SHARP

PN-H701

LCD MONITOR

OPERATION MANUAL

HDMI MHL

IMPORTANT:
To aid reporting in case of loss or theft, please record the product's model and serial numbers in the space provided. The numbers are located in the rear of the product.

Model No.:

Serial No.:

U.S.A. ONLY

IMPORTANT INFORMATION

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER.
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within a 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 a triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

WARNING:
FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user’s authority to operate this equipment.

NOTE:
This equipment has been tested and found to comply with the limits for 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.

U.S.A. ONLY

DEAR SHARP CUSTOMER

Thank you for your purchase of a SHARP LCD product. To ensure safety and many years of trouble-free operation of your product, please read the Safety Precautions carefully before using this product.

SAFETY PRECAUTIONS

Electricity is used to perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. However, improper use can result in electric shock and/or fire. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your LCD product, please read the following precautions carefully before using the product.

1. Read instructions — All operating instructions must be read and understood before the product is operated.
2. Keep this manual in a safe place — These safety and operating instructions must be kept in a safe place for future reference.
3. Observe warnings — All warnings on the product and in the instructions must be observed closely.
4. Follow instructions — All operating instructions must be followed.
5. Cleaning — Unplug the power cord from the AC outlet before cleaning the product. Use a dry cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
6. Attachments — Do not use attachments not recommended by the manufacturer. Use of inadequate attachments can result in accidents.
7. Water and moisture — Do not use the product near water. Do not install the product in a place where water may splash onto it. Be careful of equipment which drains water such as an air-conditioner.
8. Ventilation — The vents and other openings in the cabinet are designed for ventilation.
   Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a sofa, rug or other similar surface, since they can block ventilation openings. Do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
9. Power cord protection — The power cords must be routed properly to prevent people from stepping on them or objects from resting on them.
10. The LCD panel used in this product is made of glass. Therefore, it can break when the product is dropped or applied with impact. Be careful not to be injured by broken glass pieces in case the LCD panel breaks.
11. Overloading — Do not overload AC outlets or extension cords. Overloading can cause fire or electric shock.
12. Entering of objects and liquids — Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts.
    For the same reason, do not spill water or liquid on the product.
13. Servicing — Do not attempt to service the product yourself. Removing covers can expose you to high voltage and other dangerous conditions. Request a qualified service person to perform servicing.
14. Repair — If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.
    a. When the power cord or plug is damaged.
    b. When a liquid was spilled on the product or when objects have fallen into the product.
    c. When the product has been exposed to rain or water.
    d. When the product does not operate properly as described in the operating instructions.
       Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.
    e. When the product has been dropped or damaged.
    f. When the product displays an abnormal condition. Any noticeable abnormality in the product indicates that the product needs servicing.
15. Replacement parts — In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.
16. Safety checks — Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.
17. Wall mounting — When mounting the product on a wall, be sure to install the product according to the method recommended by the manufacturer.
18. Heat sources — Keep the product away from heat sources such as radiators, heaters, stoves and other heat-generating products (including amplifiers).

SAFETY PRECAUTIONS (Continued)

19. Batteries — Incorrect use of batteries may cause the batteries to burst or ignite. A leaky battery may corrode the equipment, dirty your hands or spoil your clothing. In order to avoid these problems, make sure to observe the precautions below:
    - Use the specified batteries only.
    - Install the batteries with due attention to the plus (+) and minus (-) sides of the batteries according to the instructions in the compartment.
    - Do not mix old and new batteries.
    - Do not mix batteries of different types. Voltage specifications of batteries of the same shape may vary.
    - Replace an exhausted battery with a new one promptly.
    - If you will not use the remote control for a long time, remove the batteries.
    - If leaked battery fluid gets on your skin or clothing, rinse immediately and thoroughly. If it gets into your eye, bathe your eye well rather than rubbing and seek medical treatment immediately. Leaked battery fluid that gets into your eye or your clothing may cause a skin irritation or damage your eye.
20. Usage of the monitor must not be accompanied by fatal risks or dangers that, could lead directly to death, personal injury, severe physical damage or other loss, including nuclear reaction control in nuclear facility, medical life support system, and missile launch control in a weapon system.
21. Do not stay in contact with the parts of the product that become hot for long periods of time. Doing so may result in low-temperature burns. If you need to move the monitor after it has been in use, it may be hot. Turn off the power and make sure it has cooled sufficiently before moving.
22. To prevent fire or shock hazard, do not expose this product to dripping or splashing.
    No objects filled with liquids, such as vases, should be placed on the product.
23. This product must only be connected to a 100-240V, 50/60Hz, grounded (3-prong) outlet.

WARNING:

1) 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.
2) Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
3) To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.
4) An apparatus with CLASS I construction shall be connected to a MAIN socket outlet with a protective earthing connection.

To maintain compliance with EMC regulations, use shielded cables to connect to the following terminals: HDMI input terminal and PC D-sub input terminal.

If a monitor is not positioned in a sufficiently stable location, it can be potentially hazardous due to falling. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using fixing devices like wall mount brackets recommended by the manufacturer.
- Only using furniture that can safely support the monitor.
- Ensuring the monitor is not overhanging the edge of the supporting furniture.
- Not placing the monitor on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the monitor to a suitable support.
- Not standing the monitors on cloth or other materials placed between the monitor and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the monitor or its controls.

Especially for child safety

- Don’t allow children to climb on or play with the monitor.
- Don’t place the monitor on furniture that can easily be used as steps, such as a chest of drawers.
- Remember that children can become excited while watching a program, especially on a “larger than life” monitor. Care should be taken to place or install the monitor where it cannot be pushed, pulled over, or knocked down.
- Care should be taken to route all cords and cables connected to the monitor so that they cannot be pulled or grabbed by curious children.

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.

TIPS AND SAFETY INSTRUCTIONS

- The TFT color LCD panel used in this monitor is made with the application of high precision technology. However, there may be minute points on the screen where pixels never light or are permanently lit. Also, if the screen is viewed from an acute angle there may be uneven colors or brightness. Please note that these are not malfunctions but common phenomena of LCDs and will not affect the performance of the monitor.
- Do not display a still picture for a long period, as this could cause a residual image.
- Never rub or tap the monitor with hard objects.
- Please understand that SHARP CORPORATION bears no responsibility for errors made during use by the customer or a third party, nor for any other malfunctions or damage to this product arising during use, except where indemnity liability is recognized under law.
- This monitor and its accessories may be upgraded without advance notice.
- Do not use the monitor where there is a lot of dust, where humidity is high, or where the monitor may come into contact with oil or steam. Do not use in an environment where there are corrosive gases (sulfur dioxide, hydrogen sulfide, nitrogen dioxide, chlorine, ammonia, ozone, etc.). As this could lead to fire.
- Ensure that the monitor does not come into contact with water or other fluids. Ensure that no objects such as paper clips or pins enter the monitor as this could lead to fire or electric shock.
- Do not place the monitor on top of unstable objects or in unsafe places. Do not allow the monitor to receive strong shocks or to strongly vibrate. Causing the monitor to fall or topple over may damage it.
- Do not use the monitor near heating equipment or in places where there is likelihood of high temperature, as this may lead to generation of excessive heat and outbreak of fire.
- Do not use the monitor in places where it may be exposed to direct sunlight.
- Please be sure to constantly remove dust and garbage that has attached to the ventilation opening. If dust collects in the ventilation opening or the inside of the monitor, it may lead to excessive heat, outbreak of fire, or malfunction.
  Please request a cleaning of the inside of the monitor from an authorized SHARP servicing dealer or service center.
- Images cannot be rotated on this monitor.
  When using in portrait orientation, you will need to prepare appropriately orientated content in advance.
- The AC outlet shall be installed near the equipment and shall be easily accessible.

The Power Cord

- Use only the power cord supplied with the monitor.
- Do not damage the power cord nor place heavy objects on it, stretch it or over bend it. Also, do not add extension cords. Damage to the cord may result in fire or electric shock.
- Do not use the power cord with a power tap.
  Adding an extension cord may lead to fire as a result of overheating.
- Do not remove or insert the power plug with wet hands. Doing so could result in electric shock.
- Unplug the power cord if it is not used for a long time.
- Do not attempt to repair the power cord if it is broken or malfunctioning. Refer the servicing to the service representative.

Manual Scope

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- The terms HDMI and HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
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- MHL, the MHL logo, and Mobile High-Definition Link are trademarks or registered trademarks of MHL, LLC in the United States and other countries.
- The monitor is manufactured based on a license from Dolby Laboratories.
- Dolby and Double D Signal are trademarks of Dolby Laboratories.
- All other brand and product names are trademarks or registered trademarks of their respective holders.
- Language of OSD menu used in this manual is English by way of example.
- Illustrations in this manual may not exactly represent the actual product or display.
- This manual assumes use in landscape orientation, except where specifically noted.

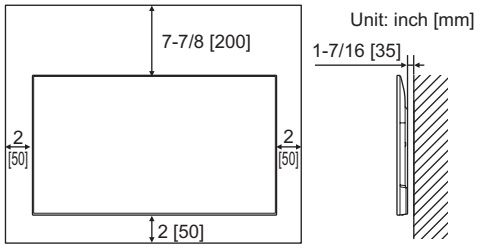
LED Backlight

- The LED backlight in this product has a limited lifetime.
  * If the screen gets dark or does not turn on, it may be necessary to replace the LED backlight.
  * This LED backlight is exclusive to this product and must be replaced by an authorized SHARP servicing dealer or service center. Please contact an authorized SHARP servicing dealer or service center for assistance.

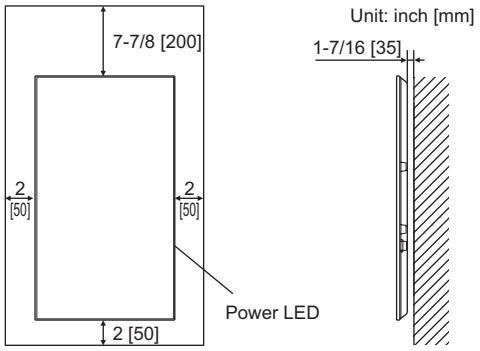
MOUNTING PRECAUTIONS

- This product is for use indoors.
- A mounting bracket compliant with VESA specifications is required.
- Since the monitor is heavy, consult your dealer before installing, removing or moving the monitor.
- Mounting the monitor on the wall requires special expertise and the work must be performed by an authorized SHARP dealer. You should never attempt to perform any of this work yourself. Our company will bear no responsibility for accidents or injuries caused by improper mounting or mishandling.
- Use the monitor with the surface perpendicular to a level surface. If necessary, the monitor may be tilted up to 20 degrees upward or downward.
- This monitor should be used at an ambient temperature between 32°F (0°C) and 104°F (40°C). Provide enough space around the monitor to prevent heat from accumulating inside.

For the monitor in landscape orientation

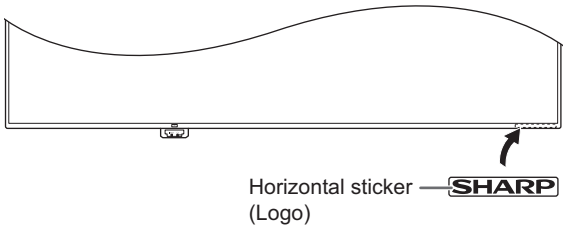


For the monitor in portrait orientation

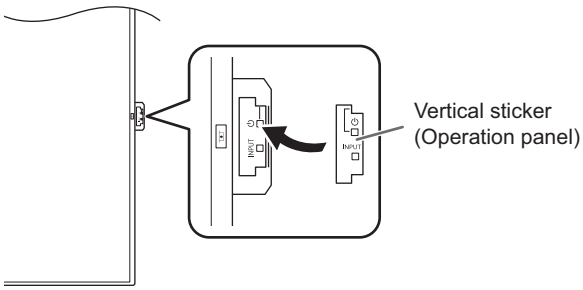


- If it is difficult to provide sufficient space for any reason such as the installation of the monitor inside a housing, or if the ambient temperature may be outside of the range of 32°F (0°C) to 104°F (40°C), install a fan or take other measures to keep the ambient temperature within the required range.
- Temperature condition may change when using the monitor together with the optional equipments recommended by SHARP. In such cases, please check the temperature condition specified by the optional equipments.
- Do not block any ventilation openings. If the temperature inside the monitor rises, this could lead to a malfunction.
- Do not place the monitor on a device which generates heat.
- Adhere to the following when installing the monitor in its portrait orientation. Failing to adhere to the following may cause malfunctions.
  - Install the monitor such that the power LED is located on the bottom side.
  - Set the MONITOR on the MONITOR menu to PORTRAIT. (See page 28.)
- When installing the monitor in the portrait orientation, and the internal temperature of the monitor rises excessively, the brightness of the backlight automatically decreases in order to prevent a further temperature rise.
- Use the supplied sticker.

