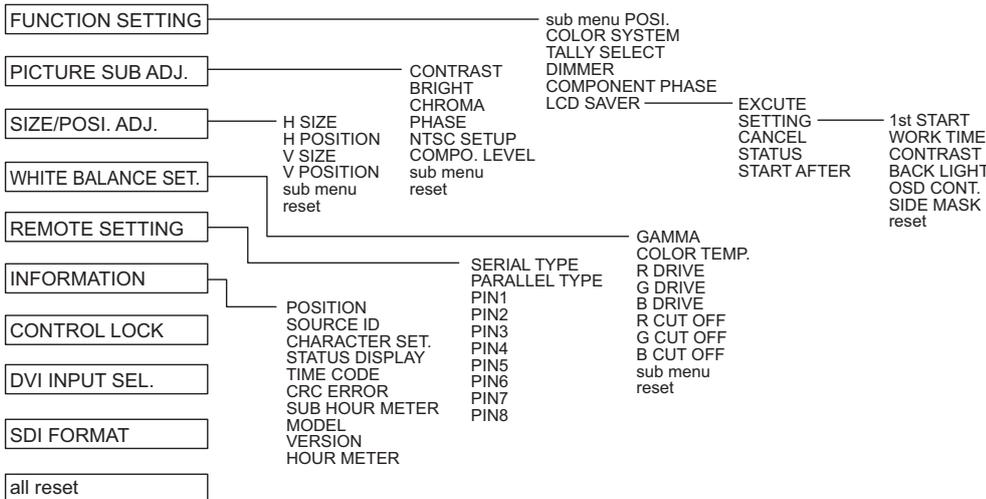


Menu Transition Diagram

MAIN MENU



SET-UP MENU



- 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.

Setting the menu (cont.)

MAIN MENU

PICTURE FUNCTION

Setting for the picture quality.

Item	Content	Setting value
APERTURE *1	Activates/deactivates the function at the level set in "APERTURE LEVEL."	OFF, ON
APERTURE LEVEL *1	Simultaneously corrects the frequency characteristics of the RGB colors.	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.

- The setting value will be invalid if a 3G SDI LEVEL B DUAL LINK signal is input.

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." (☞ "Status indication of DUAL LINK/3G SDI signal information" on page 12)
- Set this setting to "OFF" when an SDI signal other than DUAL LINK SDI is input.

CLOSED CAPTION (U.S.A. only)

Setting for the display of CLOSED CAPTION.

Item	Content	Setting value
CLOSED CAPTION	Set the display of CLOSED CAPTION.	OFF, ON
DATA FORMAT	Set the DATA FORMAT of CLOSED CAPTION when an SDI signal is input. (This item is not displayed except when the SDI signal is input.)	708, 608ANC, 608(708), 608VBI
DECODE CH	Set DECODE (display) CH.	CC1, CC2, CC3, CC4, TEXT1, TEXT2, TEXT3, TEXT4 Only when the setting value of DATA FORMAT is converted to 708: SERV.1, SERV.2, SERV.3, SERV.4, SERV.5, SERV.6

MARKER^{*1*2}

Settings for marker functions.

	Item	Content	Setting value
1/2	AREA MARKER ^{*3}	Activate/deactivate the area marker and select the style of it. 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.	OFF LINE HALF HALF+L BLK. BLK.+L
	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. ^{*4}	OFF, LINE, HALF, HALF+L, BLK., BLK.+L
	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	R-AREA MARKER ^{*3}	Display/Hide the area marker and select a type. ^{*4}	OFF, LINE, HALF, HALF+L, BLK., BLK.+L
	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. ^{*4}	OFF, LINE, HALF, HALF+L, BLK., BLK.+L
	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 22).
- 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.

*1 Memorized for each input.

*2 Not displayed in 1:1 mode or when "SD4:3 LARGE" under the SET-UP MENU "FUNCTION SETTING" is set to "ON" and 4:3 format signals are input.

