MITSUBISHI ELECTRIC

# 65" LCD Display Monitor

# LDT651L ( MV812 )

## OPERATION MANUAL

HDMI™

HIGH-DEFINITION MULTIMEDIA INTERFACE

# Important Information

**Canadian Department of Communications Compliance Statement**

DOC: This Class A digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

C-UL: Bears the C-UL Mark and is in compliance with Canadian Safety Regulations according to CAN/CSA C22.2 No. 60950-1.

**FCC Information**

1. Use the attached specified cables with the LDT651L (MV812) color monitor so as not to interfere with radio and television reception.
   (1) Please use the supplied power cord or equivalent to ensure FCC compliance.
2. This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.
   These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
3. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

**Warning**

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



- This product comes with RICOH Bitmap Fonts produced and sold by RICOH COMPANY, LTD.
- 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.

# IMPORTANT INFORMATION

**FOR CUSTOMERS IN U.K.**

**IMPORTANT**

The wires in this mains lead are coloured in accordance with the following code:

| | |
|---|---|
| **GREEN-AND-YELLOW :** | **Earth** |
| **BLUE :** | **Neutral** |
| **BROWN :** | **Live** |

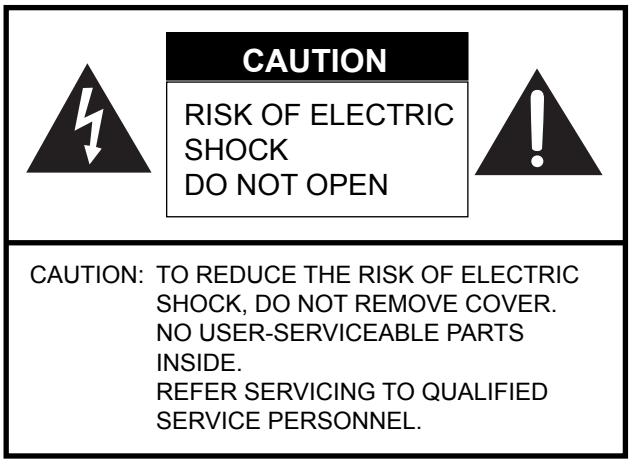
As the colours of the wires in the mains lead of this apparatus may not correspond with the coloured markings identifying the terminals in your plug proceed as follows:

- The wire which is coloured GREEN-AND-YELLOW must be connected to the terminal in the plug which is marked by the letter **E** or by the safety earth ⏚ or coloured green or green-and-yellow.
- The wire which is coloured BLUE must be connected to the terminal which is marked with the letter **N** or coloured black.
- The wire which is coloured BROWN must be connected to the terminal which is marked with the letter **L** or coloured red.

Ensure that your equipment is connected correctly. If you are in any doubt consult a qualified electrician.

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

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




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

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

**CAUTION:** The AC outlet shall be installed near the equipment and shall be easily accessible.

# IMPORTANT INFORMATION (Continued)

- When operating the LCD monitor with an AC 100-120V power supply in North America, use a power supply cord provided with this monitor.
- When operating the LCD monitor with an AC 220-240V power supply in Europe, use a power supply cord provided with this monitor.
- In UK, use a BS-approved power cord with molded plug having a black (10A) fuse installed for use with this monitor. If a power cord is not supplied with this monitor, please contact your supplier.
- When operating the LCD monitor with a 220-240V AC power supply in Australia, use the power cord provided with this monitor.
  If a power cord is not supplied with this monitor, please contact your supplier.
- For all othercase, use a power cord that matches the AC voltage of the power outlet and has been approved by and complies with the safety standard of your particular country.

**CAUTION:**
This LCD Monitor uses a lamp that contains mercury. Disposal of the lamp or the LCD Monitor with the lamp may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org. (For US only).

# Declaration

## Declaration of the Manufacturer

We hereby certify that the color monitor LDT651L (MV812)
is in compliance with
Council Directive 2006/95/EC:
– EN 60950-1
Council Directive 2004/108/EC:
– EN 55022
– EN 61000-3-2
– EN 61000-3-3
– EN 55024

and marked with

CE

Mitsubishi Electric Corporation
2-7-3, Marunouchi,
Chiyoda-Ku
Tokyo 100-8310, Japan

To maintain compliance with EMC regulations, use shielded cables to connect to the following terminals: PC/AV output terminal, PC1/AV1 input terminal, PC2/AV2 input terminal, PC3 input terminal, PC4 input terminals, and RS-232C input/output terminals.

## Declaration of the Manufacturer

Note: This symbol mark is for EU countries only.
This symbol mark is according to the directive 2002/96/EC Article 10 Information for users and Annex IV, and/or to the directive 2006/66/EC Article 20 Information for end-users and Annex II.
Your MITSUBISHI ELECTRIC product is designed and manufactured with high quality materials and components which can be recycled and/or reused.
This symbol means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.
If a chemical symbol is printed beneath the symbol shown above, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration. This will be indicated as follows:
Hg: mercury (0,0005%), Cd: cadmium (0,002%), Pb: lead (0,004%)
In the European Union there are separate collection systems for used electrical and electronic products, batteries and accumulators.
Please, dispose of this equipment, batteries and accumulators correctly at your local community waste collection/recycling centre.
Please, help us to conserve the environment we live in!

# DEAR MITSUBISHI CUSTOMER

Thank you for your purchase of a MITSUBISHI 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.

# SAFETY PRECAUTIONS (Continued)

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).
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.

# 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 MITSUBISHI ELECTRIC 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, 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.

### The Power Cord

- 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.
- Use only the power cord supplied with the monitor.
- Insert the power plug directly into the AC outlet. 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.

### Initialization

- This monitor can remember e-mail addresses and other data. Before transferring or disposing of this monitor, initialize all settings by executing ALL RESET 1. (See Operation guide.) Executing ALL RESET 2 will not reset e-mail addresses and similar data.

### Fluorescent Tubes

- The fluorescent tubes in this product have a limited lifetime.
- Because of the property of fluorescent tubes, the screen may flash during the initial period of use. If this happens, please turn off the main power switch of the monitor and turn on again after at least 5 seconds to confirm operation.