For the monitor in landscape orientation



For the monitor in portrait orientation



Be careful not to cover the remote control sensor or switches.

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Supplied Components

If any component should be missing, please contact your dealer.

- ☐ Liquid Crystal Display Monitor: 1
- ☐ Remote control unit: 1
- ☐ Cable clamp: 4

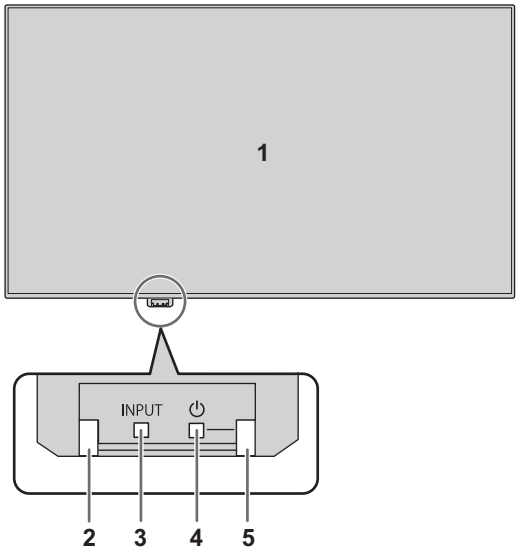
- ☐ Cable clamp (insertion type): 2

- ☐ Power cord: 1
- ☐ LR-6 battery (“AA” size): 2
- ☐ CD-ROM (Utility Disk for Windows): 1
- ☐ Setup Manual: 1
- ☐ Power cord clamp: 1
- ☐ Power cord clamp screw: 1
- ☐ USB flash drive cover: 1
- ☐ USB flash drive cover screw: 1
- ☐ Horizontal sticker (Logo): 1
- ☐ Vertical sticker (Operation panel): 1
- ☐ RS-232C conversion cable (3.5 mm mini jack): 1
- ☐ USB extension cable: 1

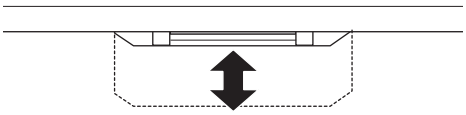
* SHARP Corporation holds authorship rights to the Utility Disk program. Do not reproduce it without permission.
* For environmental protection!
Do not dispose of batteries in household waste. Follow the disposal instructions for your area.

Part Names

■Front view



Accessing the operation panel

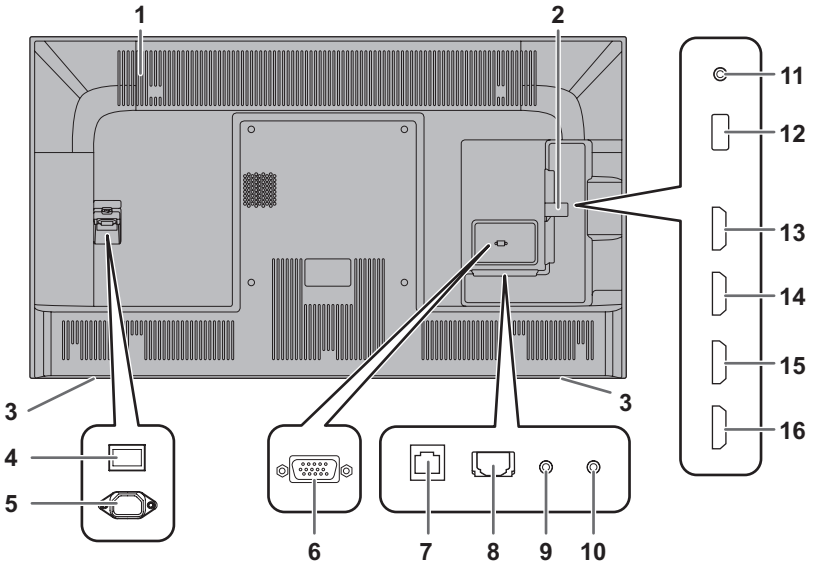


1. **LCD panel**
2. **Remote control sensor** (See page 16.**)**
3. **Input switch** (See page 18.**)**
4. **Power switch** (See page 17.**)**
5. **Power LED** (See page 17.)

TIPS

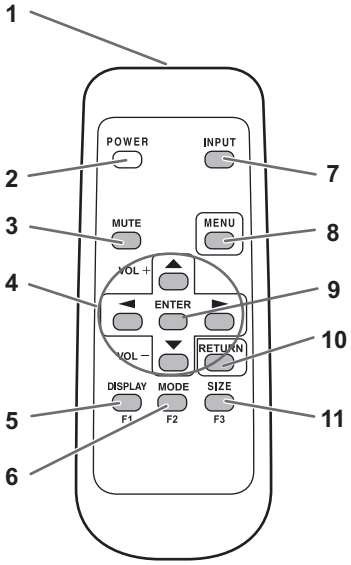
- Use a pointed object such as a pen tip to press the switches.

■Rear view



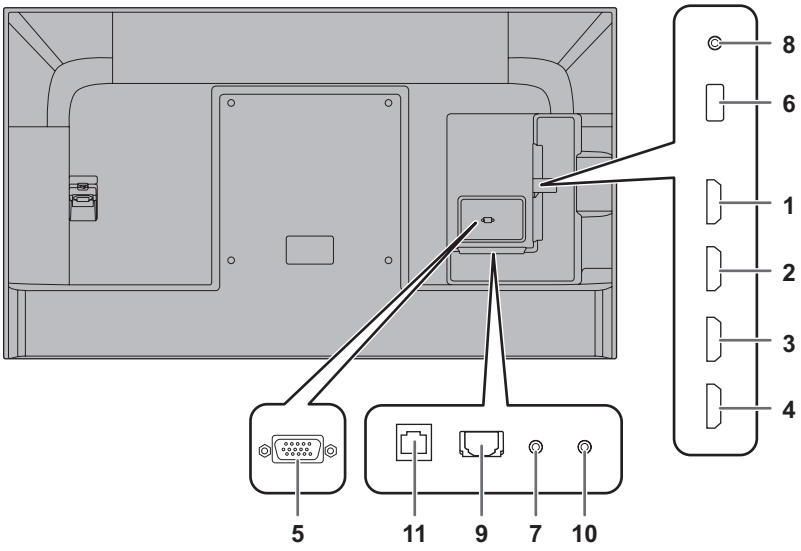
1. **Vents**
2. **USB flash drive cover** (See page 15.)
3. **Speakers**
4. **Main power switch** (See page 17.)
5. **AC input terminal** (See page 14.)
6. **PC D-sub input terminal** (See page 13.)
7. **LAN terminal** (See page 13.)
8. **Digital audio output (optical) terminal** (See page 13.)
9. **Audio input terminal** (See page 13.)
10. **CONTROL terminal (RS-232C input terminal)** (See page 13.)
11. **Headphone terminal** (See page 13.)
12. **USB port** (See page 13.)
13. **HDMI1 input terminal** (See page 12.)
14. **HDMI2 input terminal** (See page 12.)
15. **HDMI3 input terminal** (See page 12.)
16. **HDMI4 input terminal** (See page 12.)

■Remote control unit



1. **Signal transmitter**
2. **POWER button** (See page 17.)
3. **MUTE button** (See page 18.)
4. **VOL +/- buttons** (See page 18.)
   Cursor control (▲ / ▼ / ◄ / ►) buttons
5. **DISPLAY/F1 button** (See page 18.)
6. **MODE/F2 button** (See page 18.)
7. **INPUT button** (See page 18.)
8. **MENU button** (See page 18.)
9. **ENTER button** (See page 18.)
10. **RETURN button** (See page 18.)
11. **SIZE/F3 button** (See page 18.)

Connecting Peripheral Equipment



! Caution

- Be sure to turn off the main power switch and disconnect the plug from the power outlet before connecting/ disconnecting cables. Also, read the manual of the equipment to be connected.
- Be careful not to confuse the input terminal with the output terminal when connecting cables. Accidentally reversing cables connected to the input and output terminals may cause malfunctions and the other problems.
- Do not use any cable that has a damaged or deformed terminal. Using such cables may cause malfunctions.

TIPS

- Images may not be displayed properly depending on the computer (video card) to be connected.
- Perform automatic adjustment using SCREEN POSITION of INPUT SELECT in the SETUP menu when a PC screen is displayed using D-SUB, or when the setting of the PC is changed.
- If the audio output from the playback device is connected directly to speakers or other devices, the video on the monitor may appear delayed from the audio portion. Audio should be played through this monitor by connecting the playback device to the monitor's audio input, and connecting the monitor's audio output to the speakers or other devices.

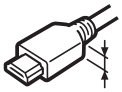
Connection with a PC or AV equipment

1. **HDMI1 input terminal**
2. **HDMI2 input terminal**
3. **HDMI3 input terminal**
4. **HDMI4 input terminal**

- Connect with a commercially available HDMI certified cable. For the following, use a high-speed HDMI cable:
  - When connecting a device that is compatible with 4K2K output.
  - When inputting a 1080p video signal
- The HDMI1 input terminal is compatible with ARC (Audio Return Channel).
  To connect an ARC-compatible audio device using an HDMI cable, connect to the HDMI1 input terminal.
- When using the audio input terminal with HDMI input, use the HDMI3 input terminal and set AUDIO SELECT of INPUT SELECT in the SETUP menu to HDMI + ANALOG.
- The HDMI4 input terminal is compatible with MHL (Mobile High-Definition Link).
  An MHL-compatible smartphone can be connected using a commercially available MHL cable to show video from the smartphone on the monitor while charging the smartphone. When a MHL is connect, the input is automatically switched to HDMI4.
  This product supports MHL1.
- Compatible copyright protection signals
  - HDMI1 - 3 input terminals: HDCP1.4
  - HDMI4 input terminal: HDCP2.2

  When the connection between HDMI1 to HDMI3 and HDMI4 is switched, it could be necessary to reconfigure the computer.
- For a 3840 × 2160 (60 Hz) video signal
  - HDMI1 - 3 input terminals are compatible with 4:4:4, 4:2:2, and 4:2:0 formats.
  - HDMI4 input terminal is only compatible with 4:2:0 format.
  - If input in 4:4:4 format is not necessary, use the HDMI4 input terminal. If an HDMI1 - 3 input terminal is used, the video or audio may not be output correctly.

- Compatible audio signals
  - Type: Linear PCM (2 ch), AAC, Dolby Digital
  - Sampling frequency: 48kHz / 44.1kHz / 32kHz
- Use an HDMI cable connector with the following dimensions:



Thickness: 1/2 inch (12 mm) or less

5. PC D-sub input terminal

- When using the audio input terminal with the PC D-sub input terminal, set AUDIO SELECT of INPUT SELECT in the SETUP menu to VIDEO + AUDIO.
- When using the PC D-sub input terminal, space is required behind the monitor.

6. USB port

- Connect a USB flash drive to the USB port.
- Do not connect a USB device other than a USB flash drive.
- Turn off the power of the monitor when removing a USB flash drive.

Supported USB flash drives

File System	FAT32
Capacity	Up to 32 GB (maximum file size 2 GB)

- Do not use a USB flash drive with a security function or a write protection function.
- Use a USB flash drive with a shape that can be inserted in the USB port. Some USB flash drives with special shapes cannot be inserted. Do not forcibly insert a USB flash drive. This may damage the connector and cause failure.

7. Audio input terminal

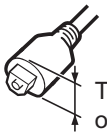
- This is used to input analog audio when video is shown using the HDMI3 input terminal or the PC D-sub input terminal. Check the setting in AUDIO SELECT of INPUT SELECT in the SETUP menu.
- Use an audio cable without resistance.

8. Headphone terminal

- Use commercially available headphones (mini stereo jack).
- The output sound varies depending on the input mode.
- The volume can be adjusted using the volume adjustment.
- When headphones are connected to the headphone terminal, sound is not output from the monitor speakers.

9. Digital audio output (optical) terminal

- You can output MPEG2 AAC / Dolby Digital audio format from the monitor.
- Use the following for the digital audio output (optical) terminal.