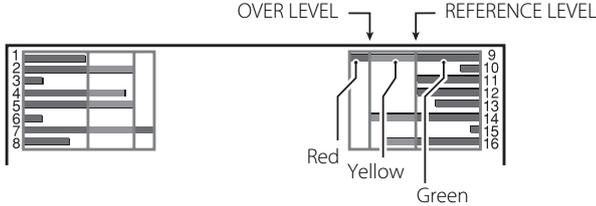
*3 Displayed only when picture is displayed in 16:9 aspect ratio.

*4 The setting values are the same as that of "AREA MARKER."

Setting the menu (cont.)

AUDIO SETTING

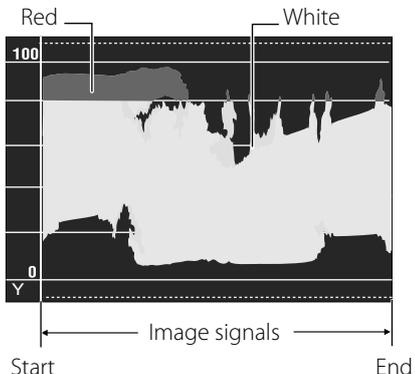
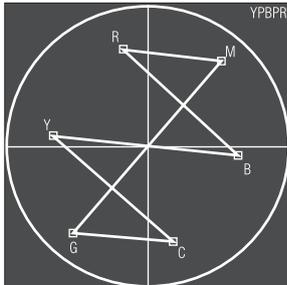
Settings for the audio output balance, EMBEDDED AUDIO signals and level meter.

Item	Content	Setting value
BALANCE	Adjust the balance between the right and left speakers.	L5 – L1, 0, R1 – R5
E.AUDIO GROUP *1	<p>Select the audio channel group of the EMBEDDED AUDIO signals. The setting values and selectable audio channels of EMBEDDED AUDIO signals are as follows.</p> <p>1G : Channel 1/2/3/4/1+2/3+4/1 – 4 (1G) 2G : Channel 5/6/7/8/5+6/7+8/5 – 8 (2G) 1-2G : Channel 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 9/10/11/12/9+10/11+12/9 – 12 (3G) 1-3G : Channel 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) 4G : Channel 13/14/15/16/13+14/15+16/13 – 16 (4G) 1-4G : Channel 1/2/3/4/5/6/7/8/9/10/11/12/13/14/15/16/1+2/3+4/5+6/7+8/9+10/11+12/13+14/15+16/1 – 4 (1G)/5 – 8 (2G)/9 – 12 (3G)/13 – 16 (4G)/1 – 8 (1G+2G)/1 – 12 (1-3G)/1 – 16 (1-4G)</p> <p>• G means GROUP</p>	1G, 2G, 3G, 4G, 1-2G, 1-3G, 1-4G
LEVEL METER SETTING *1	<p>Adjust the level meter display for the EMBEDDED AUDIO signals. 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"</p>  <ul style="list-style-type: none"> • 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 (☞ "POSITION" in "INFORMATION" on page 21). • When "PEAK HOLD" is set to "ON," the maximum level meter value will remain displayed for a set period of time. • The number of audio channels that are displayed on the level meter may vary according to selection of "E.AUDIO GROUP". 	
– LEVEL METER ch	<p>Select how the audio channels are displayed on the level meter.</p> <p>LINE : Displays the channels 1 – 8 at the left of the screen and 9 – 16 at the right. DIVIDE : Displays the odd channels at the left of the screen and the even channels at the right.</p>	OFF LINE DIVIDE
– BAR TYPE	<p>Select the color of the level meter display.</p> <p>3COLORS : Coloring for each level W.100 : White</p>	3COLORS W.100
– 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.

SCOPE SETTING*1

Configure the settings for the wave form monitor and vector scope.