# Contents

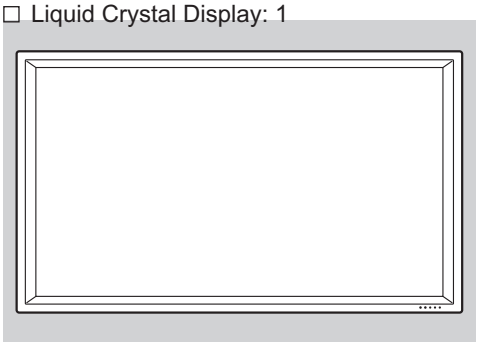


This manual contains instructions regarding connection and installation.
For instructions regarding operation, settings, and similar details, refer to the Operation Guide (LDT651L_guide_English.pdf) in the “manual” folder on the included CD-ROM.
Adobe Reader is required in order to view the Operation Guide.

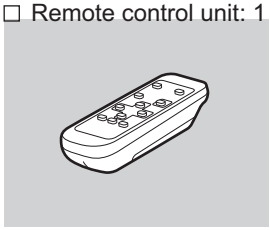
# Supplied Accessories

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

☐ Liquid Crystal Display: 1



☐ Remote control unit: 1

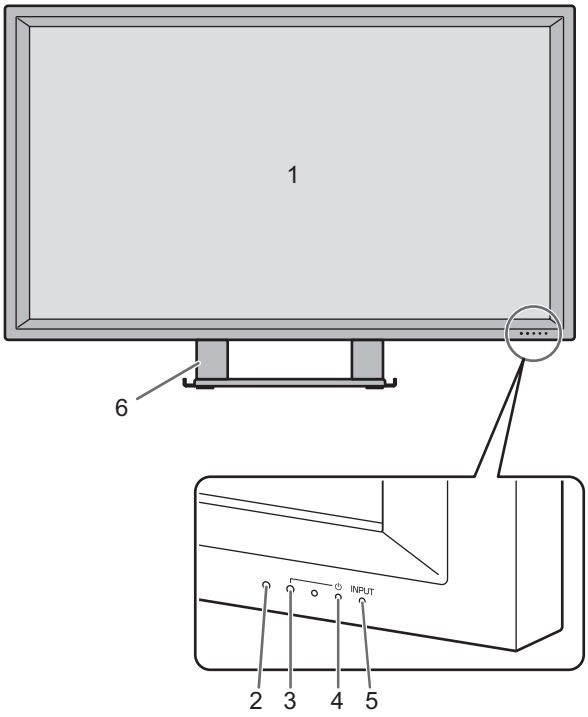


☐ Power cord: 2
☐ R-6 battery (“AA” size): 2
☐ CD-ROM (Utility Disk for Windows): 1
☐ Operation manual: 2
☐ Stand hole protection cover: 2

* MITSUBISHI ELECTRIC 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

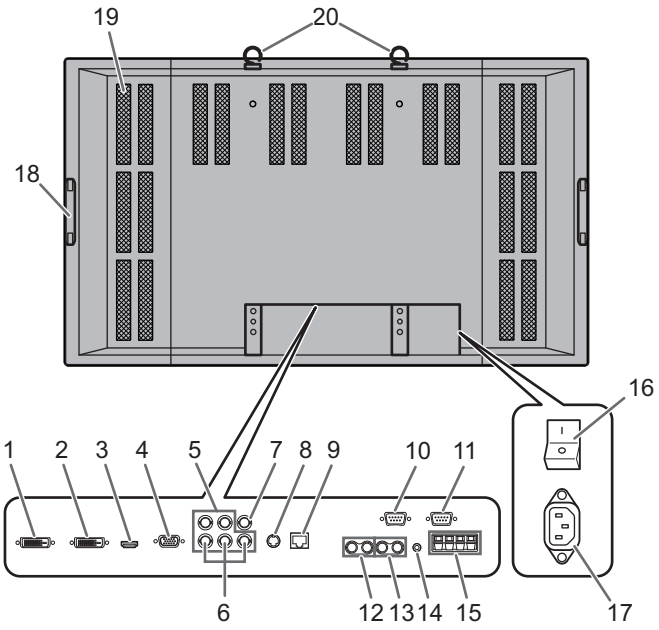



**1. LCD panel**
**2. Remote control sensor** (See page 12.)
**3. Power LED** (See page 14.)
**4. Power switch** (See page 14.)
**5. Input switch** (See Operation guide.)
**6. Temporary Stand** (See page 13.)

TIPS

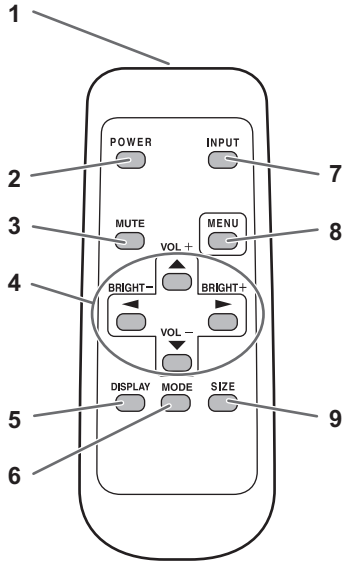
- Use a pointed object such as a pen tip to press the switches at the front of the monitor.

## ■ Rear view




1. **PC/AV output terminal (DVI-D)** (See page 11.)
2. **PC1 input terminal (DVI-D)** (See page 10.)
   **AV1 input terminal (DVI-D)** (See page 10.)
3. **PC2 input terminal (HDMI)** (See page 10.)
   **AV2 input terminal (HDMI)** (See page 10.)
4. **PC3 input terminal (Mini D-sub 15 pin)** (See page 10.)
5. **PC4 input terminals (BNC)** (See page 10.)
6. **AV3 input terminals (BNC)** (See page 10.)
7. **AV5 input terminal (BNC)** (See page 10.)
8. **AV4 input terminal (S)** (See page 10.)
9. **LAN terminal** (See page 11.)
10. **RS-232C output terminal (D-sub 9 pin)** (See page 11.)
11. **RS-232C input terminal (D-sub 9 pin)** (See page 11.)
12. **PC/AV audio output terminals** (See page 11.)
13. **AV audio input terminals** (See page 10.)
14. **PC audio input terminal** (See page 10.)
15. **External speaker terminals** (See page 11.)
16. **Main power switch** (See page 14.)
17. **AC input terminal** (See page 12.)
18. **Handles**
19. **Vents**
20. **Hooks**

## ■ Remote control unit

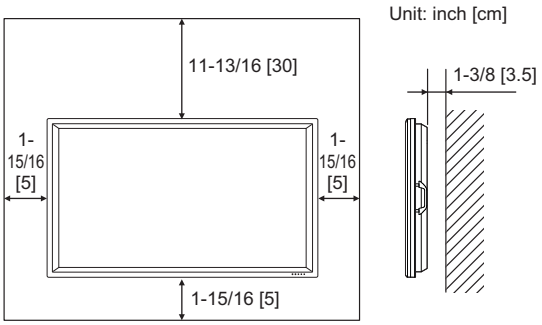



1. **Signal transmitter**
2. **POWER button** (See page 14.)
3. **MUTE button** (See Operation guide.)
4. **VOL +/- buttons** (See Operation guide.)
   **BRIGHT +/- buttons** (See Operation guide.)
   **Cursor control (▲ / ▼ / ◄ / ►) buttons**
5. **DISPLAY button** (See Operation guide.)
6. **MODE button** (See Operation guide.)
7. **INPUT button** (See Operation guide.)
8. **MENU button** (See Operation guide.)
9. **SIZE button** (See Operation guide.)