Thickness: 1/2 inch (12 mm) or less

10. CONTROL terminal (RS-232C input terminal)

- The monitor can be connected to a PC using the RS-232C conversion cable (supplied) and a commercially available RS-232 straight cable to control the monitor from the PC.

11. LAN terminal

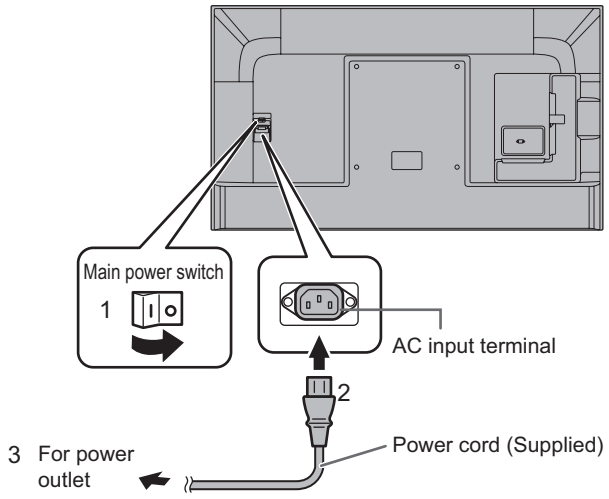
- You can control the monitor from a PC on a network by connecting a commercially available LAN cable between this terminal and a network.

Connecting the Power Cord

! Caution

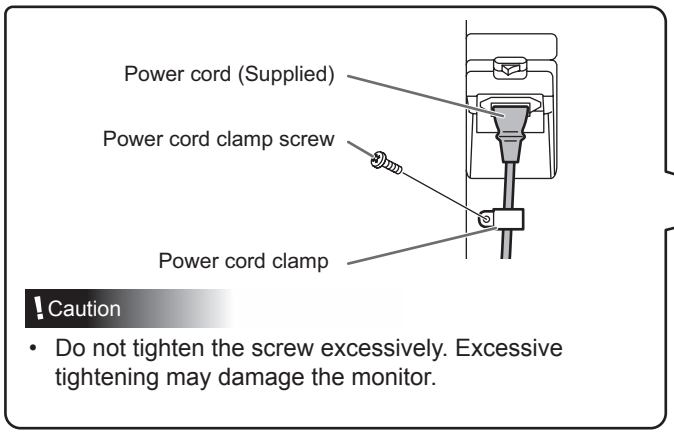
- Use only the power cord supplied with the monitor.

1. Turn off the main power switch.
2. Plug the power cord (supplied) into the AC input terminal.
3. Plug the power cord (supplied) into the AC power outlet.



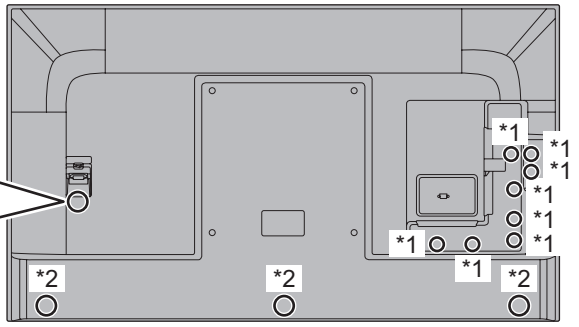
Binding Cables

The cables connected to the terminals on the rear of the monitor can be fastened with the cable clamp.

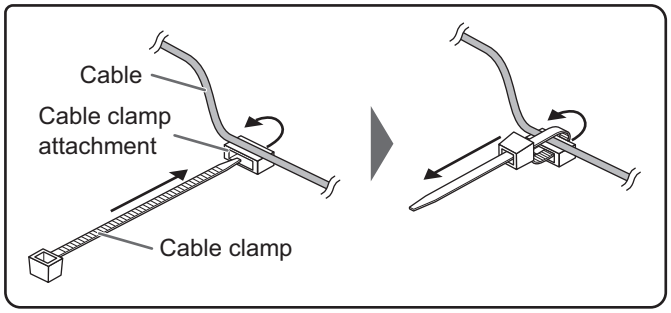


! Caution

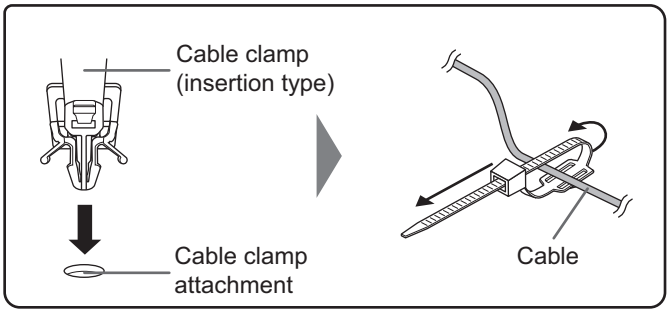
- Do not tighten the screw excessively. Excessive tightening may damage the monitor.



*1

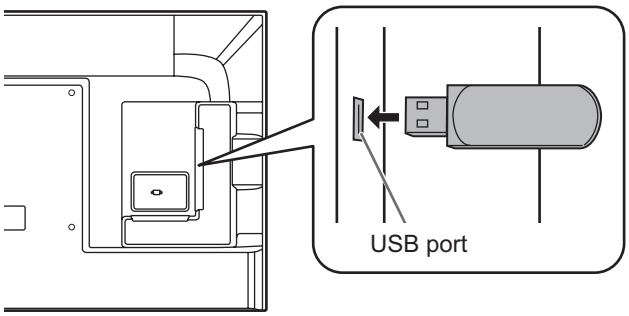


*2

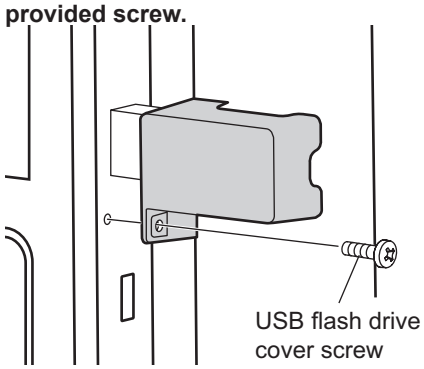


Setting the USB flash drive cover

1. Insert the USB flash drive into the USB port.



2. Attach the USB flash drive cover and secure with the provided screw.



! Caution

- Do not tighten the screw excessively. Excessive tightening may damage the monitor.

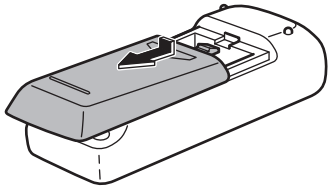
TIPS

- If the USB flash drive will be attached, use a USB flash drive with dimensions no greater than 1-15/16 inch (50 mm) (L) × 13/16 inch (20 mm) (W) × 1/2 inch (12 mm) (H).

Preparing the Remote Control Unit

Installing the batteries

1. Press the cover gently and slide it in the direction of the arrow.



2. See the instructions in the compartment and put in the supplied batteries (LR-6 (“AA” size) x 2) with their plus (+) and minus (-) sides oriented correctly.
3. Close the cover.

TIPS

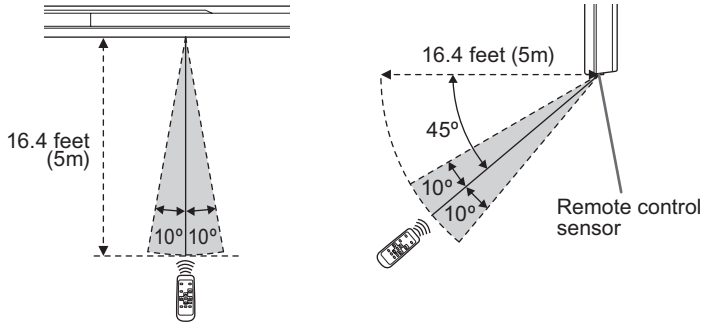
- When the batteries become exhausted, replace them with new (commercially available) batteries.
- The supplied batteries (LR-6 (“AA” size) x 2) may become exhausted quickly depending on how they are stored.
- If you will not be using the remote control for a long time, remove the batteries.
- Use manganese or alkaline batteries only.

Remote control operation range

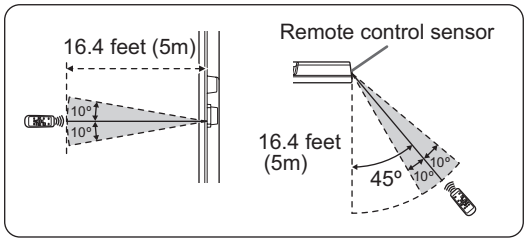
Operation panel in

The remote control can be operated even when the operation panel is stored inside the monitor.
Point the remote control toward the remote control sensor on the bottom of the monitor (or the right side of the monitor if using portrait orientation).

For the monitor in landscape orientation



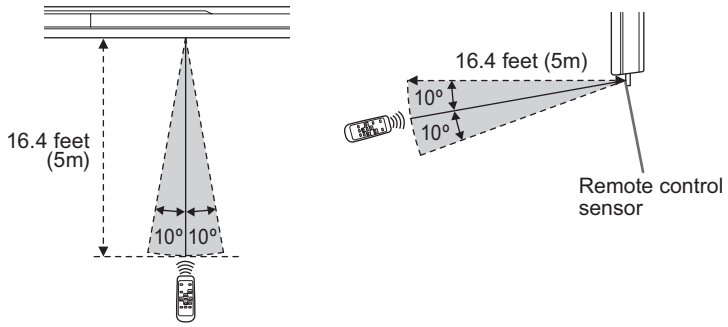
For the monitor in portrait orientation



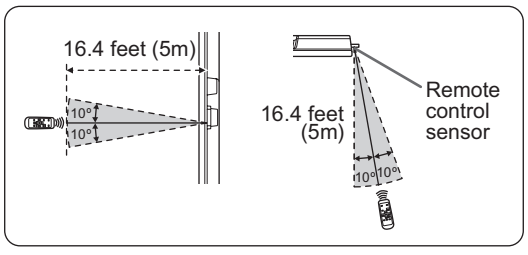
Operation panel out

Point the remote control toward the remote control sensor on the front of the monitor.

For the monitor in landscape orientation



For the monitor in portrait orientation



TIPS

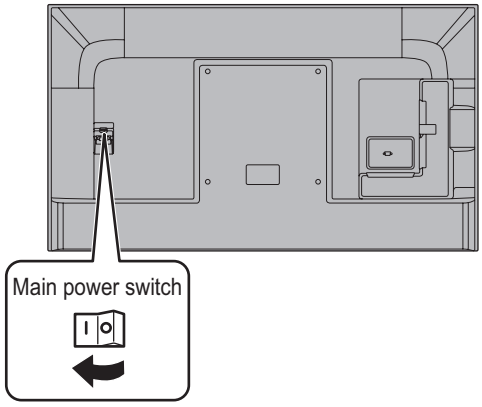
- Do not expose the remote control unit to shock by dropping or stepping on it. This could lead to a malfunction.
- Do not expose the remote control unit to liquids, and do not place it in an area with high humidity.
- The remote control unit may not work properly if the remote control sensor is under direct sunlight or strong lighting.
- Objects between the remote control unit and the remote control sensor may prevent proper operation.
- Replace the batteries when they run low as this may shorten the remote control’s operation range.
- If a fluorescent light is illuminated near the remote control unit, it may interfere with proper operation.
- Do not use it with the remote control of other equipment such as air conditioner, stereo components, etc.

Turning Power On/Off

Caution

- Turn on the monitor first before turning on the PC or playback device.

Turning on the main power

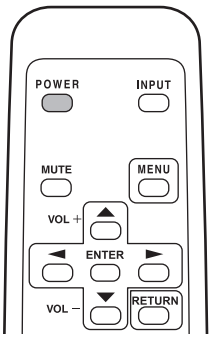


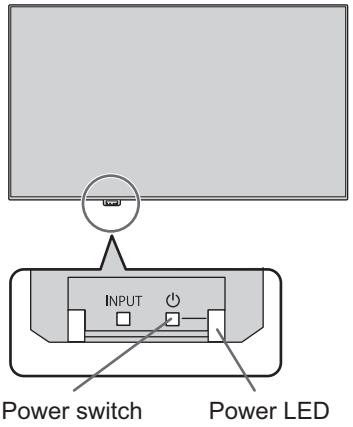
Caution

- The main power must be turned on/off with the main power switch. Do not connect/disconnect the power cord or turn the breaker on/off while the main power switch is on.
- When turning the power off and back on, always wait for at least 5 seconds.
- For a complete electrical disconnection, pull out the main plug.