Item	Content	Setting value
GAIN	Adjust the input gain level.	-10 - +10
SIZE *2	Set the window size.	NORMAL, LARGE
POSITION *2	Select the window position.	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	ON OFF
AUTO OFF	Set the function to turn off the window automatically 15 minutes after displayed.	ON, OFF
WAVE DISPLAY	Select a wave form to be displayed for the wave form monitor.	Y, Pb, Pr (HD signal) Y, Cb, Cr (SD signal) R, G, B (RGB signal)
WAVE FILTER	Turn on/off the lowpass filter to put over the input wave form data.	FLAT (No filter) LOWPASS
WAVE OVER LEVEL	Set the over levels of the luminance signals (Y) and RGB signals. Example of the wave form monitor Ex.: When the luminance signal is Y, "MARKING" is set to "ON" and "LEVEL" is set to "080"  <ul style="list-style-type: none"> The wave form color of signals over the value specified in "LEVEL" turns red. The display differs depending on the input signal or the "WAVE DISPLAY" setting. 	Example of the vector scope Ex.: When the color bar is displayed 
- MARKING	Turn on/off the function to change the wave form color of signals over the value specified in "LEVEL." (☞ below)	OFF, ON
- LEVEL	Adjust the lower limit for the over level.	070 - 109

*1 The wave form monitor is not displayed when the input signals are DVI (input from a computer). The vector scope is not displayed when the input signals are RGB.

*2 When "SIZE" is set 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	Content	Setting value
NO SYNC ACTION	Select the screen status when no signal is coming in. P.SAVE : Power save mode GRAY B. : Gray screen	OFF P.SAVE GRAY B.
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. • 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.

● In the initial setting, "NO SYNC ACTION" is set to "P.SAVE", and "DELAY TIME" set to "15min." Change the settings if necessary. (U.S.A. only)

Setting the menu (cont.)

SET-UP MENU

FUNCTION SETTING

Configure the sub menu display, the lighting color of the tally lamp, the size of images, the brightness of the button lamps.

Item	Content	Setting value
sub menu POSI.	Select the contents and displaying position of "sub menu." 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.	LOWER1 UPPER1 LOWER2 UPPER2
COLOR SYSTEM	Select the color system. • If the picture is unstable with "AUTO," select "NTSC" or "PAL."	AUTO, NTSC, PAL
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 9, page 19).	ENABLE, DISABLE
TALLY SELECT	Select the color of the tally lamp.	GREEN, RED
DIMMER	Select the intensity of the button lamps.	NORMAL, DARK
LCD SAVER	Set for reducing the burden on the LCD panel when it is used for a long time.	
EXECUTE	Activate the function of the LCD SAVER.	
SETTING		
1st START	Set the Standby time.	00h-24h
WORK TIME	Set the time for operating the function.	01h-06h
CONTRAST	Set the reduction of the picture contrast.	SAVE, NORMAL
BACKLIGHT	Set the reduction of the BACKLIGHT brightness.	SAVE, NORMAL
OSD CONT.	Set the reduction of the OSD display contrast.	SAVE, NORMAL
SIDE MASK	Set use or nonuse of the side panel. * The "SIDE MASK" function can operate irrespective of running/cancelling the LCD SAVER function.	OFF, ON
reset	Reset the LCD SAVER SETTING configuration to the status when it was initially purchased.	
CANCEL	Cancel the LCD SAVER function. ("CANCEL" will not be displayed during the function stop.)	
STATUS	Display the LCD SAVER function status.	OFF, READY
START AFTER	Display required time until the LCD SAVER operation starts.	**h**min.

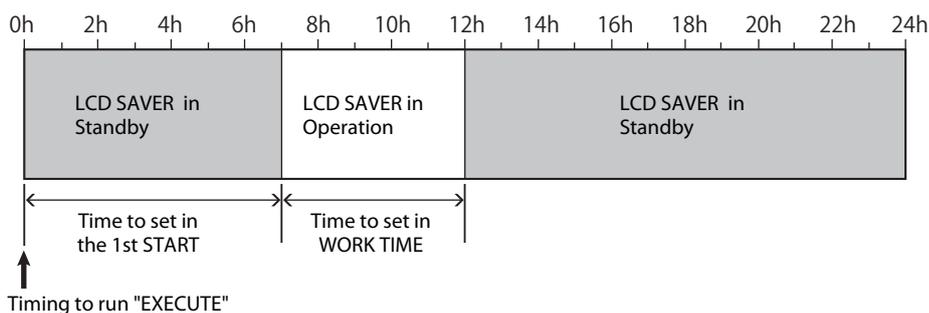
● How to use the LCD SAVER

1. Set reduced function to perform.
2. Set both time for starting the function and time for letting it work.
3. Activate the STANDBY MODE by EXECUTE.