# How to Install the Monitor

## Mounting precautions

- Since the monitor is heavy, consult your dealer before installing, removing or moving the monitor.
- When installing, removing or moving the monitor, ensure that this is carried out by at least 2 people.
- When moving the monitor, be sure to hold it with the handles both on the rear and the unit bottom. Do not hold the LCD panel. This may cause product damage, failure, or injury.
- Install the monitor with the surface perpendicular to a level surface. If necessary, the monitor may be tilted up to 20 degrees.
- Mounting the monitor on the wall requires special expertise and the work must be performed by an authorized MITSUBISHI 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.
- 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.



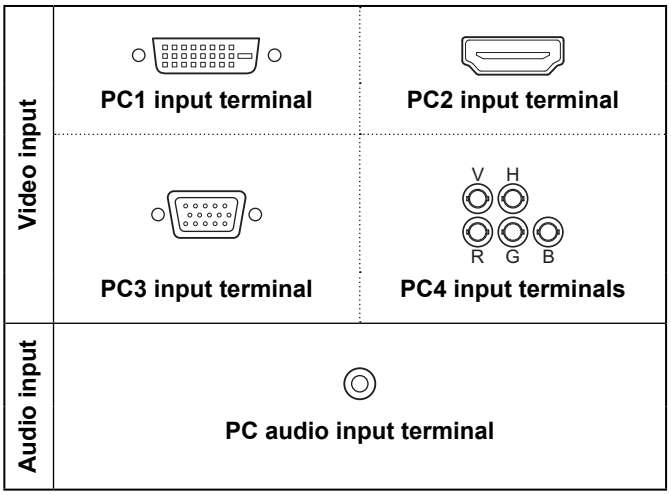

- If it is difficult to provide this much space for any reason such as the installation of the monitor inside a housing, or if the ambient temperature may be outside of the range of 32°F (0°C) to 104°F (40°C), install a fan in the housing or take other measures to keep the ambient temperature within the required range.
- Do not block any ventilation openings. If the temperature inside the monitor rises, this could lead to a malfunction.
- After mounting, it is recommended to take some measures to prevent the monitor from falling down. Secure the monitor by fastening the hooks at the top of the monitor to a wall or a pillar with strong cord and brackets (not included).
- Do not place the monitor on a device which generates heat.
- This monitor is fixed to the temporary stand when shipped from the factory. Please note that this stand is for temporary use only until the monitor is properly mounted.
- Be sure to use a stand or 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.

# 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 mix up the input terminal with the output terminal when connecting cables. Mixing up the input and output terminals may cause malfunctions and the other problems.

## Connection with a PC

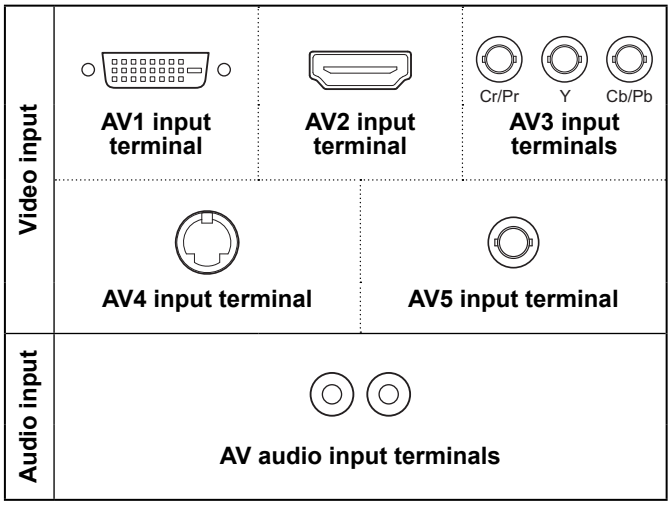



- Use a commercially available signal cable (DVI-D 24 pin) for the PC1 input terminal. Set DVI SELECT of INPUT SELECT on the OPTION menu to PC1 DVI-D when using the PC1 input terminal. (See Operation guide.)
- Use a commercially available HDMI cable (conforming to the HDMI standard) for the PC2 input terminal. Set HDMI SELECT of INPUT SELECT on the OPTION menu to PC2 HDMI when using the PC2 input terminal. In addition, select the audio input terminal to be used in HDMI AUDIO SELECT of INPUT SELECT on the OPTION menu. (See Operation guide.) When DIGITAL is selected, connection to the PC audio input terminal is unnecessary.
- Use a commercially available signal cable (Mini D-sub 15 pin) for the PC3 input terminal.
- Use a commercially available signal cable (BNC) for the PC4 input terminals. Set BNC SELECT of INPUT SELECT on the OPTION menu to PC4 RGB when using the PC4 input terminals. (See Operation guide.)
- Use a commercially available audio cable (mini stereo jack) for the PC audio input terminal. Use an audio cable without resistance.

TIPS

- Images may not be displayed properly depending on the computer (graphics board) to be connected.
- A screen with 1920 x 1080 resolution may not be displayed correctly on PC4. In this case, check the settings of your computer (graphics board) to verify that input signals conform to specifications of this monitor. (See page 17.)
- If there is a check box to disable EDID in display control panel, check it when using PC4.
- Use the automatic screen adjustment when a PC screen is displayed for the first time using PC3 or PC4, or when the setting of the PC is changed. (See Operation guide.) The screen is adjusted automatically when SELF ADJUST in the OPTION menu is set to ON. (See Operation guide.)

