

Color LCD Monitor

Model Name

UT32-MH700A

UT37-MX700A



This is the image of the model UT32-MH700A.

HDMITM
HIGH-DEFINITION MULTIMEDIA INTERFACE

READ THE INSTRUCTIONS INSIDE CAREFULLY.
KEEP THIS USER MANUAL FOR FUTURE REFERENCE
For future reference, record the serial number of your monitor.
SERIAL NO. _____

This serial number is located on the rear of the monitor.

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IMPORTANT SAFETY INSTRUCTIONS

- Please read these instructions thoroughly.
- Please retain these instructions for future reference.
- Heed all warnings and cautions to prevent potential danger.
- Follow all instructions. Improper handling could cause personal injury and/or serious damage to the unit that may shorten its service lifetime.
- Do not block any ventilation openings.
- Install the product in accordance with the manufacturer's instructions.
- If problems occur during installation or operation of the product, before calling for technical support or service technicians, please read "TROUBLESHOOTING" (33 ~ 35) to determine the symptoms.
- If serious problems occur (such as smoke or an abnormal odor from the unit), unplug the power cord, and then, contact your local dealer immediately.

INTRODUCTION

Thank you for purchasing the Hitachi LCD Monitor. We hope that you will enjoy the peak performance of this product.

This LCD Monitor has been designed to comply with international standards. However, it could cause personal injury and property damage if improperly handled. In order to prevent potential danger and obtain maximum benefit from your set, please observe the following instructions when installing, operating, and cleaning the product.

Keep this manual for future reference and record the serial number of your set in the space provided on the front cover page of this manual.

About This Manual

- The information in this manual is subject to change without notice.
- This manual has been produced with the utmost care. If you have any comments or questions regarding this manual, please contact your local dealer or our Customer Service Center.
- Before operating the set, please fully understand the prerequisites such as specifications or constraints for the hardware and software. We are not responsible and accept no liability for any loss, damage or injury as a result of misuse.
- Reproduction, copying, utilization, modification and/or transmission in whole or in part of this manual are prohibited except by prior written consent.
- All other products and company names used in this manual are trademarks or registered trademarks of their respective owners.

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- VGA and XGA are trademarks of International Business Machines Corporation.
- VESA is a registered trademark of the Video Electronics Standard Association.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Even if no special note has been made of company or product trademarks, these trademarks have been fully respected.

Software

It is illegal for you to alter, decompile, disassemble, decrypt, or otherwise reverse-engineer the software installed in this product.

Features



- Ultra-slim-line LCD monitor.
- Large-screen and high-definition LCD.
- Enjoy high resolution display.
(32 inch model: 1366(H) x 768(V) pixels, the other size model: 1920(H) x 1080(V) pixels)
- Improved digital signal processor.
- High quality sound with deeper, richer and dynamic bass tones.
- Accepts a digital input device with HDMI terminal.
- Enjoy the image from your PC with a large, high-definition LCD screen.
- Easy-to-use On-Screen Display system operated by remote control.
- Low power consumption with power saving feature.




SAFETY PRECAUTIONS






For your safety, please read the following precautions carefully before using this product. Improper use would cause serious personal injury and/or damage to your property or the product.

Explanation of the Symbols

The following are the symbols used in this manual and affixed to the unit itself. Please fully understand the meanings of the symbols before reading the instructions in this section.

| | |
|--|---|
|  WARNING | Never ignore the instruction. There are risks of serious or fatal injury to the user. |
|  CAUTION | Do not ignore the instruction. There are risks of personal injury and/or property damage. |

| Other Symbols | |
|---|--|
|  | The triangle with illustration is intended to alert the users that there are risks of fire, explosion, or high temperature if the product is handled improperly. Each illustration within the triangle specifies the contents in detail. (The figure on the left is an example.) |
|  | The circle with diagonal line and illustration indicates a prohibited action (the symbol to the left indicates that dismantling is prohibited). |
|  | This symbol indicates a compulsory action. The contents are clearly indicated in or adjacent to an illustration (the symbol to the left indicates that the power plug should be disconnected from the power outlet). |