Turning power on/off

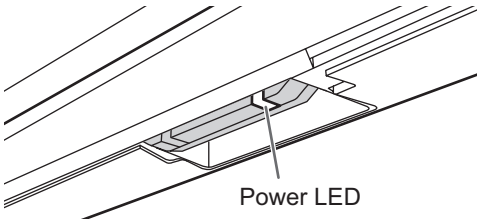
Press the POWER button or POWER switch to turn the power ON/OFF.





Status	Status of the monitor
Green lit	Power on
Orange lit	Power off (Standby mode)

It is possible to check the power LED even when the operation panel is stored inside the monitor.



Caution

- When turning the power off and back on, always wait for at least 5 seconds. A short interval may result in a malfunction.

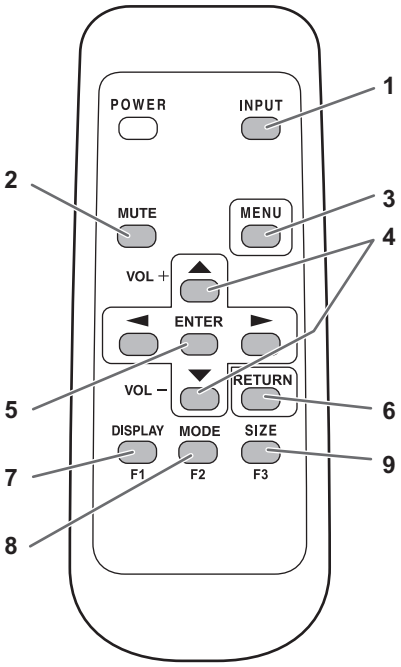
TIPS

- When the main power switch is off, the monitor cannot be turned on.

Disabling power on/off operations

Power on/power off operations can be disabled in order to protect the monitor from an accidental power off. Set the POWER BUTTON LOCK in FUNCTION menu. (See page 30.)

Basic Operation



1. INPUT (Input mode selection)

The menu is displayed. Press ▲ or ▼ to select the input mode, and press ENTER to enter.

* You can select the input mode that shows SELECTABLE.

* You can select the input mode by pressing the input switch of the monitor.

Video and audio input terminals for each input mode are shown below.

Input mode	Video	Audio
HDMI1	HDMI1 input terminal	HDMI1 input terminal
HDMI2	HDMI2 input terminal	HDMI2 input terminal
HDMI3	HDMI3 input terminal	HDMI3 input terminal/ Audio input terminal *1
HDMI4	HDMI4 input terminal	HDMI4 input terminal
D-SUB	PC D-sub input terminal	Audio input terminal *2
MULTIMEDIA *3	USB port / Internal memory	USB port

*1 When using the audio input terminal with HDMI3, set AUDIO SELECT of INPUT SELECT in the SETUP menu to HDMI + ANALOG. (See page 27.)

*2 When using the audio input terminal, set AUDIO SELECT of INPUT SELECT in the SETUP menu to VIDEO + AUDIO. (See page 27.)

*3 MULTIMEDIA menu is displayed in landscape.

When a USB flash drive is connected, the input mode automatically changes to MULTIMEDIA.

2. MUTE

Turns off the volume temporarily.
Press the MUTE button again to turn the sound back to the previous level.

3. MENU

Displays and turns off the menu screen. (See page 24.)

4. VOL +/- (Volume adjustment)

Pressing ▲ or ▼ displays the volume menu when the menu screen is not displayed.

Press ▲ or ▼ to adjust the volume of the sound.

* If you do not press any buttons for about 3 seconds, the volume menu automatically disappears.

5. ENTER

Confirms the setting.

6. RETURN

Returns to the previous screen.

7. DISPLAY/F1

Displays monitor information (input mode, resolution, etc.).

8. MODE/F2 (Picture mode selection)

Each time you press this button, the picture mode changes in the following order:

PC* → PHOTO → sRGB → DYNAMIC →
HIGH RESOLUTION → AV → MOVIE → GAME → PC...

* PC applies to HDMI1 - HDMI4, D-SUB only.

• sRGB is international standard of color representation specified by IEC (International Electrotechnical Commission). Color conversion is made in taking account of liquid crystal's characteristics and represents color tone close to its original image.

9. SIZE/F3 (Screen size selection)

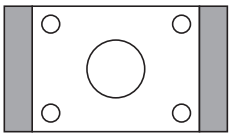
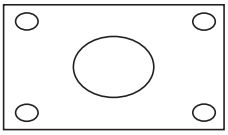
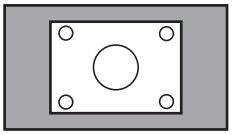
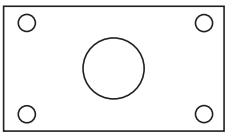
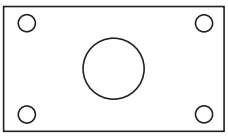
The screen size menu is displayed.
Press ▲ or ▼ to select the screen size. (See page 19.)

TIPS

• 7 DISPLAY (F1), 8 MODE (F2), and 9 SIZE (F3) are also used in MULTIMEDIA and during character entry.

■Switching the screen size

Even when the screen size is changed, the display may remain the same depending on the input signal.

NORMAL		Displays image so it fills the screen without changing the aspect ratio of the input signals.
WIDE		Displays image so it fills the entire screen.
DOT BY DOT		Displays the dots of the signals input from the connected PC as the corresponding dots on the screen. When the image resolution is 1920x1080 pixels or lower, the image is expanded to twice the height and width of the original.
UNDERSCAN		Displays the image of the input signal without modification.
ZOOM		Displays a CinemaScope or 16:9 size video content in full-screen mode.

TIPS

- Using this monitor's screen-size switching or dual-screen display functions to compress or expand the screen for commercial or public viewing in establishments like cafes or hotels may infringe on the rights of the creators, as protected by Copyright Law, so please be careful.
- The appearance of the original video may change if you select a screen size with a different aspect ratio than the original image (e.g. TV broadcast or video input from external equipment).
- When an ordinary non-wide image (4:3) is viewed with the whole screen using the screen-size switching function of this monitor, the edge of the image may be lost or appear distorted. If you wish to respect the creator's intentions, set the screen size to "NORMAL".
- When playing commercial software, parts of the image (like subtitles) may be cropped. In this case select the optimal screen size using the screen-size switching function of this monitor. With some software, there may be noise or distortion at the edges of the screen. This is due to the characteristics of the software, and is not a malfunction.
- Depending on the original image size, black bands may remain at the edges of the screen.
- Input signals under 4K2K resolution are displayed in 3840 x 2160 resolution level by upscaling. (Except for DOT BY DOT)

Playing files

You can play photo, music, and video files in a USB flash drive connected to the monitor, or photo files in internal memory. For information on USB flash drive, see page 13.

■ Supported formats

The types of files that can be played are as follows.

The operation of formats not indicated in the table is not guaranteed.

Photo files

Extension	Display size
.jpg (.jpeg, *.jpe)	32 x 32 - 8192 x 8192

- Progressive JPEG files are not supported.
- Supported color formats are YUV4:4:4/YUV4:2:2/YUV4:2:0.

Music files

Extension	Audio codec
*.mp3	MPEG-1 L3
*.wav	WAV (LPCM)
*.wma	WMA
*.m4a	AAC (MPEG4)

Video files

Video files up to Full HD can be played.

Extension	Video codec	Audio codec
*.m2ts	MPEG2/H.264	AAC, AC-3, MP3, LPCM
*.mp4	H.264	AAC, AC-3, MP3
*.3gp	H.264	AAC
*. mov	H.264	AAC, AC-3, MP3, LPCM

- Both video codec and audio codec need to be supported.
- The recommended frame rate for video 30 fps.

- In some cases it may not be possible to play the above files.
- Do not place files other than the above in memory for playback.
- When file names or folder names are long, some characters may not appear in the list screen.
- Do not use a file that is over 2 GB.

Playing files

Play files in a USB flash drive

- You can play photo, music, and video files in a USB flash drive connected to the monitor.
- You can have photo files play automatically when a USB flash drive is connected or the power is turned on. (See page 22.)

Play files in internal memory

- You can play photo files in internal memory. The photo file must first be copied to internal memory. (See page 21.)
- You can have photo files play automatically when the power is turned on. (See page 22.)

■ Select the media from which the file will play

1. **Change an input mode to MULTIMEDIA. (See page 18.)**
   When a USB flash drive is connected, the input mode automatically changes to MULTIMEDIA.
2. **Press DISPLAY (F1).**
3. **Select the media with ◄ or ►.**
4. **When you have finished, press ENTER.**

■ Playing files

For the actions that you can take in each screen, see page 22 to 23.

1. **Select the type of file to be played with ◄ or ►, and press ENTER.**
2. **Select the folder with ◄ or ►, and press ENTER.**
3. **Select and play the file.**

Photo files

- To play a file, select the file with ▲, ▼, ◄ or ► and press ENTER.
  Move to the previous file during display with ◄. Move to the next file with ►.
- You can play a slideshow.
  (1) Press MODE (F2) to show the slideshow photo selection screen.
  (2) Select each file with ▲, ▼, ◄ or ►, and press SIZE (F3) to check or uncheck the checkbox.
  Files with checkmarks are played in the slideshow.
  (3) To start the slideshow, press MODE (F2).

Music files / Video files

- To play a file, select the file with ▲ or ▼ and press ENTER.
- You can select a file and press SIZE (F3) to check or uncheck the checkbox.
  When playing a checked file, checked files are played in order.
  When plyaing an unchecked file, only that file is played.

4. **End playback**

Photo files / Video files

- Press RETURN.

Music files

- Press MODE (F2).

Playing music files in slide show

When playing a slideshow using photos in a USB flash drive, you can play multiple music files.

1. **Select PHOTO with ◄ or ► and press ENTER.**
2. **Select the folder with ◄ or ► and press ENTER.**
3. **Press MODE (F2) to show the slideshow photo selection screen, and select photos.**
4. **Press DISPLAY (F1) in the slideshow photo selection screen, select SELECT SLIDE SHOW BGM with ▲ or ▼, and then press ENTER.**
5. **Check the media, and press ENTER.**
6. **Select the folder that contains the files you want to play with ◄ or ►, and press ENTER.**
7. **Select files.**
   Select each file with ▲ or ▼, and press SIZE (F3) to check or uncheck the checkbox.
   Files with checkmarks are played at the same time as the slideshow. When it is finished, press RETURN.
8. **When you have finished selecting the files, press RETURN to return to the slideshow photo selection screen.**
9. **Press MODE (F2) to start the slideshow.**
   When playing a slideshow using photos in a USB flash drive, you can play multiple music files.

TIPS

- To return to the previous item, press RETURN.
- The slideshow and auto play (see page 22) order is the same as the order of the files shown in the list. If the file order is changed, the play order will also change. (See page 23.)
- In a portrait installation, a portrait photo may occasionally appear in landscape orientation. If this occurs, set the EXIF information (rotation information) in the file to no rotation using an image processing program on your computer.
- If you stop a video file before it is finished playing and then press ENTER to play the file, the file will resume from the point where it was stopped. To play the file from the beginning, start playback with MODE (F2).
- The preview view of the video list may take time to appear with some files. Wait until the previews appear before performing the next step.

■ Copy photo files to internal memory

You can copy photo files from a USB flash drive to internal memory and play the files.

1. **Insert the USB flash drive into a USB port on the monitor. (See page 13.)**
2. **Set the media to USB flash drive. (See page 20.)**
3. **Select PHOTO with ◄ or ► and press ENTER.**
4. **Select the folder that contains the files to be copied with ◄ or ► and press ENTER.**
5. **Press DISPLAY (F1), select COPY PHOTO with ▲ or ▼ and press ENTER.**
6. **Select the file copy method and press ENTER.**
   - **ALL FOLDER**
     Copy all files in a USB flash drive to the internal memory.
   - **CURRENT FOLDER**
     Copy all files in the selected folder to the internal memory.
   - **SELECTED FILE**
     You can select files to be copied with ▲, ▼, ◄ or ►, and then press SIZE (F3). When you have finished selecting files, press MODE (F2).
7. **Press ENTER.**
8. **Select the folder where the file will be copied to.**
   You can select CREATE NEW FOLDER to create a new folder.
9. **Select YES with ▲ or ▼ and press ENTER.**
   File copying starts. To cancel while the file is being copied, press ENTER (CANCEL).
10. **When copying finishes, press ENTER.**

TIPS

- Files cannot be copied from internal memory to a USB flash drive.