- Aborting the ongoing function operation
Operating this apparatus may lead to aborting the OPERATION MODE.
- Stopping the operation
Executing "CANCEL". Turn off the power.

- Once operating the function, unless turned off the power or executed "CANCEL", reduced function is automatically performed every 24 hours.

- Example of setting up "1st START" and "WORK TIME"



PICTURE SUB ADJ.

Configure the standard level of image adjustment.

Item	Content	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." (You cannot select items to reset.)	

*¹ Memorized for each input.

*² When "COMPONENT PHASE" is set to "DISABLE," "PHASE" cannot be adjusted if no NTSC signal is input.

SIZE/POSI. ADJ.

Adjusts the size and position of the picture.

Item	Content	Setting value
H SIZE* ¹	Adjust the horizontal picture size. Setting value varies depending on the signals.	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	Content	Setting value
GAMMA	Select a gamma correction.	2.2 (equivalent to γ2.2), 2.35 (equivalent to γ2.35), 2.45 (equivalent to γ2.45), 2.6 (equivalent to γ2.6)
COLOR TEMP.	Select the color temperature.	9300K, 6500K, USER
R DRIVE G DRIVE B DRIVE * ¹	Adjust the drive level of each color (red, green, and blue).	-255 – 000 (in 256 grades)
R CUT OFF G CUT OFF B CUT OFF * ¹	Adjust the cutoff point of each color (red, green, and blue).	-228 – 000 + 227 (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. (You cannot select items to reset.)	

*¹ Memorized for each color temperature.

Setting the menu (cont.)

REMOTE SETTING (☞ "External Control" on pages 22)

Settings for the external control.

Item	Content	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. • Assign a function to each pin terminal by selecting "SET" in "PARALLEL TYPE" mentioned above.	☞ <Functions controlled by the MAKE/TRIGGER system> on page 23.
PIN6 PIN7 PIN8	The functions are assigned for "PIN6" – "PIN8" and you cannot change the assignment of these functions.	☞ "Using the MAKE/TRIGGER system" on page 22

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.
 - Press the ▽ button and ◁ button to display the SET-UP MENU, and set "CONTROL LOCK" to "OFF."
 - Operate this product by external control.
 When you perform operations other than the above, "🔒 Control lock on!" appears.

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

Settings for formats of signals input into the DVI-D (HDCP) terminal.

- Automatically distinguishes signals when set to "AUTO." (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.

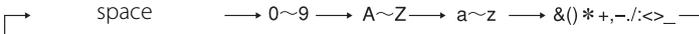
SDI FORMAT Setting value: AUTO, MS1YCbCr, MS2YCbCr, MS3YCbCr, MS4YCbCr, MS2 RGB, MS3 RGB, 3G-B-I

When "AUTO" is selected, 3G SDI/HD-SDI DUAL LINK signals are automatically recognized. (Normally select "AUTO.")

- If the picture is unstable with "AUTO", select the setting value according to the input signal format.
- "M" is displayed on the status display when a setting other than "AUTO" is selected.

INFORMATION

Settings for the information display of the monitor.

Item	Content	Setting value
POSITION	Select the position to show the information display (☞ "On the Information Display" on page 11).	UPPER LOWER
SOURCE ID	Select whether the name assigned in "CHARACTER SET." is displayed on the screen (☞ "On the Information Display" on page 11). • 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. Setting of "CHARACTER SET." 1 Change the input to one that you want to assign a video source name for. 2 Select "CHARACTER SET." 3 Press the Δ / ∇ buttons to select a character to enter at first. ● Each time you press the Δ button, the characters change in the following order. Press ∇ button to reverse the order.  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.  	
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 12).	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/SD SDI signal is displayed on the screen (☞ "On the Information Display" on page 11).	OFF ON
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.	
HOURL 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

all reset

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

- "HOURL METER" and the settings done by using the adjustment knobs on the front panel will not be reset.
- If reset while the AC power is on, the monitor turns off (standby), and then turns on automatically.