|  WARNING | |
|---|--|
| There is a risk of fire, electric shock, or serious injury. | |
| <p>■ If serious problems occur, unplug the power cord immediately.</p> <p>Serious problems such as:</p> <ul style="list-style-type: none"> • Smoke, abnormal odor or noise emitted from the product. • No picture, no sound or distorted picture on the display. • Foreign matter (such as water, metals etc.) entered the unit. <p>Do not continue using the product under these abnormal conditions. Unplug the power cord, and contact your dealer immediately.</p> <p>For your safety, never try to repair the product yourself.</p> |  Disconnect the plug from the power outlet. |
| <p>■ Do not allow liquids or any foreign matter (such as metals or flammable items) to enter the unit.</p> <ul style="list-style-type: none"> • If this does occur, unplug the power cord, and contact your dealer immediately. • Exercise special caution when young children are around the unit. |  |
| <p>■ Do not remove covers, or modify the product.</p> <ul style="list-style-type: none"> • High-voltage components are installed inside of the unit. Removing covers can expose you to high-voltage electric shock, and other hazardous conditions. • Contact your local dealer to perform servicing such as inspection, adjustment or repair work. |   Do not dismantle. |

SAFETY PRECAUTIONS (continued)

WARNING

There is a risk of fire, electric shock or serious injury.

■ **Install the unit in a proper location where it does not expose anyone to danger.**

- If you bump against the edges of the unit, you could be injured.



■ **Do not place any objects on top of the unit.**

Objects such as

- Liquid containers (vase, fish tank, flowerpot, cosmetics or liquid medicine).
- If water or any liquid spills onto the unit, it may cause short-circuiting and result in fire or electric shock. If this occurs, unplug the power cord, and contact your dealer immediately.
- Do not place anything heavy on top of the unit.
- Do not climb on or hang from the unit.
- Do not allow your pets to get on top of the unit



■ **Do not install the unit in an unsuitable location.**

- This could cause a malfunction or in extreme cases danger of electric shock. Locations where high moisture is likely, such as bathrooms or shower rooms, close to windows, or outside where rain, snow or other inclement conditions could occur, should be avoided. Please also avoid installing the unit in a location where fumes from hot springs could come into contact with it.



■ **Unplug the unit in the event of a lightning storm.**

- To reduce the risk of electric shock, do not touch the product when lightning occurs.



Disconnect the plug from the power outlet.

■ **Do not do anything that may damage the power cord.**

- Do not damage, modify, twist, forcibly bend, heat, or pull excessively on the power cord.
- Do not place heavy objects (including the unit itself) on top of the power cord.
- If the power cord is damaged, contact your dealer for repairs or exchange.



■ **Use only with designated power supply voltage.**

- To prevent the risk of fire and electric shock, operate the product only with the power supply voltage indicated on the unit.



■ **Be careful not to drop or allow any impact to affect the unit.**

- Take extra care while moving the unit.
- There is no protection glass on the surface of the LCD panel. Therefore do not press the panel surface with your fingers or hands. Also do not hit any objects against the monitor. These actions would damage the LCD cells or the panel surface and could cause failure or personal injury.
- In the event that you drop the unit or the cabinet is damaged, unplug the power cord and contact your local dealer immediately.
- Continuing use of the product under the above conditions may cause fire or electric shock.



■ **Clean dust or metals from on or around the pins of the power plug regularly.**

- Continuing use of the product under the above conditions may cause fire or electric shock.
- Always unplug the power cord first, then clean the pins using a dry cloth.



■ **Do not place the unit on an unstable surface.**














Unstable surfaces such as:

- Tilted surface or shaky shelving, table, stand or trolley.
- If the unit falls down, this could cause personal injury.