■ Delete multiple photo files from internal memory

1. **Set the media to INTERNAL MEMORY. (See page 20.)**
2. **Select PHOTO with ◄ or ► and press ENTER.**
3. **Select the folder that contains file you want to delete with ◄ or ►, and press ENTER.**
4. **Press DISPLAY (F1), select DELETE PHOTE with ▲ or ▼ and press ENTER, and then delete the file.**

Auto playback

Photos in a USB flash drive or the internal memory can be played automatically.

■ Preparations

Prepare the photo files.

1. **Create a folder named “autoplay” in the root folder of a USB flash drive or the internal memory, and copy the photo files to be automatically played to the folder.**

Select whether EXTERNAL STORAGE or INTERNAL MEMORY is used for auto play.

1. **Press MENU, select OTHERS with ◄ or ► and press ENTER.**
2. **Select MULTIMEDIA AUTOPLAY with ▲ or ▼ and press ENTER.**
3. **Select the media that is used with ▲ or ▼ and press ENTER.**
   INTERNAL MEMORY : Internal memory
   EXTERNAL STORAGE : USB flash drive
4. **Press MENU.**

■ Auto playback of files

Operation depends on the MULTIMEDIA AUTOPLAY setting.

- **INTERNAL MEMORY**
  Turn on the monitor power.
  Auto play starts.
- **EXTERNAL STORAGE**
  Connect a USB flash drive (see page 13) and turn on the monitor power.
  Auto play starts.

  You can connect a USB flash drive (see page 13) after turning on the monitor power.
  Auto play starts.

TIPS

- Auto play plays all photo files in the “autoplay” folder. The files that are played cannot be selected.
- The auto play order is the same as the order of the files in the list. To change the play order, change the order of the files in the list. (See page 23.)
- If the folder or a file format does not meet the above conditions for the folder or file format (see page 20), or if MULTIMEDIA AUTOPLAY is not correctly set in the OTHERS menu, auto playback will not start.

■ To stop auto play

1. **Press RETURN.**

Operations during play

■ Photo files

Operation is possible using the buttons below.

◄ / ► : Show the previous photo file / next photo file. (Single photo display only)

DISPLAY (F1) : Show the Function menu. (See page 23.)

MODE (F2) : Show/hide guidance.

SIZE (F3) : Rotate the display 90° clockwise. (Single photo display only)
If you use this function to rotate a photo with portrait resolution, the image may become grainier and the rotation setting will not be saved. When using a portrait photo in a portrait installation, use a photo that has been rotated in advance.

RETURN : End playback.

■ Music files

Operation is possible using the buttons below.

ENTER : Pause the file that is being played.
To resume playing the paused file, press ENTER.

▲ / ▼ : Adjust the volume of the sound.

DISPLAY (F1) : Show the Function menu. (See page 23.)

MODE (F2) : End playback.

■ Video files

Operation is possible using the buttons below.

▲ / ▼ : Adjust the volume of the sound.

DISPLAY (F1) : Show the Function menu. (See page 23.)
When the operation panel is displayed, you can perform the actions below. Select the action with ▲ ▼ ◄ ►, and execute with ENTER.
Play, stop, rewind, fast-forward, pause, play previous/next file, rewind about 10 seconds, fast-forward about 30 seconds.

MODE (F2) : Show/hide guidance.

RETURN : End playback.
When a video file is stopped before it finished, press ENTER to resume the video or press MODE (F2) to play the video from the beginning.

Function menu

Press DISPLAY (F1) while each screen is displayed.
Select an item with ▲ or ▼ and press ENTER.

■ Photo files

Photo file is selected

VOLUME SETTING
Adjust the volume with ▲ or ▼.

COPY PHOTO
Copy photo files from a USB flash drive to the internal memory. (See page 21.)

DELETE PHOTO
Delete multiple photo files from the internal memory.

SCREEN SIZE
Changes the screen size. (See page 19.)
TRIMMING trims the top and bottom of a 4:3 video to show it in full screen mode without changing the aspect ratio.

SLIDE SHOW PHOTO SELECT
Show the slideshow photo selection screen. (See page 21.)

SLIDE SHOW SETTING
Set slideshow settings.

SORT
Sort the files.
The slideshow and auto play will play in the sorted order.

SELECT MEDIA
Change the media that is used. (See page 20.)

Photo file copy / delete screen is displayed

SELECT ALL
Select all files in the selected folder.

CANCEL ALL
Cancel all file selections in the selected folder.

Slideshow photo selection screen is displayed

VOLUME SETTING
Adjust the volume with ▲ or ▼.

SCREEN SIZE
Changes the screen size. (See page 19.)
TRIMMING trims the top and bottom of a 4:3 video to show it in full screen mode without changing the aspect ratio.

SLIDE SHOW SETTING
Set slideshow settings.

SELECT SLIDE SHOW BGM
Show the slideshow BGM selection screen. (See page 21.)

SET ALL SLIDE SHOW IMAGE
Select all files in the selected folder.

RESET ALL SLIDE SHOW IMAGE
Cancel all file selections in the selected folder.

Single photo file is displayed / Playing slideshow

VOLUME SETTING
Adjust the volume with ▲ or ▼.

SCREEN SIZE
Changes the screen size. (See page 19.)
TRIMMING trims the top and bottom of a 4:3 video to show it in full screen mode without changing the aspect ratio.

SLIDE SHOW SETTING (Show the slideshow only)
Set slideshow settings.

PICTURE MODE
Changes the picture mode on the screen. (See page 18.)

■ Music files

Include the slideshow BGM selection screen.

VOLUME SETTING
Adjust the volume with ▲ or ▼.

SET ALL AUTO PLAY / SET ALL BGM
Select all files in the selected folder.

RESET ALL AUTO PLAY / RESET ALL BGM
Cancel all file selections in the selected folder.

SELECT MEDIA
Change the media that is used. (See page 20.)

■ Video files

Video file is selected

VOLUME SETTING
Adjust the volume with ▲ or ▼.

SET ALL AUTO PLAY
Select all files in the selected folder.

RESET ALL AUTO PLAY
Cancel all file selections in the selected folder.

SELECT MEDIA
Change the media that is used. (See page 20.)

Playing video file

VOLUME SETTING
Adjust the volume with ▲ or ▼.

OPERATION PANEL
Shows the operation panel to let you perform the following actions. Select the action with ▲ ▼ ◄ ► and execute with ENTER : play, stop, rewind, fast forward, pause, play previous/next file, rewind about 10 seconds, fast forward about 30 seconds.

PICTURE MODE
Changes the picture mode on the screen. (See page 18.)

WIDE MODE
Changes the screen size. (See page 19.)

Menu Items

Displaying the menu screen

Video and audio adjustment and settings of various functions are enabled. This section describes how to use the menu items. See pages 25 to 28 for details of each menu items.

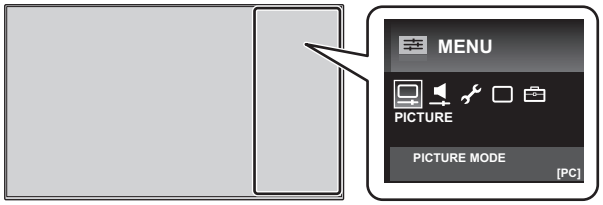
! Caution

- Do not turn the main power switch off while the menu items are being displayed. Doing so may initialize the settings.

■Example of operation

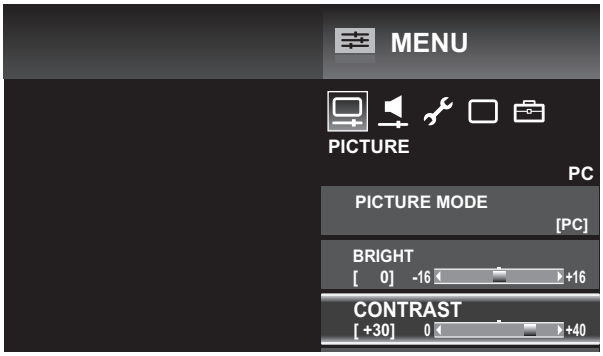
(Adjusting CONTRAST in the PICTURE menu)

1. Press MENU to display the menu screen.

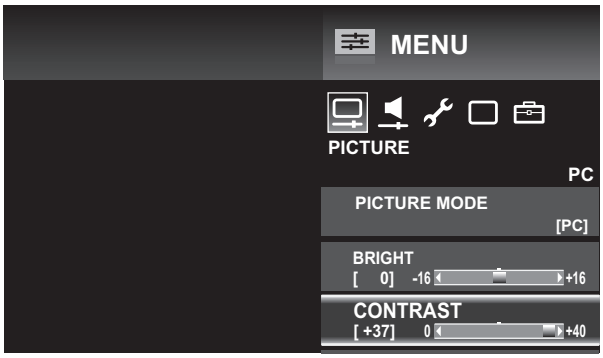


2. Press ◄ or ► to select PICTURE, and press ENTER.

3. Press ▲ or ▼ to select CONTRAST.



4. Press ◄ or ► to adjust the setting.

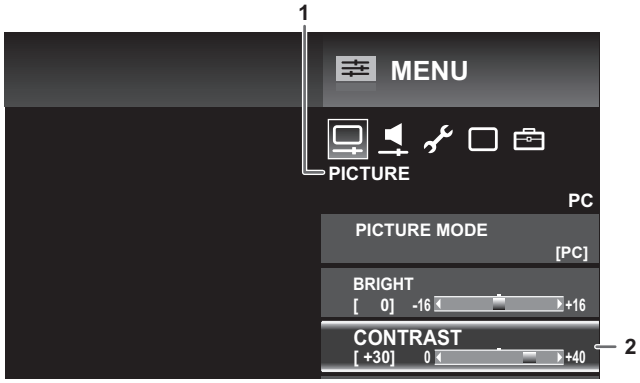


5. Press MENU to close the menu screen.

TIPS

- The menu will differ depending on the input mode.

■Menu screen display



1 Name of the menu
2 An item being selected (highlighted)

Menu item details

The menu will differ depending on the input mode and the items that can be set vary depending on the mode.

■PICTURE

PICTURE MODE

Changes the picture mode on the screen. The picture mode on the screen can also be changed using a remote control unit. (See page 18.)

BRIGHT

Adjusts the backlight brightness.

CONTRAST

Adjusts the difference between the bright and dark portions of the image.

BLACK LEVEL

Adjusts the entire brightness of the video signals.

TINT

Adjusts the hue. Selecting + changes the color towards green, and selecting - changes it towards magenta.

COLORS

Adjusts the color intensity.

SHARPNESS

Adjusts the sharpness of the image.

COLOR ADJUSTMENT

C.M.S.-HUE

Adjusts color tone with 6 colors of R (red), Y (yellow), G (green), C (cyan), B (blue), and M (magenta).

C.M.S.-SATURATION

Adjusts color vividness with 6 colors of R (red), Y (yellow), G (green), C (cyan), B (blue), and M (magenta).

C.M.S.-VALUE

Adjusts color brightness with 6 colors of R (red), Y (yellow), G (green), C (cyan), B (blue), and M (magenta).

WHITE BALANCE

Adjusts from a bluish white (color temperature: 12000K) to a reddish white (color temperature: 3000K). You can also change the R gain, G gain, and B gain values for each color temperature to perform fine adjustment of the white balance.

GAMMA ADJUSTMENT

Adjusts the gradation difference between bright parts and dark parts of video.

ADVANCED

QUICK SHOOT

ADVANCED(HIGH), ADVANCED(LOW)..... Using interpolation, this shows video that is normally shown at 60 frames/sec at 120 frames/sec for a smoother picture. However, this may distort the picture of some videos. In this case, set to STANDARD or OFF.

STANDARD..... This makes scenes with fast action clearer and easier to view.

ACTIVE CONTRAST

Automatically adjusts the contrast according to the image.
The adjustment operation may not be smooth depending on the image. In this case select OFF.

RESOLUTION

Adjusts the fineness of the image.

MULTI PIXEL DRIVE

Adjusts the gradation to widen the angle of view.

PIXEL DIMMING

Adjusts the contrast of the video.

FILM MODE

Adjusts so the input signal is video at 24 frames per second.
ADVANCED(HIGH), ADVANCED(LOW).... Play at high-quality for smooth video movement.
STANDARD..... Play video with each frame shown an equal amount of time.