## Connection with AV equipment




- Use a commercially available signal cable (DVI-D 24 pin) for the AV1 input terminal. Set DVI SELECT of INPUT SELECT on the OPTION menu to AV1 DVI-D when using the AV1 input terminal. (See Operation guide.)
- Use a commercially available HDMI cable (conforming to the HDMI standard) for the AV2 input terminal. Set HDMI SELECT of INPUT SELECT on the OPTION menu to AV2 HDMI when using the AV2 input terminal. In addition, select the audio input terminal to be used in HDMI AUDIO SELECT of INPUT SELECT on the OPTION menu. (See Operation guide.) When DIGITAL is selected, connection to the AV audio input terminal is unnecessary.
- Use a commercially available component cable (BNC) for the AV3 input terminals. Set BNC SELECT of INPUT SELECT on the OPTION menu to AV3 COMPONENT when using the AV3 input terminals. (See Operation guide.)
- Use a commercially available S-video cable for the AV4 input terminal.
- Use a commercially available video cable (BNC) for the AV5 input terminal.
- Use a commercially available audio cable (RCA) for the AV audio input terminals.
- The AV1/AV2 input terminals are compatible with the video signals below:
  1920 x 1080 p @ 50/59.94/60 Hz
  1920 x 1080 i @ 50/59.94/60 Hz
  1280 x 720 p @ 50/59.94/60 Hz
  720 x 576 p @ 50 Hz
  720 x 480 p @ 59.94/60 Hz
  640 x 480 p @ 59.94/60 Hz
- The AV2 input terminal is also compatible with the video signals below:
  1920 x 1080p @ 24Hz
  720(1440) x 576i @ 50Hz
  720(1440) x 480i @ 59.94/60Hz
- The AV3 input terminals are compatible with the video signals below:
  1080p @50/60Hz, 1080i @50/60Hz, 720p @50/60Hz, 576p @50Hz, 576i @50Hz, 480p @60Hz, 480i @60Hz

## Other terminals

**PC/AV audio output terminals**

- Audio from the equipment connected to the AV audio input terminals or PC audio input terminal is output. Connect to the audio input terminals of the connected equipment using a commercially available audio cable (RCA).
- The audio output varies depending on the input mode selection. (See Operation guide.)
- The volume level can be adjusted using the volume adjustment. (See Operation guide.)
- Selecting FIXED of “AUDIO OUTPUT” from the OPTION menu fixes the volume of sound output from the audio output terminals. (See Operation guide.)
- Audio signals output from the PC/AV audio output terminals cannot be adjusted using the AUDIO menu.

**PC/AV output terminals**

Video signals from PC1 and AV1 can be output to external device. Use this terminal when you connect multiple monitors in a daisy chain via DVI cable (commercially available). (See the description on the right.)
Outputting images encoded with HDCP requires an HDCP-compatible external device.
Images cannot be output in the following situations:
- In PC2/AV2 input mode
- When PIP SOURCE in the PIP/PbyP Menu is set to PC2 HDMI or AV2 HDMI

**RS-232C input/output terminals**

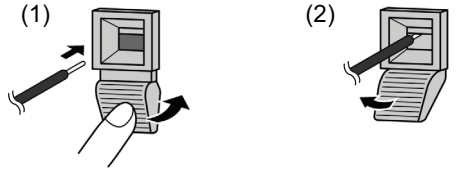
You can control the monitor from a PC by connecting a commercially available RS-232 straight cable between this terminal and the PC. (See Operation guide.)

**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. (See Operation guide.)

## Connecting external speakers

Be sure to use external speakers with an impedance of 6 Ω and a rated input of at least 7 W.




1. While pushing the tab, insert the tip of the cable.
2. Release the tab.

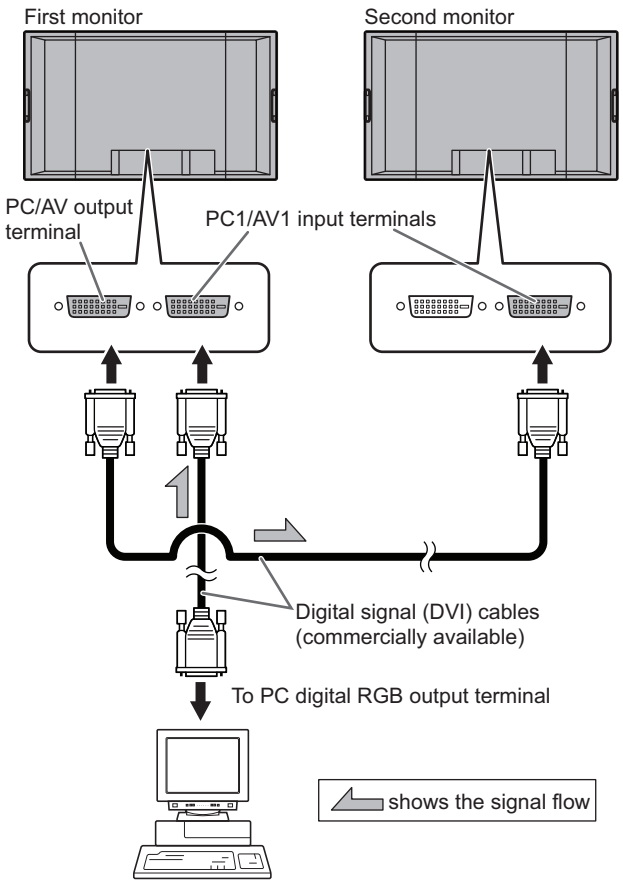
TIPS

- Be sure to connect the + and - terminals and the left and right speakers properly.
- Avoid short circuiting the + and - terminals.

## Connecting multiple monitors

You can connect multiple monitors (up to 5 monitors) in a daisy chain by using the PC1/AV1 input terminals and PC/AV output terminals of this monitor.

**Connection example**




TIPS

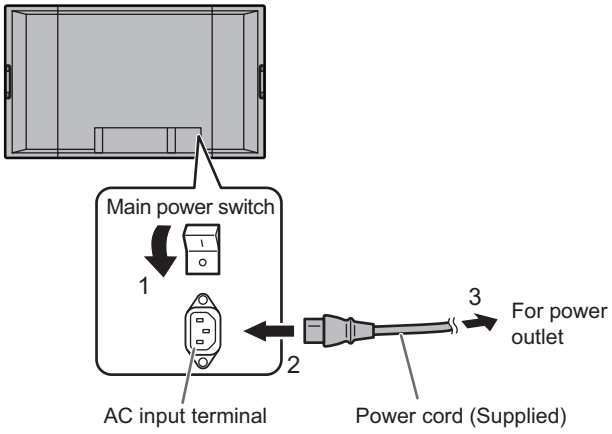
- The length of the signal cables or surrounding environment may affect the image quality.
- The screen may not display properly when using terminals other than PC1/AV1 for the input mode. In this case, turn off the power to all the monitors connected in a daisy chain and then turn the power on again.
- When connecting monitors in a daisy chain set AUTO INPUT CHANGE to OFF.