SAFETY PRECAUTIONS (continued)

CAUTION

| | |
|---|---|
| <ul style="list-style-type: none"> ■ Do not place or use the unit in a dusty location. <ul style="list-style-type: none"> • This could cause a malfunction. |  |
| <ul style="list-style-type: none"> ■ Do not cover or block any ventilation holes on the product. <ul style="list-style-type: none"> The unit would overheat and this could cause fire or damage to the product which may shorten its service lifetime. • Install the product in accordance with the instructions in this manual. • Do not place the unit with the ventilation side downward. • Do not install the unit on carpeting or bedding. • Do not cover the unit with table cloths etc. |  |
| <ul style="list-style-type: none"> ■ Be sure to ground the earth cable correctly. <ul style="list-style-type: none"> • Especially when you use a power cord adapter, be sure to connect the earth cable to the ground terminal. Incorrect connection could cause fire or electric shock. • For your safety, always make sure to unplug the power cord before connecting or disconnecting the earth cable. |  Connect the earth cable. |
| <ul style="list-style-type: none"> ■ Observe the anti-tumble measures described in this manual. <ul style="list-style-type: none"> • If the unit tumbles over, there is a risk of personal, possibly fatal injury. Also, this would damage the product seriously. |  |
| <ul style="list-style-type: none"> ■ Do not install the unit near to medical devices. <ul style="list-style-type: none"> • To prevent malfunction of medical devices, do not use the product and medical devices in the same room. |  |
| <ul style="list-style-type: none"> ■ Do not place a CRT-based television near the speakers of the LCD Monitor. <ul style="list-style-type: none"> • This could cause partial discoloration or blurring of the image on the CRT-based television. Please install it away from the speakers of the unit. |  |
| <ul style="list-style-type: none"> ■ Disconnect all of the external connection cables and detach the anti-tumble measures before moving the unit. <ul style="list-style-type: none"> • Otherwise fire, electric shock or personal injury may result. |  |
| <ul style="list-style-type: none"> ■ Connect the power plug securely. <ul style="list-style-type: none"> • Improper connection will cause overheating and may result in fire. • Do not touch the pins of the plug while connecting it to the wall socket. This could cause electric shock. • If the plug is not suitable for the wall socket, contact your dealer for replacement. |   |
| <ul style="list-style-type: none"> ■ Do not handle the power cord with wet hands. <ul style="list-style-type: none"> • This could result in electric shock. |  |
| <ul style="list-style-type: none"> ■ Do not pull the cord when you unplug the power cord. <ul style="list-style-type: none"> • This may damage the cord and could result in fire or electric shock. • Grip the plug when disconnecting it. |  |
| <ul style="list-style-type: none"> ■ Unplug the power cord when you do not intend to use the product for long periods of time. |  |
| <ul style="list-style-type: none"> ■ Handle the batteries properly. <ul style="list-style-type: none"> • Improper or incorrect use of the batteries may cause corrosion or battery leakage, which could cause fire, personal injury or damage to property. • Use only the types of batteries which are indicated in this manual. • Do not replace batteries with used ones. • Install the batteries correctly by observing the polarity (+ and -) indications on the battery compartment. • Do not dispose of used batteries as domestic waste. Dispose of them in accordance with the local regulations. |  |

SAFETY PRECAUTIONS (continued)

PRECAUTIONS

■ Do not install the unit in locations where it will be subjected to high temperature.

This could damage the cabinet or components of the product.

- Do not install near any heat sources such as radiators, heating grilles, stoves, or other apparatus that produce heat.
- Keep the unit out of direct sunlight. Otherwise the resulting increase in temperature of the unit may cause a malfunction.



■ Viewing Advice

- The lighting of the environment in which the product is used should be appropriate. Too bright/dark environments are not good for your eyes.
- Take time to relax your eyes occasionally.
- When you use the product, view from a distance equal to 3 to 7 times the height of the screen. This is the best viewing distance in order to protect your eyes against eyestrain.
- Adjust the volume to an appropriate level, especially during the nighttime.

■ Transporting the product

- When the product needs to be transported due to moving or repair, use the carton box and buffer material that came with the product.
- Always transport the product upright; otherwise this could damage the panel glass or degrade the phosphors of the panel.



■ Keep radios away from the unit while in use.

The unit is designed to meet the international EMI standards to prevent radio interference. However, the unit may generate noise in the radio.

- If noise is heard on the radio, please try the following actions.
 - Adjust the direction of the radio antenna in order not to receive interference from the unit.
 - Keep the radio away from the unit.



■ Infrared communication devices

- Infrared communication devices such as cordless microphones or cordless headphones may not operate properly around the unit. This is because of communication failure. Please note that this is not a malfunction.

■ When you dispose of the product at the end of its service lifetime, follow the regulations in your residential area.