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 terminal (RJ-45):** Controls the monitor with the RS-485 system (☞ "Using the serial communication" on page 24).
 - **RS-232C terminal (D-sub 9-pin):** Controls the monitor with the RS-232C system (☞ "Using the serial communication" on page 24).
- 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 20).

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 25)

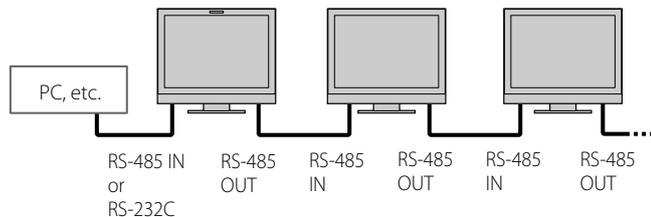
<MAKE/TRIGGER system>

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>



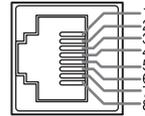
- For the details, see page 24.

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 20)

- 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 13.

- 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 23.

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
Display	Functions to be controlled	Invalid	Valid
COMPO.	Changes the input to "COMPO."	Invalid	Valid
VIDEO	Changes the input to "VIDEO."	Invalid	Valid
3G-B.DS	Selects the data stream of "3G SDI LEVEL B"	DS1	DS2
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" *3	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 *4	☞ "On the Status Display" on page 12	
L.METER	Audio level meter display	*5	
TIME CODE	Time code display	Off	On
SOURCE ID	☞ "SOURCE ID" in "INFORMATION" on page 21	*6	
WAVE FORM	Displays the wave form monitor (Normal or Difference)	*7	
VECTOR	Displays the vector scope		
COLOR OFF	Color off	Color	Monochrome
SCR CHECK	Screens check	*8	
I/P MODE	Change a mode according to the input picture	*9	
MUTING	Muting on/off	Off	On
DIMMER	Change the intensity of the button lamps	NORMAL	DARK
----	No function	—	—

*3 Selects which functions in "MARKER" are activated, non-"R-" items or "R-" items (☞ "MARKER" on page 15).

*4 Displays the information shown when INPUT SELECT button of the current input is pressed (☞ "On the Status Display" on page 12). While controlling with the MAKE system, the information is displayed only at the moment of short-circuiting.

*5 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.

*6 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 21).

*7 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 10). If the wave form monitor and vector scope are input at the same time, the wave form monitor is displayed.

*8 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 10).

*9 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.

External Control (cont.)

Using the serial communication

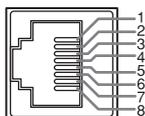
You can control the monitor from a personal computer etc. via the RS-485 or RS-232C terminal.

- 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.)		

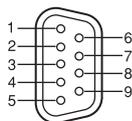
<Specifications of the RS-485 terminal>



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.

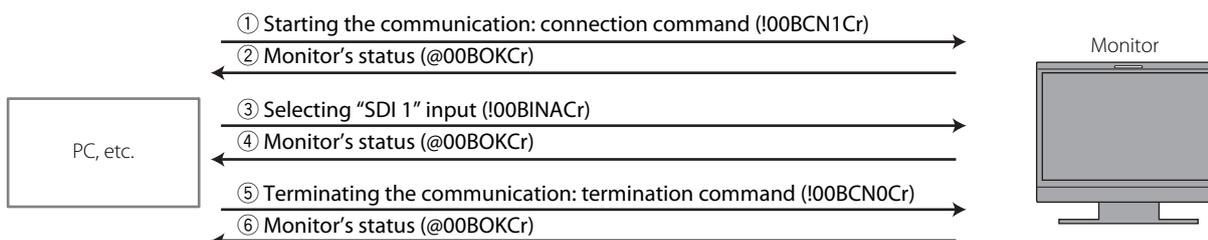
Header	Monitor ID	Command ID	Function	Data	Cr (0Dh)
--------	------------	------------	----------	------	----------