# Connecting the Power Cord

**!** Caution

- Do not use a power cord other than the one 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.

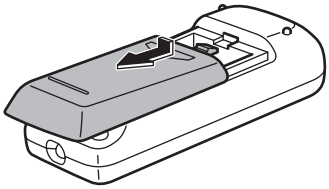



# Preparing the Remote Control Unit

## Installing and removing the remote control batteries

**How to install 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 (R-6 (“AA” size) x 2) with their plus (+) and minus (-) sides oriented correctly.
3. Close the cover.

**How to remove the batteries**

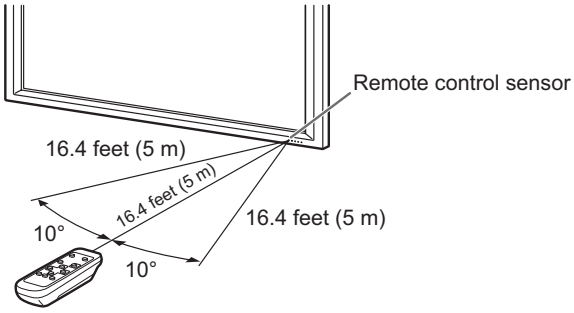
1. Press the cover gently and slide it in the direction of the arrow.
2. Remove the batteries.

TIPS

- The supplied batteries (R-6 (“AA” size) x 2) may become exhausted faster depending on the storage condition. It is recommended that you replace them with new batteries (commercially available) earlier than specified.
- If you will not use the remote control for a long time, remove the batteries.
- Use manganese or alkaline batteries only.

## Remote control operation range

The operation range of the remote control unit is approx. 16.4 feet (5 m) at an angle of approx 10° from the center to the top/bottom/right/left of the remote control sensor.




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.

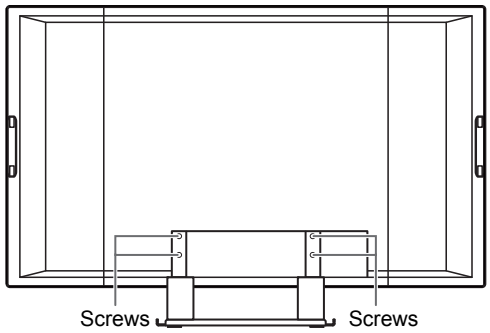
# Removing the Temporary Stand

Prepare wall-hanging brackets or a stand to mount the monitor unit. Read the manual for the brackets or stand for the proper mounting procedure. (The screw holes for mounting brackets (M10 x 4 holes) are provided on the rear of the monitor.)

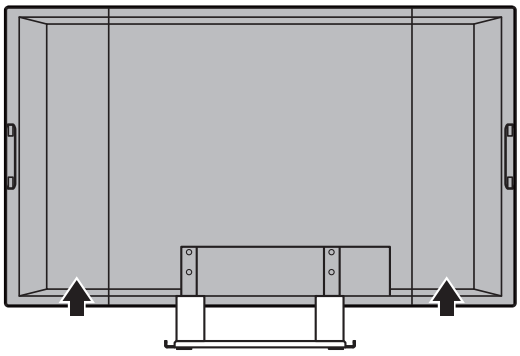
**!** Caution

- The monitor is heavy. Make sure to handle the monitor with at least 2 people.
- This monitor is fixed to the temporary stand when shipped from the factory. Please note that this stand is for temporary use only until the monitor is properly mounted.
- The temporary stand is specifically designed for this monitor. Do not use for other devices.

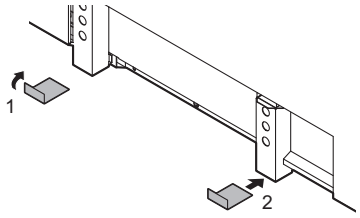
1. Hold the monitor with the handles to prevent it from falling down, and remove the stand fixing screws (4).




2. Lift the monitor by holding it with the handles and the underside of the unit.



3. When the installation is complete, attach the included stand hole protection covers, using the supplied screws.
   (1) Fold the sheet perpendicularly with the adhesive side inward.
   (2) Remove the adhesive cover and attach the sheet to the monitor.

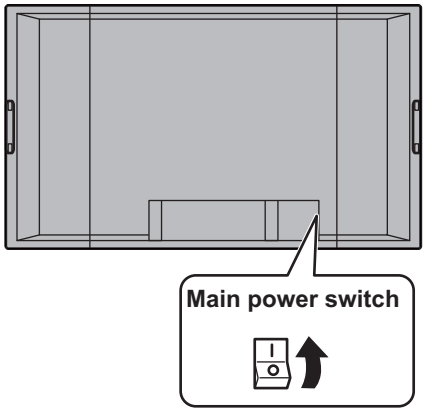


# Turning Power On/Off

**!Caution**

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

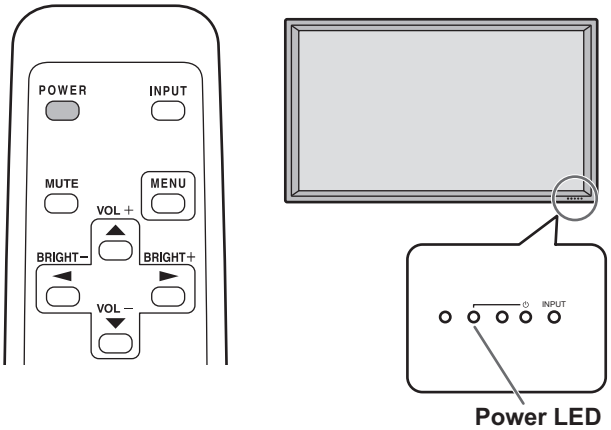
## Turning on the main power




When the main power switch is off, the monitor cannot be turned on using the POWER button on the remote control unit.