- For more information, contact the local authority or the dealer where you purchased the product.

Cleaning and Maintenance

Please make sure to unplug the power cord before cleaning the unit.

■ How to clean the LCD panel of the unit.

- Wipe the panel with a lint-free and dry cloth in order to prevent damage to the panel surface.
- Do not use a chemical cloth or cleaners. Depending on the ingredients, these may cause discoloration and damage to the panel surface.
- Do not wipe with a rough cloth or rub hard. This may damage the panel surface.
- In case of greasy dirt such as fingerprints, wipe the panel surface with a lint-free cloth moistened with a diluted neutral detergent solution (dilute 1 part of detergent to 100 parts of water), and then wipe with a soft and dry cloth.
- Do not use a spray cleaner. This could cause a malfunction.

■ How to clean the cabinet of the unit.

- The following may cause cracking, deformation and peeling of paint.
 - Do not wipe the cabinet with benzene, thinners and other chemical products.
 - Do not spray volatile solutions such as insecticide over the cabinet.
 - Do not leave the cabinet in prolonged contact with plastic or rubber materials.
- Do not use a chemical cloth, cleaner or wax. Depending on the ingredients, these may cause cracking and deformation.
- Use a lint-free cloth (e.g. cloth for cleaning glasses) to clean the cabinet and control panel of the unit. In case of the excessive dirt, wipe with a soft cloth moistened with a diluted neutral detergent solution and then wipe with a soft and dry cloth.
- Never use the following detergents. They could cause cracking, discoloration and scratching.
 - Acidic/alkaline detergents, alcoholic detergents, abrasive cleaners, soap powder, OA cleaner, car wax, glass cleaner, etc.

SAFETY PRECAUTIONS (continued)

Main Unit Installation

When installing the main unit, be sure to use the specified mounting units in order to obtain maximum performance and maintain safety.

We assume no responsibility nor liability for personal injuries or property damage caused by use of other mounting units or improper installation.

With respect to installation instructions, please read each user manual for the respective mounting units: for Desktop Setup, Wall Mounting, and Ceiling Mounting.

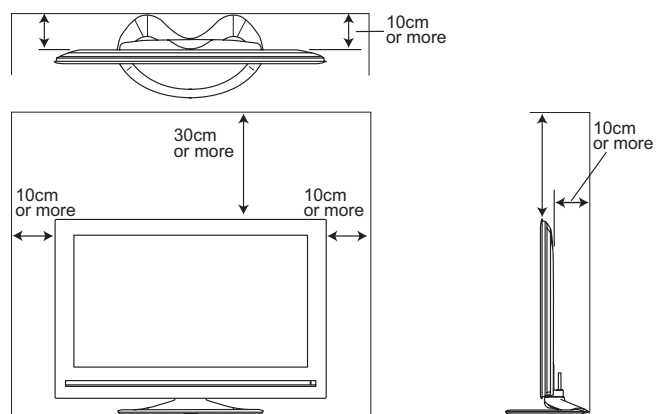
If using Wall or Ceiling Mounting units, contact your local dealer and ask for an approved installation specialist to set up the unit. Never attempt to install it yourself. That could cause injury or damage.

Please make sure that there is adequate space around the unit to prevent overheating.

Make sure not to block any ventilation holes.

Do not install the unit in a small space such as inside a cabinet, closet or box.

Leave at least 10cm of clearance from each side of the unit and 30cm from the top of the unit to ceiling.

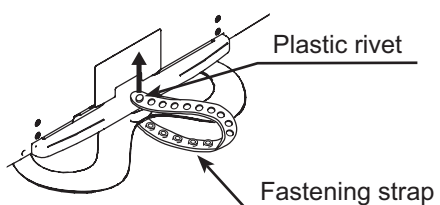


Anti-tumble Measures

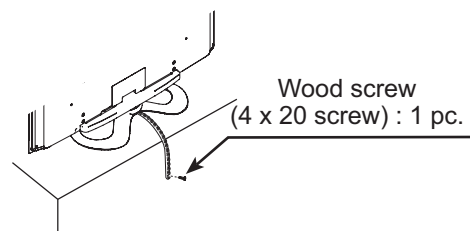
Install in a stable location and take safety precautions to ensure that the set does not fall.