On Header

- "!" : Operation commands from the personal computer, etc. (☞ <Basic command list> on page 25)
- "?" : 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 downward (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 D I S P Cr	Displays the status *3	No data
19	! * **1 B A M U T E x x*2 Cr	Turns muting on/off	00: Off 01: On
20	! * **1 B A S P x x*2 Cr	Changes the aspect ratio	00: 4:3 01: 16:9
21	! * **1 B R O P O S I x x x x*2 Cr	Configures POSITION settings	-999 – +999
22	! * **1 B R O P U S H x x*2 Cr	Configures PUSH SEL. settings	00: Change selection, 01: Reset the position
23	! * **1 B S E L E C T Cr	Operates the SELECT keys	No data

● "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 12).

Troubleshooting

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
Cannot turn on the unit.	<ul style="list-style-type: none"> ● Press the O / I button to turn it on. ● Plugs should be firmly inserted. ● Turn on the AC power switch on the back of this product. 	10 8 8
No picture with the power on.	<ul style="list-style-type: none"> ● Select the correct input using the INPUT SELECT buttons. ● Connect the signal cable firmly. ● 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 8 — 29, 30
No sound.	<ul style="list-style-type: none"> ● Adjust the volume level. ● Deactivate the muting function. ● Connect the signal cable firmly. ● Turn on the power of the connected component and set the output correctly. 	9 9 8 —
"Out of range" appears.	<ul style="list-style-type: none"> ● Input a signal compatible with the unit. 	12, 29, 30
"NO SYNC" appears.	<ul style="list-style-type: none"> ● Select the correct input using the INPUT SELECT buttons. ● Connect the signal cable firmly. ● 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. 	10 8 —
Wrong color, no color.	<ul style="list-style-type: none"> ● 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." ● Check whether the setting of COLOR OFF or SCREENS CHECK buttons are appropriate. ● Adjust the items of "WHITE BALANCE SET." in the SET-UP MENU. Or, perform "reset" in "WHITE BALANCE SET." 	9, 19 10 19
The picture becomes blurred.	<ul style="list-style-type: none"> ● 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. 	9, 19
Wrong picture position, wrong picture size. For some signals, the picture cannot be displayed fully in the effective screen area. There is no sure method to solve this problem.	<ul style="list-style-type: none"> ● Check whether the setting of 1:1 is appropriate. ● Check whether the input signal format is acceptable on the monitor. 	10 29, 30
Some items do not appear on the menu.	<ul style="list-style-type: none"> ● 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. 	— 22
Buttons on the monitor do not work.	<ul style="list-style-type: none"> ● Set "CONTROL LOCK" in the SET-UP MENU to "OFF." ● You cannot use the buttons for the items controlled by the MAKE system. Disable the external control. 	20 22, 23

● 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.

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  / I button to turn off (on standby) the monitor.**
- 3 Turn off the AC power switch on the rear panel.**
- 4 Disconnect the AC power cord from the AC outlet.**
- 5 Contact your dealer with the information about which lamps were flashed.**

- 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.

Available signals

The following signals are available for this monitor.

Video signals

√ : Acceptable

— : Not acceptable

No.	Signal name	Signal format shown in the status display (☰ page 12)	Input terminal					DVI-D (HDCP) (Digital component/Digital RGB)
			VIDEO	COMPO. (Analog component)*1	E. AUDIO SDI (IN 1, IN 2)*2			
					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	—	√*6	√	—	—	—
24	1035/59.94i	1035/59.94i	—	√*7	√	—	—	—
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	—	√*6	√*6	√*3	√*3	—
35	1080/29.97PsF	1080/29.97psf	—	√*7	√*7	√*4	√*4	—
36	1080/24PsF	1080/24psf	—	√	√	√	√	—
37	1080/23.98PsF	1080/23.98psf	—	√	√	√	√	—
38	1080/25PsF	1080/25psf	—	—	√*8	√*5	√*5	—

*1 Analog component signals are compatible with Y on sync signals.