## Turning power on/off

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




| Status of a power LED | Status of the monitor |
|---|---|
| Green lighting | Power “On” |
| Orange lighting | Power “Off” (Standby mode) |
| Green flashing | Input signal standby mode (input using a PC) |

**!Caution**

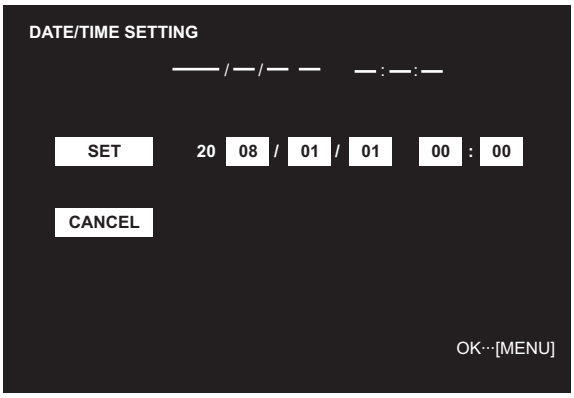
- When switching the main power switch or the POWER button off and back on, always wait for at least 5 seconds. A short interval may result in a malfunction.

TIPS

- If the monitor is in the input signal standby mode and you press the POWER button on the remote control unit, the monitor enters standby mode.
- You can turn on/off the monitor by pressing the power switch of the monitor.
- Setting the SCHEDULE flashes the power LED alternately in red and orange in standby mode.
- When STANDBY MODE is set to STANDARD, startup time can be reduced. Note, however that, more power will be consumed in standby mode.

### ■ Date/time setting

- If the time has yet to be set when the monitor is first turned on, the date/time setting screen appears. Set the date and time.




1. Press ▲, ▼, ◄ or ► to select the date and time, and press ▲ or ▼ to change the numerical values.
2. Select SET and then press MENU.

- Be sure to set the date and time.
- The date/time setting screen will close automatically if no operation is performed for about 15 seconds. The date and time can be set using DATE/TIME SETTING from the OPTION menu when the date/time setting screen disappears.

TIPS

- Set the date in “Year/Month/Day” order.
- Set the time on a 24-hour basis.
- The clock stops after the power-off status continues for approximately 1 week.* The date/time setting screen appears at power-on. Be sure to set the date and time.
  (* This is a guide. The power-off status that stops the clock depends on the status of the monitor.)

## 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 ADJUSTMENT LOCK in FUNCTION menu to “2”. (See Operation guide.)

# Troubleshooting

Before calling for repair services, make sure following checks for possible remedies to the encountered symptoms.

**There is no picture or sound.**
- Is the power cord disconnected? (See page 12.)
- Is the main power switch set to “OFF”? (See page 14.)
- Is the monitor in standby mode (the power LED illuminating in orange)? (See page 14.)
- Make sure correct input mode is selected. (See Operation guide.)
- 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 12.)
- Are the batteries exhausted? (See page 12.)
- Point the remote control unit toward the monitor’s remote control sensor. (See page 12.)
- Is the menu display hidden or is operation disabled? (See Operation guide.)

**Sound from left and right speakers is reversed.**
**Sound is heard from only one side.**
- Are audio cables connected properly? (See pages 10 and 11.)
- Make sure audio cables for external speakers are connected properly: left and right cables may be reversed or one of the two cables may not be connected. (See page 11.)
- Check the setting of BALANCE for AUDIO menu. (See Operation guide.)

**There is a picture but no sound.**
- Is the sound muted?
- Make sure the volume is not set to minimum.
- Is the PC audio cable (commercially available) connected?
- Are audio cables connected properly?
- Is the audio signal input properly to the audio input terminal corresponding to the selected video input terminal?
- When PC2 or AV2 is used, is the setting of HDMI AUDIO SELECT correct? (See Operation guide.)

**Unstable video.**
- The signal may be incompatible.
- Try the automatic screen adjustment when the PC3 input terminal or PC4 input terminals is used.

**PC1 or AV1 does not appear properly.**
- Is the setting of DVI SELECT correct? (See Operation guide.)
- Is the input signal compatible with this monitor? (See pages 10 and 17.)
- Turn off the power to the connected equipment and then turn the power on again.
- If the monitors are connected in a daisy chain, turn off the power to all the monitors connected in a daisy chain and then turn the power on again.

**PC2 or AV2 does not appear properly.**
- Is the setting of HDMI SELECT correct? (See Operation guide.)
- 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 pages 10 and 17.)

**PC4 or AV3 does not appear properly.**
- Is the setting of BNC SELECT correct? (See Operation guide.)
- Is the input signal compatible with this monitor? (See pages 10 and 17.)

**Control buttons do not work.**
**There is no picture.**
- Some kind of load noises from outside might interfere with normal operation. Turn off the power and turn it on after waiting at least 5 seconds, and then check the operation.

**The input mode changes automatically.**
- When the AUTO INPUT CHANGE is ON and no signal is present in a selected input mode, the AUTO INPUT CHANGE automatically changes the selected mode to a mode where a video signal is present.
  The input mode may change in the following cases:
  - When a computer is in standby mode.
  - When video play is stopped with a playback device.

**Power LED flashes red.**
**“STATUS [xxxx]” appears in the corner of the screen.**
- Hardware has a problem. Turn off the monitor and request repair from your MITSUBISHI dealer.
  (When STATUS ALERT is set to OSD & LED. This varies depending on the setting.)

**When “AUTO DIMMING” is displayed.**
- When the internal temperature of the monitor rises excessively, the brightness of the backlight automatically decreases in order to prevent a further temperature rise. If you attempt to use ◄ ► to adjust the brightness while the monitor is in this state, “AUTO DIMMING” is displayed and you cannot change the brightness.
- Remove the cause of the excessive temperature rise.

**The monitor sometimes makes a cracking sound.**
- You may hear 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 “TEMPERATURE” is displayed in the corner of the screen.**
- When the internal temperature of the monitor rises excessively, the brightness of the backlight decreases automatically in order to prevent high-temperature-related problems. When this occurs, “TEMPERATURE” is displayed on the screen and the Power LED flashes red and green alternately. (When TEMPERATURE ALERT is set to OSD & LED. This varies depending on the setting.)
- If the internal temperature rises further, the monitor automatically enters standby mode. (The Power LED continues flashing 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 9.)
  - 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 MITSUBISHI dealer about removing internal dust.