DIGITAL NR

Reduces block noise caused by digital compression.

MONOCHROME

Sets the video to black & white.

RESET

Resets the values of current picture mode items in PICTURE menu to the factory preset values.

■AUDIO

TREBLE

Adjusts the volume of treble-level sound.

BASS

Adjusts the volume of bass-level sound.

BALANCE

Adjusts the balance of the audio sound between right and left.

BAND EXTENSION

Adjusts so that low range and extended range audio from the speakers can be easily heard.

RESET

Resets the values of the AUDIO menu items to the factory preset values.

■SETUP

LANGUAGE

Sets the display language for the menu screen.

SLEEP TIMER

When the set time elapses, the monitor automatically enters standby mode. This can be set to up to 23 hours in increments of one hour.

INPUT SELECT

HDMI SETTING

HDMI CEC LINK .....When AUTO is selected, HDMI CEC LINK is enabled and the HDMI input terminal changes when playback is started on an external device. When OFF is selected, AUTO POWER ON and AUDIO RETURN CHANNEL cannot be selected.

AUTO POWER ON .....Sets whether the monitor power turns on when the power of an external device is turned on.

AUDIO RETURN CHANNEL.....When HDMI1 input is used, sets whether the monitor audio is output from compatible devices via HDMI cable.

POSITION .....Adjusts the horizontal and vertical position of the image.

HDMI AUTO WIDE

AUTO MODE.....Automatically changes the screen size to ZOOM if a black band appears at the top and bottom of the input video.

HDMI SIGNAL .....Sets to ENABLE to have the screen size change automatically according to the screen size control signal included in the video signal input from the HDMI input terminal.

SCREEN POSITION (D-SUB)

INPUT SIGNAL .....When the input signal is 1024 x 768 or 1366 x 768 in PC D-sub, select to match the resolution.

AUTO SYNC. .....When YES is selected, H-POS., V-POS., CLOCK, and PHASE are automatically adjusted. Use this automatic adjustment when you use the PC D-Sub to display a PC screen or when you change the setting of the PC. (See page 29.)

SCREEN POSITION.....Adjusts H-POS. (Position of the longest direction), V-POS. (Position of the shortest direction), CLOCK, and PHASE. To restore the factory default settings, use RESET.

INPUT SKIP

AUTO .....Skips when the terminal is not connected.

ON.....Always skips.

OFF .....Always enable selection of the input.

Settings in INPUT SKIP are displayed in the input mode selection screen. (SELECTABLE/NOT SELECTABLE)

INPUT LABEL

Changes the display names of input mode.

To enter characters, see page 29.

AUDIO SELECT (HDMI3/D-SUB)

Sets the audio input terminal used when HDMI3 or PC D-sub is input.

HDMI3

HDMI .....Inputs audio from the HDMI3 input terminal.

HDMI + ANALOG .....Inputs audio from the audio input terminal.

D-SUB

VIDEO .....Do not use audio.

VIDEO + AUDIO .....Inputs audio from the audio input terminal.

DIGITAL AUDIO OUTPUT

Sets the audio that is output from the digital audio output (optical) terminal.

When connecting a device that does not support AAC / Dolby Digital to the digital audio output (optical) terminal, set to PCM.

When connecting an AV amplifier or other device that supports AAC / Dolby Digital, set to BIT STREAM.

COMMUNICATION SETTING

LAN SETUP

Configures the settings to control the monitor from the computer via LAN. (See page 36.)

IP CONTROL SETUP

To control the monitor from a computer via LAN, set this to ENABLE and configure the login ID and other settings. (See page 37.)

■MONITOR

MONITOR

Selects the installation direction of the monitor.
LANDSCAPE.....Landscape orientation
PORTRAIT .....Portrait orientation. MULTIMEDIA (see page 20) always remains in landscape orientation.
* If video is upside down when the monitor is installed in the portrait orientation, you can rotate the video 180 degrees with PORTRAIT ROTATE (see page 30) in the FUNCTION menu. When this is done, the MONITOR setting cannot be changed.

STANDBY MODE

When STANDARD is selected, startup time from standby mode is reduced. Note, however that, more power will be consumed in standby mode.
When LOW POWER is selected, current consumption is reduced while the monitor is in standby mode. Note, however, that the startup time from standby mode becomes longer.
If set to LOW POWER, control via LAN cannot be performed in standby mode.

OFF IF NO OPERATION

Determines whether or not to set the monitor to go into standby mode when there is no operation from the remote control unit, control commands, or LAN for over 4 hours.

OFF IF NO SIGNAL

Sets whether or not the monitor enters the power standby state when there is no input signal for more than 5 minutes.

■OTHERS

MULTIMEDIA AUTOPLAY

Sets the media used for auto play. (See page 22.)

SOFTWARE VERSION

Shows the software version, etc.

SOFTWARE UPDATE

You can update the software.

SETTING RESET

Resets the settings to the factory default settings.
* Photo files copied to INTERNAL MEMORY with MULTIMEDIA will not be erased.

Character input

For items that require entry of text, press ENTER to display the software keyboard.

Select a character with ▲ ▼ ◄ ►, and press ENTER to enter.

- To change the characters entered, select CHAR. SET or press DISPLAY (F1).
- To switch between upper case and lower case, select CAPS and press ENTER.
- To delete characters, select CLEAR or DELETE and press ENTER. You can also perform DELETE by pressing MODE (F2).
- When you are done entering characters, select DONE and press ENTER.
  You can also finish by pressing SIZE (F3).
  To cancel character entry, select CANCEL and press ENTER.

Adjustments for PC screen display

■Automatic adjustment

When you use the PC D-sub to display a PC screen, or when you change the setting of the PC, use the automatic screen adjustment.

1. **Switch the input to D-SUB and display the adjustment pattern.** (See the description below.)
2. **Press MENU and select AUTO SYNC. of SCREEN POSITION of INPUT SELECT in the SETUP menu. (See page 27.)**
3. **Press ENTER and select YES.**
4. **Press ENTER.**
   Wait until automatic adjustment finishes.
5. **Press MENU to close the menu screen.**

TIPS

- If the screen cannot be adjusted properly with one automatic adjustment, repeat the automatic adjustment two or three times. Try manual adjustment if necessary.
- When the input signal is 1024 x 768 or 1366 x 768, the input resolution must be set manually. Select the resolution with INPUT SIGNAL in SCREEN POSITION of INPUT SELECT in the SETUP menu. (See page 27.)

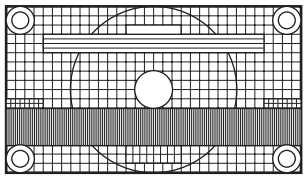
■Screen display for adjustment

Before making adjustments in the SCREEN POSITION menu or PICTURE menu, display an image to brighten the entire screen. If you are using a Windows PC, use the adjustment pattern on the supplied CD-ROM.

Opening the adjustment pattern

The following example is performed in Windows 7.

1. **Load the supplied CD-ROM into the computer's CD-ROM drive.**
2. **Open [CD Drive] in [Computer].**
3. **Double-click [Adj_uty.exe].**
   The adjustment pattern will appear.
   Adjust the screen automatically or manually.



4. **When adjustment is finished, press the [Esc] on the computer's keyboard to quit the adjustment program.**
5. **Eject the CD-ROM from the CD-ROM drive.**

TIPS

- If the display mode on the computer you are using is 65,000 colors, the color levels in the color pattern may appear differently or grayscale may appear to be colored. (This is due to the specifications of the input signal and is not a malfunction.)

Functional Restriction Setting (FUNCTION)

You can restrict operations.

1. **Hold SIZE down until "F" appears in the left of the screen.**
2. **While "F" appears, press ▲, ►, ▼, ◄ in that order.**

FUNCTION	
POWER BUTTON LOCK	[OFF]
RC LOCK	[OFF]
MONITOR LOCK	[OFF]
MENU LOCK	[OFF]
ON SCREEN DISPLAY	[ON 1]
LED	[ON]
PORTRAIT ROTATE	[OFF]
▲▼ SELECT ENTER ENTER RETURN EXIT	

3. **Select and set the items.**

POWER BUTTON LOCK

You can disable the remote control POWER button or the monitor POWER switch.

OFF ..... Enables operation.
ALL LOCK ..... Disables the power buttons on the monitor and remote control unit.
MONITOR LOCK... Disables the power switch on the monitor.
RC LOCK..... Disables the power button on the remote control unit.

RC LOCK

You can disable the remote control buttons other than power button.

MONITOR LOCK

You can disable the monitor switches other than power switch.

MENU LOCK

You can disable use of the remote control with MENU.

ON SCREEN DISPLAY

Shows/hides the menu, modes and messages.
The FUNCTION screen cannot be hidden.

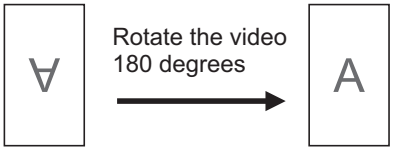
ON 1 ..... Shows all menus, modes and messages.
ON 2 ..... Hides messages automatically displayed by the display. Shows messages during operation.
OFF ..... Hides all menus, modes and messages.

LED

Specifies whether to light the power LED.

PORTRAIT ROTATE

If video is upside down when the monitor is installed in portrait orientation, you can rotate the video 180 degrees. This function is for the portrait installation only. Do not select this function for the landscape installation.
After changing a setting, turn the main power off and then on.



4. **Press RETURN to return to the normal screen.**

Controlling the Monitor with a PC (RS-232C)

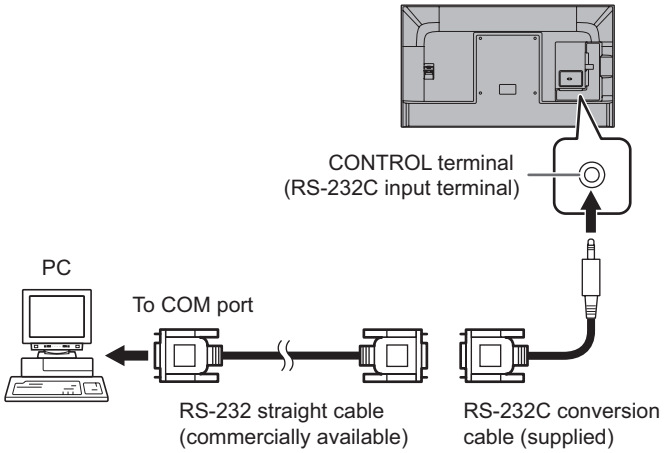
You can control this monitor from a PC via RS-232C (COM port) on the PC.

TIPS

- You cannot use RS-232C and LAN control simultaneously.

PC connection

Connect the COM port on the PC (RS-232C connector) to the CONTROL terminal (RS-232C input terminal) on the monitor using the RS-232C conversion cable (supplied) and an RS-232 straight cable (commercially available).



Communication conditions

Set the RS-232C communication settings on the PC to match the monitor's communication settings as follows:

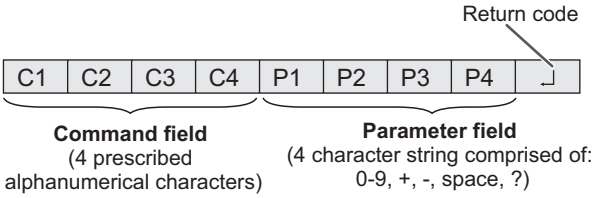
Baud rate	9600 bps
Data length	8 bits
Parity bit	None

Stop bit	1 bit
Flow control	None

Communication procedure

■Command format

When a command is sent from the PC to the monitor, the monitor operates according to the received command and sends a response message to the PC.



Example: VOLM0030
VOLM 30 ␣ ␣

* Be sure to input 4 characters for the parameter. Pad with spaces ("␣") if necessary.
(" ↵ " is a return code (0DH or 0AH))
Wrong : VOLM30↵
Right : VOLM 30 ␣ ␣↵

When inputting a negative value, specify a numerical value in three digits.

Example: BLVL-005

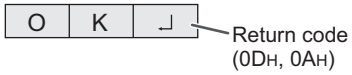
If a command has "R" listed for "DIRECTION" in the "Control command table" on page 33, the current value can be returned by using "?" as the parameter.

Example:

VOLM ? ? ? ?	←	From PC to monitor (How much is current volume setting?).
30	←	From monitor to PC (Current volume setting: 30).

■Response code format

When a command has been executed correctly



A response is returned after a command is executed.