*2 Compatible with EMBEDDED AUDIO signals.

*3 If there is no payload ID, the signal is regarded as 1080/60i, and "1080/60i" and the status appear.

*4 If there is no payload ID, the signal is regarded as 1080/59.94i, and "1080/59.94i" and the status appear.

*5 If there is no payload ID, the signal is regarded as 1080/50i, and "1080/50i" and the status appear.

*6 The signal is regarded as 1080/60i, and "1080/60i" and the status appear.

*7 The signal is regarded as 1080/59.94i, and "1080/59.94i" and the status appear.

*8 The signal is regarded as 1080/50i, and "1080/50i" and the status appear.

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.

- For easy understanding, pictures and illustrations are 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.)

Computer signals (preset)

DVI-D (HDCP) terminals

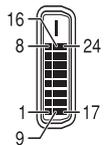
No.	Signal name	Resolution		Frequency		Scan system
		Horizontal	Vertical	Horizontal (kHz)	Vertical (Hz)	
1	VGA60	640	480	31.5	59.9	Non-interlace
2	WVGA60	852	480	31.5	59.9	Non-interlace
3	SVGA60	800	600	37.9	60.3	Non-interlace
4	XGA60	1024	768	48.4	60.0	Non-interlace
5	WXGA (1280)	1280	768	47.8	60.0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

*1 In 1:1 mode, the top and bottom of the screen will be hidden.

- Even for a preset signal, picture may not be normally displayed depending on the signal timing.
- 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

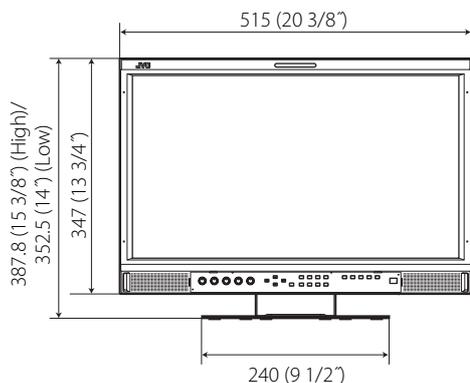
Connect it to the DVI-D output terminal on a personal computer.



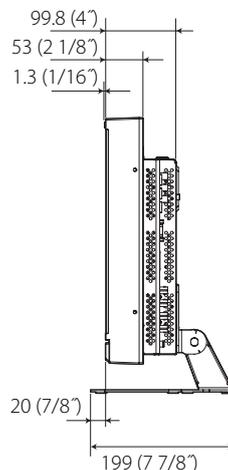
Pin No.	Input signal	Pin No.	Input signal	Pin No.	Input signal
1	T.M.D.S Data 2-	9	T.M.D.S Data 1-	17	T.M.D.S Data 0-
2	T.M.D.S Data 2+	10	T.M.D.S Data 1+	18	T.M.D.S Data 0+
3	T.M.D.S Data 2 shield	11	T.M.D.S Data 1 shield	19	T.M.D.S Data 0 shield
4	NC	12	NC	20	NC
5	NC	13	NC	21	NC
6	DDC Clock	14	+5 V 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-

Dimensions Unit: mm (inch)

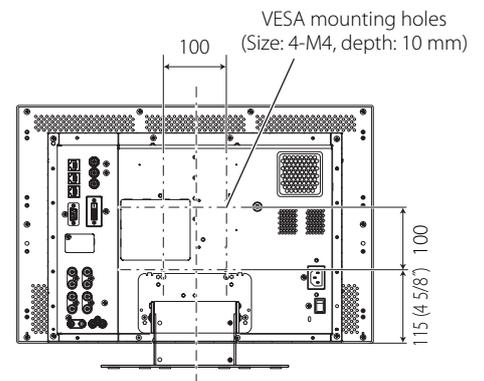
<Front view>



<Side view>



<Rear view>



MULTI FORMAT LCD MONITOR

DT-V21G11Z

JVC