# Specifications

## ■ Product Specifications

| | | | |
|---|---|---|---|
| Model | LDT651L | | |
| LCD element | 65" wide (163.9 cm diagonal) ASV low-reflection black TFT LCD | | |
| Max. resolution (pixels) | 1920 x 1080 | | |
| Max. colors | 16.77 M colors (8 bits/color) | | |
| Pixel pitch | 0.744 mm (H) x 0.744 mm (V) | | |
| Viewing angle | 176° right/left/up/down (contrast ratio ≥ 10) | | |
| Screen active area inch (mm) | 56-1/4 x 31-5/8 (1428 x 804) | | |
| Computer input signal | Digital (DVI 1.0 standard-compliant), Analog RGB (0.7 Vp-p) [75 Ω] | | |
| Sync signal | Horizontal/vertical separate (TTL: positive/negative), Sync-on-green, Composite sync (TTL: positive/negative) | | |
| Video color system | PAL, PAL-60, SECAM, NTSC (3.58 MHz), NTSC (4.43 MHz) | | |
| Plug and play | VESA DDC2B | | |
| Power management | VESA DPMS, DVI DMPM | | |
| Input terminals | PC/AV | Digital | DVI-D 24 pin (HDCP compatible) x 1 |
| | | | HDMI x 1 |
| | PC | Analog | Mini D-sub 15 pin, 3 rows x 1 |
| | | | BNC *1*2 x 1 |
| | | Audio | 3.5 mm mini stereo jack x 1 |
| | AV | Composite video | BNC x 1 |
| | | S-video | x 1 |
| | | Component | BNC (Y, Cb/Pb, Cr/Pr)*1 x 1 |
| | | Audio | RCA pin (L/R) x 1 |
| | Serial (RS-232C) | | D-sub 9 pin x 1 |
| Output terminals | PC/AV | Digital | DVI-D 24 pin x 1 |
| | Audio | | RCA pin (L/R) x 1 |
| | Serial (RS-232C) | | D-sub 9 pin x 1 |
| | Speaker | | 7 W + 7 W [6 Ω] |
| LAN terminal | 10 BASE-T/100 BASE-TX | | |
| Power requirement | AC 100 V - 240 V, 50/60 Hz | | |
| Operating temperature | 32°F to 104°F (0°C to 40°C) | | |
| Operating humidity | 20% to 80% (no condensation) | | |
| Power consumption | 480 W (Input signal waiting mode: 14 W *3, Standby mode: 2.0 W *4) | | |
| Dimensions inch (mm) | Approx. 61-7/8 x 4-15/16 x 36-5/16 (1,572 x 126 x 923) (excluding protrusions) | | |
| Weight lbs. (kg) | Approx. 136.7 (62) (excluding the temporary stand) | | |

*1 Cannot be used simultaneously.
*2 Does not support plug and play.
*3 When AUTO INPUT CHANGE is set to OFF.
*4 When STANDBY MODE is set to LOW POWER, LAN and SCHEDULE are not used. When STANDBY MODE is set to STANDARD, 14W.

As a part of our policy of continuous improvement, MITSUBISHI 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.

## ■ Power management

This monitor conforms to VESA DPMS and DVI DMPM. Both your video card and computer must support the same standard in order for the monitor's power management function to work.

DPMS: Display Power Management Signaling

| DPMS | Screen | Power consumption | Hsync | Vsync |
|---|---|---|---|---|
| ON STATE | Display | 480 W | Yes | Yes |
| STANDBY | No display | 14 W* | No | Yes |
| SUSPEND | | | Yes | No |
| OFF STATE | | | No | No |

DMPM: Digital Monitor Power Management

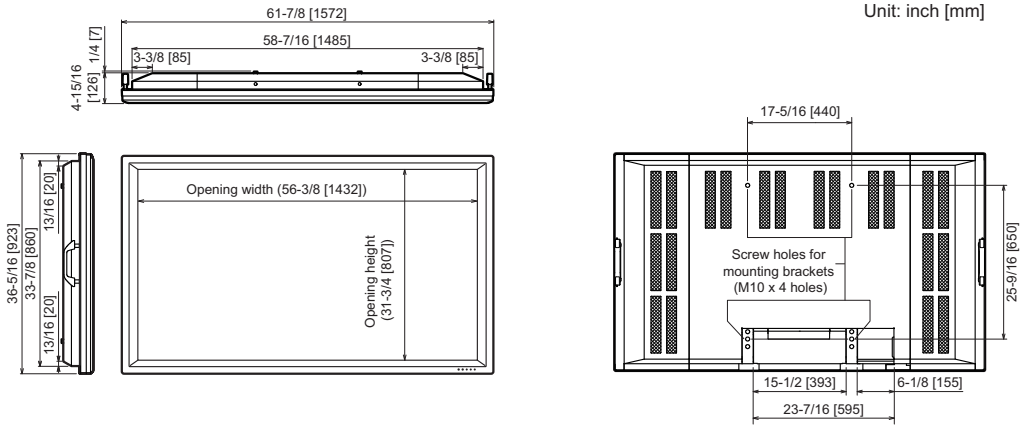
| DMPM | Screen | Power consumption |
|---|---|---|
| Monitor ON | Display | 480 W |
| Active OFF | No display | 14 W* |

* When AUTO INPUT CHANGE is set to OFF.

## ■ Dimensional Drawings

Note that the values shown are approximate values.

Unit: inch [mm]




When mounting the monitor, read the manual of the brackets or stand for their mounting procedure. The screw holes for mounting brackets (M10 x 4 holes) are provided on the rear of the monitor.
Note that screw hole depth of the monitor is 13/16 inch (20 mm). Loose holding 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 3/8 inch (10 mm) length of thread. Use the bracket which applied UL1678 standard, and which can endure at least 4 times or more the weight of the monitor.