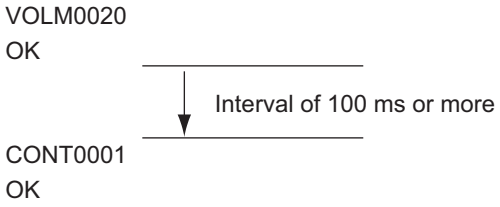
When a command has not been executed

TIPS

- “ERR” is returned when there is no relevant command or when the command cannot be used in the current state of the monitor. “ERR” is also returned when return code only is sent without any command.
- If communication has not been established for reasons such as a bad connection between the PC and monitor, nothing is returned (not even ERR).
- “ERR” may be returned when a command cannot be received correctly due to interference from the surrounding environment.
  Please ensure that the system or software retries the command if this occurs.

■Communication interval

- After OK or ERR is returned, you must send the following commands.
  To set a timeout for the command response, specify 10 seconds or longer.
- Provide an interval of 100 ms or more between the command response and the transmission of the next command.



Control command table

How to read the command table

Command: Command field (See page 31.)
Direction: W When the “Parameter” is set in the parameter field (see page 31), the command functions as described under “Control/Response Contents”.
R The returned value indicated under “Reply” can be obtained by setting “????” or “?␣␣␣” in the parameter field (see page 31).
Parameter: Parameter field (See page 31.)
Reply: Response (Returned value)

TIPS

- In the power standby state, the only command that is used is POWER CONTROL.
- When STANDBY MODE is LOW POWER, control via LAN is not possible in standby mode.

Power control/Input mode selection

Function	Command	Direction	Parameter	Reply	Control/Response contents
POWER CONTROL	POWR	WR	0	0	Switches to standby mode.
			1	1	Returns from standby mode.
INPUT MODE SELECTION	ITGD	W	0		Toggle change for input mode.
	IAVD	WR	1	1	HDMI1
			2	2	HDMI2
			3	3	HDMI3
			4	4	HDMI4
			5	5	D-SUB
			6	6	MULTIMEDIA (USB port/Internal memory)

PICTURE menu

Function	Command	Direction	Parameter	Reply	Control/Response contents
PICTURE MODE	AVMD	W	0		Toggle change for input mode.
			1		AV
			2		MOVIE
			3		GAME
			6		DYNAMIC
			7		PC
			9		sRGB
			11		PHOTO
			20		HIGH RESOLUTION
		R		1	AV
				2	MOVIE
				3	GAME
				6	DYNAMIC
				7	PC
				9	sRGB
				11	PHOTO
				20	HIGH RESOLUTION
BRIGHT	VLMP	WR	-16-16	-16-16	
CONTRAST	CONT	WR	0-40	0-40	
BLACK LEVEL	BLVL	WR	-30-30	-30-30	
TINT	TINT	WR	-30-30	-30-30	
COLORS	COLR	WR	-30-30	-30-30	
SHARPNESS	SHRP	WR	0-20	0-20	

AUDIO menu

Function	Command	Direction	Parameter	Reply	Control/Response contents
BALANCE	SBAL	WR	-30-30	-30-30	Audio output balance (Left 30 to right 30)

SETUP menu

Function		Command	Direction	Parameter	Reply	Control/Response contents
LANGUAGE		LANG	WR	14	14	ENGLISH
				1	1	DEUTSCH
				2	2	FRANÇAIS
				3	3	ITALIANO
				4	4	ESPAÑOL
				5	5	РУССКИЙ
				6	6	日本語
SLEEP TIMER		OFTM	WR	0	0	Cancel
				1-23	1-23	Sets the time in hours before the monitor switches to standby mode.
POSITIONING	POSITION OF THE LONGEST DIRECTION	HPOS	WR	-88-90	-88-90	Varies depending on the signal.
	POSITION OF THE SHORTEST DIRECTION	VPOS	WR	-26-36	-26-36	Varies depending on the signal.
CLOCK		CLCK	WR	-90-90	-90-90	Varies depending on the signal.
PHASE		PHSE	WR	-20-20	-20-20	

MONITOR menu

Function	Command	Direction	Parameter	Reply	Control/Response contents
OFF IF NO OPERATION	NOPO	WR	0-1	0-1	0: OFF, 1: ON
OFF IF NO SIGNAL	NSPO	WR	0-1	0-1	0: OFF, 1: ON

Functional Restriction Setting (FUNCTION) menu

Function	Command	Direction	Parameter	Reply	Control/Response contents
BUTTON CONTROL LOCK	ALCK	WR	0ABC	0ABC	A: POWER BUTTON LOCK 0: OFF, 1: ALL LOCK, 2: MONITOR LOCK, 3: RC LOCK B: RC LOCK 0: OFF, 1: ON C: MONITOR LOCK 0: OFF, 1: ON

Others

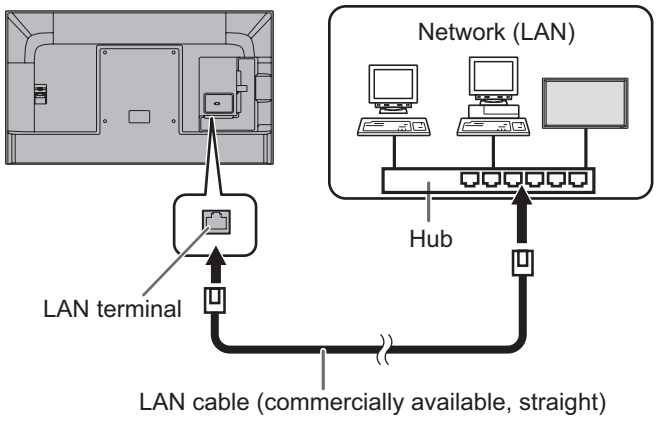
Function		Command	Direction	Parameter	Reply	Control/Response contents
SCREEN SIZE		WIDE	W	0-1, 4-5, 8-9		0:Toggle change, 1: NORMAL, 4: ZOOM, 5: WIDE, 8: UNDERSCAN, 9: DOT BY DOT
			R		1, 4-5, 8-9	1: NORMAL, 4: ZOOM, 5: WIDE, 8: UNDERSCAN, 9: DOT BY DOT
VOLUME		VOLM	WR	0-100	0-100	
Remote control unit		IRCO	W	113		INPUT
				114		VOL +
				115		VOL -
				117		MUTE
				11B		DISPLAY / F1
				120		Cursor down
				139		MODE / F2
				152		ENTER
				157		Cursor up
				1C4		MENU
				1D5		SIZE / F3
				1D7		Cursor left
				1D8		Cursor right
				1E4		RETURN
MUTE		MUTE	W	0-2		0:Toggle change, 1: ON, 2: OFF
			R		1-2	1: ON, 2: OFF
INFORMATION	MODEL	MNRD	W	1	Value	

TIPS

- Some menu setting items do not have a command. Set with the remote control during installation.

Controlling the Monitor with a PC (LAN)

Your monitor can be connected to a LAN allowing you to control it from a PC on the LAN.
The connection requires a commercially available LAN cable (UTP cable, Category 5, straight through).



TIPS

- You must assign an IP address to the monitor by following the procedures in “Settings to connect to a LAN”. (See the description on the right.)
- To control the monitor via LAN, set IP CONTROL SETUP to ENABLE. (See page 37.)
- You cannot use RS-232C and LAN control simultaneously.
- When STANDBY MODE is LOW POWER, control is not possible in the power standby state.

Settings to connect to a LAN

Set LAN SETUP and IP CONTROL SETUP in COMMUNICATION SETTING in the SETUP menu. (See page 28.)
The settings depend on the configuration of your LAN. Ask your LAN administrator for details.

■LAN SETUP

1. **Display the current LAN information.**
2. **If you need to change the setup, select CHANGE or INITIALIZE with ◄ or ►, and press ENTER.**
   CHANGE: Change the LAN setup. See the step 3.
   INITIALIZE: Reset the current settings.
3. **Set the IP address.**
   Select YES or NO with ◄ or ►, and press ENTER.

   YES

   Acquire the IP address automatically.

   NO

   Enter the IP ADDRESS, NETMASK, and GATEWAY with the software keyboard. (See page 29.)
   When NO is selected, YES (auto acquisition of DNS IP address) cannot be selected in step 5.
4. **Select NEXT, and press ENTER.**
5. **Set the IP address of the DNS server.**
   Select YES or NO with ◄ or ►, and press ENTER.

   YES

   Acquire the IP address of the DNS automatically. (Use the DHCP server function of your network environment.)

   NO

   Enter the PRIMARY and SECONDARY IP addresses with the software keyboard. (See page 29.) For the values to be entered in each field, check the specifications of your network environment.
6. **Select NEXT, and press ENTER.**
7. **Select TEST with ◄ or ►, and press ENTER.**
8. **Check your settings, select COMPLETE with ◄ or ►, and press ENTER.**

■IP CONTROL SETUP

1. **Set IP control to ENABLE.**
   Select IP CONTROL SETUP with ▲ or ▼ and press ENTER. Select CHANGE and press ENTER. Select ENABLE with ◄ or ► and press ENTER.
2. **Configure advanced security settings.**
   Select DETAIL SETTING with ▲ or ▼ and press ENTER.
   Select CHANGE with ◄ or ► and press ENTER.
3. **Set the login information.**
   Enter the LOGIN ID and PASSWORD with the software keyboard (see page 29).
4. **Select NEXT and press ENTER.**
5. **Set the control port.**
   Enter the CONTROL PORT with the software keyboard (see page 29).
6. **Select NEXT and press ENTER.**
7. **Check your settings, select COMPLETE with ◄ or ►, and press ENTER.**

Command-based control

You can control the monitor using control commands (see page 33) via terminal software and other appropriate applications.
Read the manual for the terminal software for detailed instructions.

(1) Connect the PC to the monitor.
Use a commercially available LAN cable to connect a PC to the monitor. (See page 36.)

(2) Send commands to control the monitor.

- The commands used are the same as those for RS-232C. Refer to the communication procedure (see page 31) for operation.
- Usable commands are provided in the control command table (see page 33).

Troubleshooting

If you are experiencing any problem with your display, before calling for service, please review the following troubleshooting tips.

There is no picture or sound.
- Is the power cord disconnected? (See page 14.)
- Is the main power switch off? (See page 17.)
- Is the monitor in standby mode (the power LED illuminating in orange)? (See page 17.)
- Make sure correct input mode is selected. (See page 18.)
- If any external equipment is connected, make sure the equipment is operating (playing back).

Remote control does not work.
- Are the batteries inserted with polarity (+,-) aligned? (See page 16.)
- Are the batteries exhausted?
- Point the remote control unit toward the monitor's remote control sensor. (See page 16.)
- Is ON SCREEN DISPLAY set to OFF or is operation disabled? (See page 30.)

Sound is heard from only one side.
- Are audio cables connected properly?
- Check the setting of BALANCE for AUDIO menu. (See page 26.)

There is a picture but no sound.
- Is the sound muted?
- Make sure the volume is not set to minimum.
- Are audio cables connected properly?
- Is the setting of INPUT SELECT on the SETUP menu correct? (See page 27.)

Unstable video.
- The signal may be incompatible. (See page 41.)
- Try the automatic screen adjustment when the D-SUB are used. (See page 29.)

The video from the HDMI input terminal does not appear properly.
- Is the setting for HDMI SETTING of INPUT SELECT on the SETUP menu correct? (See page 27.)
- Is the HDMI cable HDMI standard compliant? The monitor will not work with cables that are not standard compliant.
- Is the input signal compatible with this monitor? (See page 41.)
- To show 4K2K video or 1080p video, use a high-speed HDMI cable.
- If connected to a HDMI1 - 3 input terminal, connect to the HDMI4 input terminal. The video and audio of some connected devices may not output correctly because the HDMI1 - 3 input terminals support 3840 x 2160 (60Hz) 4:4:4 format. If input in this format is not necessary, use the HDMI4 input terminal. (See page 12.)

The video from PC D-Sub input terminal does not appear correctly.
- Is the setting for SCREEN POSITION of INPUT SELECT on the SETUP menu correct? (See page 27.)
- Is the input signal compatible with this monitor? (See page 41.)

Control buttons do not work.
There is no picture.
- Load noises from outside may be interfering with normal operation. Turn off the power and turn it on after waiting at least 5 seconds, and then check the operation.

Power LED flashes red.
- Hardware has a problem. Turn off the monitor and request repair from your SHARP dealer.

The monitor makes a cracking sound.
- You may occasionally hear a cracking sound from the monitor. This happens when the cabinet slightly expands and contracts according to change in temperature. This does not affect the monitor's performance.