## ■ Compatible signal timing (PC)

| Screen resolution | | Hsync | Vsync | Dot frequency | Digital | | Analog(PC3/PC4) |
|---|---|---|---|---|---|---|---|
| | | | | | DVI(PC1) | HDMI(PC2) | |
| VESA | 640 × 480 | 31.5kHz | 60Hz | 25.175MHz | Yes | Yes | Yes |
| | | 37.9kHz | 72Hz | 31.5MHz | Yes | Yes | Yes |
| | | 37.5kHz | 75Hz | 31.5MHz | Yes | Yes | Yes |
| | 800 × 600 | 35.1kHz | 56Hz | 36.0MHz | - | - | Yes |
| | | 37.9kHz | 60Hz | 40.0MHz | Yes | Yes | Yes |
| | | 48.1kHz | 72Hz | 50.0MHz | Yes | Yes | Yes |
| | | 46.9kHz | 75Hz | 49.5MHz | Yes | Yes | Yes |
| | 848 × 480 | 31.0kHz | 60Hz | 33.75MHz | Yes | - | Yes |
| | 1024 × 768 | 48.4kHz | 60Hz | 65.0MHz | Yes | Yes | Yes |
| | | 56.5kHz | 70Hz | 75.0MHz | Yes | Yes | Yes |
| | | 60.0kHz | 75Hz | 78.75MHz | Yes | Yes | Yes |
| | 1152 × 864 | 67.5kHz | 75Hz | 108.0MHz | Yes | Yes | Yes |
| | 1280 × 768 | 47.8kHz | 60Hz | 79.5MHz | Yes | - | Yes |
| | | 60.3kHz | 75Hz | 102.25MHz | Yes | - | Yes |
| | 1280 × 960 | 60.0kHz | 60Hz | 108.0MHz | Yes | Yes | Yes |
| | 1280 × 1024 | 64.0kHz | 60Hz | 108.0MHz | Yes | Yes | Yes |
| | | 80.0kHz | 75Hz | 135.0MHz | Yes | Yes | Yes |
| | 1360 × 768 | 47.7kHz | 60Hz | 85.5MHz | Yes | Yes | Yes |
| | 1400 × 1050 | 65.3kHz | 60Hz | 121.75MHz | Yes | Yes | Yes |
| | 1600 × 1200*1 | 75.0kHz | 60Hz | 162.0MHz | Yes | Yes | Yes |
| | 1680 × 1050 | 65.3kHz | 60Hz | 146.25MHz | Yes | Yes | Yes |
| | 1920 × 1200*1 | 74.0kHz | 60Hz | 154.0MHz | Yes | Yes | Yes |
| Wide | 1280 × 720 | 44.7kHz | 60Hz | 74.4MHz | Yes | Yes | Yes |
| | 1920 × 1080 | 66.3kHz | 60Hz | 148.5MHz | Yes | Yes | Yes |
| | | 67.5kHz | 60Hz | 148.5MHz | Yes | Yes | Yes |
| US TEXT | 720 × 400 | 31.5kHz | 70Hz | 28.3MHz | Yes | Yes | Yes |
| Sun | 1024 × 768 | 48.3kHz | 60Hz | 64.13MHz | - | - | Yes |
| | | 53.6kHz | 66Hz | 70.4MHz | - | - | Yes |
| | | 56.6kHz | 70Hz | 74.25MHz | - | - | Yes |
| | 1152 × 900 | 61.8kHz | 66Hz | 94.88MHz | - | - | Yes |
| | | 71.8kHz | 76.2Hz | 108.23MHz | - | - | Yes |
| | 1280 × 1024 | 71.7kHz | 67.2Hz | 117.01MHz | - | - | Yes |
| | | 81.1kHz | 76Hz | 134.99MHz | - | - | Yes |
| | 1600 × 1000 | 68.6kHz | 66Hz | 135.76MHz | - | - | Yes |

*1 Displays a reduced image.

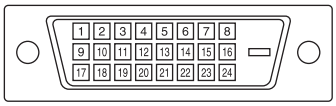
* All are compliant only with non-interlaced.
* Depending on the connected PC, images may not be displayed properly even if the compatible signal described above is input.
* The frequency values for the Sun are reference values.

## ■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.

## ■PC1/AV1 input terminal pins

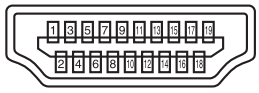
**(DVI-D24 pin)**



| No. | Function | No. | Function |
|---|---|---|---|
| 1 | TMDS data 2- | 13 | N.C. |
| 2 | TMDS data 2+ | 14 | +5V |
| 3 | TMDS data 2/4 shield | 15 | GND |
| 4 | N.C. | 16 | Hot-plug detection |
| 5 | N.C. | 17 | TMDS data 0- |
| 6 | DDC clock | 18 | TMDS data 0+ |
| 7 | DDC data | 19 | TMDS data 0/5 shield |
| 8 | N.C. | 20 | N.C. |
| 9 | TMDS data 1- | 21 | N.C. |
| 10 | TMDS data 1+ | 22 | TMDS clock shield |
| 11 | TMDS data 1/3 shield | 23 | TMDS clock+ |
| 12 | N.C. | 24 | TMDS clock- |

## ■PC2/AV2 input terminal pins

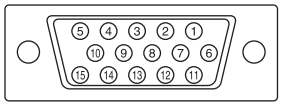
**(HDMI™ Connector)**



| 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+ | | |

## ■PC3 input terminal pins

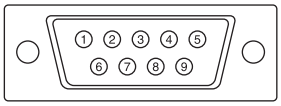
**(Mini D-sub 15 pin)**



| 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 | | |

## ■RS-232C input terminal pins

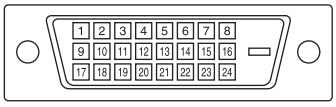
**(D-sub 9 pin)**



| No. | Function | No. | Function |
|---|---|---|---|
| 1 | N.C. | 6 | N.C. |
| 2 | Transmitted data | 7 | N.C. |
| 3 | Received data | 8 | N.C. |
| 4 | N.C. | 9 | N.C. |
| 5 | GND | | |

## ■PC/AV output terminal pins

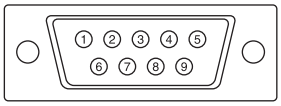
**(DVI-D24 pin)**



| No. | Function | No. | Function |
|---|---|---|---|
| 1 | TMDS data 2- | 13 | N.C. |
| 2 | TMDS data 2+ | 14 | +5V |
| 3 | TMDS data 2/4 shield | 15 | GND |
| 4 | N.C. | 16 | Hot-plug detection |
| 5 | N.C. | 17 | TMDS data 0- |
| 6 | DDC clock | 18 | TMDS data 0+ |
| 7 | DDC data | 19 | TMDS data 0/5 shield |
| 8 | N.C. | 20 | N.C. |
| 9 | TMDS data 1- | 21 | N.C. |
| 10 | TMDS data 1+ | 22 | TMDS clock shield |
| 11 | TMDS data 1/3 shield | 23 | TMDS clock+ |
| 12 | N.C. | 24 | TMDS clock- |

## ■RS-232C output terminal pins

**(D-sub 9 pin)**



| No. | Function | No. | Function |
|---|---|---|---|
| 1 | N.C. | 6 | N.C. |
| 2 | Received data | 7 | N.C. |
| 3 | Transmitted data | 8 | N.C. |
| 4 | N.C. | 9 | N.C. |
| 5 | GND | | |

# MEMO

# MEMO



(TINSE1127MPZZ)

# MEMO

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