The Power LED is flashing in red and green alternately.
- When the internal temperature of the monitor rises excessively, the brightness of the backlight decreases automatically in order to prevent high-temperature-related problems. If the internal temperature rises further, the monitor automatically enters standby mode and the Power LED blinks red and green alternately.
- Remove the cause of the excessive temperature rise.
  - If the monitor enters standby mode due to a rise in temperature, to return to normal display, turn the power switch off and then back on again. The monitor, however, will enter standby mode again if the cause of the temperature rise is not eliminated. (See page 8.)
  - Check whether the monitor is placed at a location where a quick rise in temperature is likely. Internal temperature rises quickly if the vents on the monitor are blocked.
  - Internal temperature rises quickly if dust accumulates inside the monitor or around the vents. Remove dust if possible. Ask SHARP dealer about removing internal dust.

Specifications

■Product Specifications

Model		PN-H701
LCD component		70" Class [69-1/2 inch (176.6cm) diagonal] TFT LCD
Max. resolution (pixels)		3840 x 2160
Max. colors		Approx. 16.77 million colors
Pixel pitch		0.401 mm (H) × 0.401 mm (V)
Viewing angle		176° right/left/up/down (contrast ratio ≥ 10)
Screen active area inch (mm)		60-9/16 x 34-1/16 (1538.9 x 865.6)
Computer input signal		HDMI, Analog RGB (0.7 Vp-p) [75 Ω]
Sync signal		Horizontal/vertical separate (TTL: positive/negative)
Plug and play		VESA DDC2B
Input terminals	Video	HDMI x 4 - HDCP1.4 compatible (HDMI1 - HDMI3) HDCP2.2 compatible (HDMI4) - ARC compatible (HDMI1) - MHL compatible (HDMI4) Mini D-sub 15 pin, 3 rows x 1
	Audio	3.5 mm mini stereo jack x 1
	Serial (RS-232C)	3.5 mm mini stereo jack x 1
	USB flash drive	x 1
Output terminals	Audio	Digital audio output (optical) x 1 3.5 mm mini stereo jack x 1
LAN terminal		10 BASE-T/100 BASE-TX
Speaker output		10 W + 10 W
Internal memory		400 MB
Power requirement		AC 100 - 240 V, 3.2 A, 50/60 Hz
Operating temperature *1		32°F to 104°F (0°C to 40°C)
Operating humidity		20% to 80% (no condensation)
Power consumption (Standby mode *2)		270 W (0.5 W)
Dimensions (excluding protrusions) inch (mm)		Approx. 61-3/8 (W) x 2-11/16 (D) x 35-3/16 (H) (1559 x 69 x 894)
Weight lbs. (kg)		Approx. 83.8 (38)

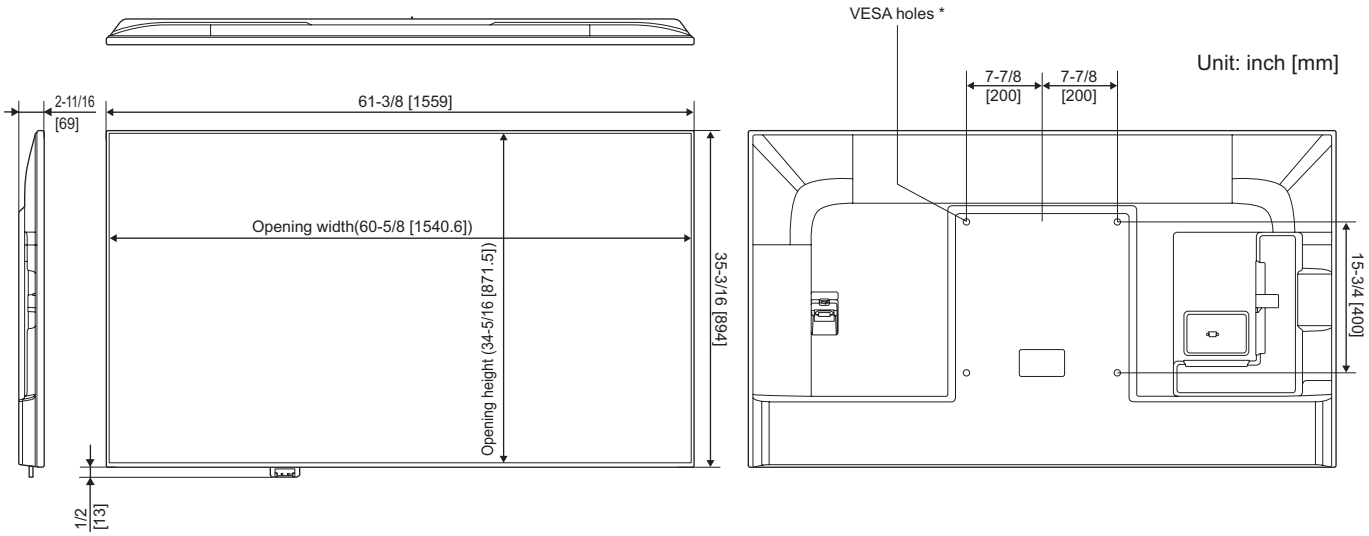
*1 Temperature condition may change when using the monitor together with the optional equipments recommended by SHARP. In such cases, please check the temperature condition specified by the optional equipments.

*2 When STANDBY MODE is set to LOW POWER.

As a part of our policy of continuous improvement, SHARP reserves the right to make design and specification changes for product improvement without prior notice. The performance specification figures indicated are nominal values of production units. There may be some deviations from these values in individual units.

■Dimensional Drawings

Note that the values shown are approximate values.



When mounting the monitor, be sure to use a wall-mount bracket that complies with the VESA-compatible mounting method. SHARP recommends using M6 screws and tighten the screws.
Note that screw hole depth of the monitor is 3/8 inch (10 mm). Loose mounting may cause the product to fall, resulting in serious personal injuries as well as damage to the product. The screw and hole should come together with over 5/16 inch (8 mm) length of thread. Use a bracket which has been approved for UL1678 standard, and which can endure at least 4 times or more the weight of the monitor.

■DDC (plug and play)

The monitor supports the VESA DDC (Display Data Channel) standard.
DDC is a signal standard for plug and play between monitors and computers. Information about resolution and other parameters is exchanged between the two. This function can be used if the computer supports DDC and it has been configured to detect plug-and-play monitors.
There are several types of DDC, depending on the communication method used. This monitor supports DDC2B.

■Compatible signal timing (PC)

Screen resolution		Hsync	Vsync	Dot frequency	Digital (HDMI)	Analog (PC D-Sub)
VESA	640 × 480	31.5kHz	60Hz	25.175MHz	Yes	Yes
		37.9kHz	72Hz	31.5MHz	Yes	Yes
		37.5kHz	75Hz	31.5MHz	Yes	Yes
	800 × 600	35.1kHz	56Hz	36.0MHz	Yes	Yes
		37.9kHz	60Hz	40.0MHz	Yes	Yes
		48.1kHz	72Hz	50.0MHz	Yes	Yes
		46.9kHz	75Hz	49.5MHz	Yes	Yes
	1024 × 768	48.4kHz	60Hz	65.0MHz	Yes	Yes
		56.5kHz	70Hz	75.0MHz	Yes	Yes
		60.0kHz	75Hz	78.75MHz	Yes	Yes
	1280 × 800	49.7kHz	60Hz	83.5MHz	Yes	Yes
	1280 × 1024	64.0kHz	60Hz	108.0MHz	Yes	Yes
	1400 × 1050	65.3kHz	60Hz	121.75MHz	Yes	Yes
Wide	1366 × 768	47.7kHz	60Hz	85.5MHz	Yes	Yes
	1920 × 1080	67.5kHz	60Hz	148.5MHz	Yes	Yes
	3840 × 2160	54.0kHz	24Hz	297.0MHz	Yes	-
		56.3kHz	25Hz	297.0MHz	Yes	-
		67.5kHz	30Hz	297.0MHz	Yes	-
		112.5kHz	50Hz	594.0MHz	Yes	-
		135.0kHz	60Hz	594.0MHz	Yes	-
US TEXT	720 × 400	31.5kHz	70Hz	28.3MHz	Yes	Yes
Mac	1920 × 1080	67.5kHz	60Hz	148.5MHz	Yes	Yes
	3840 × 2160	67.5kHz	30Hz	297.0MHz	Yes	-

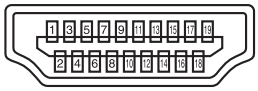
- Depending on the connected PC, images may not be displayed properly even if the compatible signal described above is input.

■Compatible signal timing (AV)

Screen resolution	Frequency	HDMI	PC D-sub
3840 × 2160p	24Hz	Yes	-
	25Hz	Yes	-
	30Hz	Yes	-
	50Hz	Yes	-
	60Hz	Yes	-
1920 × 1080p	24Hz	Yes	-
	30Hz	Yes	-
	50Hz	Yes	-
	60Hz	Yes	-
1920 × 1080i	60Hz	Yes	-
1280 × 720p	30Hz	Yes	-
	50Hz	Yes	-
	60Hz	Yes	-
720 × 576p	50Hz	Yes	-
640 × 480p	60Hz	Yes	-
720 × 480p	60Hz	Yes	-
720(1440) × 480i	60Hz	Yes	-

■HDMI input terminal pins

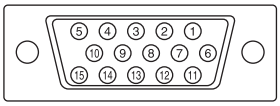
(HDMI™ Connector)



No.	Function	No.	Function
1	TMDS data 2+	11	TMDS clock shield
2	TMDS data 2 shield	12	TMDS clock-
3	TMDS data 2-	13	CEC
4	TMDS data 1+	14	N.C.
5	TMDS data 1 shield	15	SCL
6	TMDS data 1-	16	SDA
7	TMDS data 0+	17	DDC/CEC GND
8	TMDS data 0 shield	18	+5V
9	TMDS data 0-	19	Hot-plug detection
10	TMDS clock+		

■PC D-sub input terminal pins

(Mini D-sub 15 pin)



No.	Function	No.	Function
1	Red video signal input	9	+5V
2	Green video signal input	10	GND
3	Blue video signal input	11	N.C.
4	N.C.	12	DDC data
5	GND	13	Hsync signal input
6	GND for red video signal	14	Vsync signal input
7	GND for green video signal	15	DDC clock
8	GND for blue video signal		

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libFLAC
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iputils
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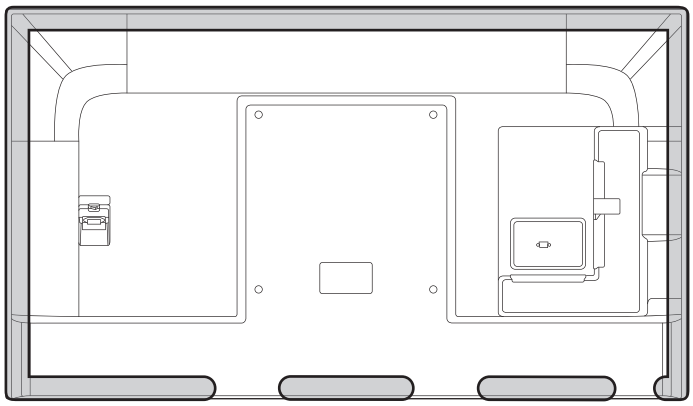
Mounting Precautions (For SHARP dealers and service engineers)

- When installing, removing or moving the monitor, ensure that this is carried out by at least 2 people.
- Be sure to use a wall-mount bracket designed or designated for mounting the monitor.
- This monitor is designed to be installed on a concrete wall or pillar. Reinforced work might be necessary for some materials such as plaster / thin plastic board / wood before starting installation.
- This monitor and bracket must be installed on a wall which can endure at least 4 times or more the weight of the monitor. Install by the most suitable method for the material and the structure.
- To attach a VESA-compliant mounting bracket, use M6 screws that are 5/16 inch (8 mm) to 3/8 inch (10 mm) longer than the thickness of the mounting bracket.
- Do not use an impact driver.
- When moving the monitor, be sure to hold the areas shown in the figure below. Do not hold the LCD panel. This may cause product damage, failure, or injury.



- If you need to move the monitor after it has been in use, it may be hot. Turn off the power and make sure it has cooled sufficiently before moving.
- After mounting, please carefully ensure the monitor is secure, and not able to come loose from the wall or mount.
- Do not use any screw holes other than VESA holes for installation.

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