Securing to a table

1 Remove the plastic rivet.



2 Fasten the fastening strap to a table using the wood screw provided.



Securing to ceiling or wall

Use the specified mounting unit to secure the set to a ceiling or wall.

NOTE

- For more information regarding mounting of the unit, please contact your dealer.
- Please install the unit in a proper location where it does not expose anyone to the danger of bumping themselves (for example their hands, head or face, etc) against the edges of the unit and causing personal injury.

ABOUT LCD PANEL

Common Characteristics of the LCD Panel

The following are common phenomena occurring when operating the LCD Panel, due to its structural characteristics. Please note that these are not malfunctions.

• Defective Spots on Panel

The LCD panel is manufactured with high-precision technology. However, there might be some spots that are not illuminated, or are brighter than others, or are in different colors, etc.

• Surface on Panel

The LCD panel displays images by the fluorescent lamps internally. This can raise the temperature of the display surface.

In addition, do not allow any heavy impact to affect the surface of the panel because the LCD panel is made using fine processing glass.

• Use Under Low Temperature Conditions

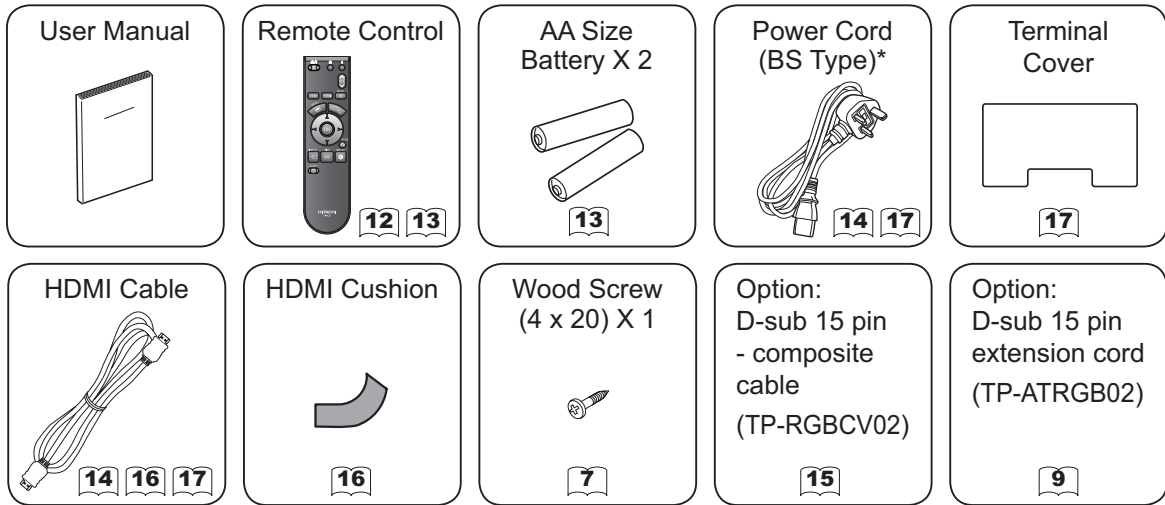
Because of the structural characteristics of the LCD panel, the response speed of the LCD panel becomes slower when the ambient temperature around the monitor becomes too low. In some cases, this may result in a residual image.

The residual image will disappear of its own accord as the temperature rises again to a normal level.

QUICK START GUIDE

For more information on connecting and using your monitor, please be sure to read all instructions in this user manual.

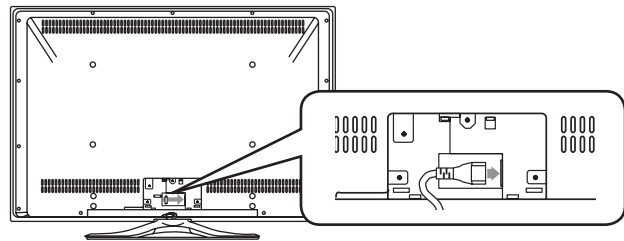
1 Supplied Accessories (including option)



*For some countries, the type of power plug provided may be different from that depicted.

2 Connection 14~17

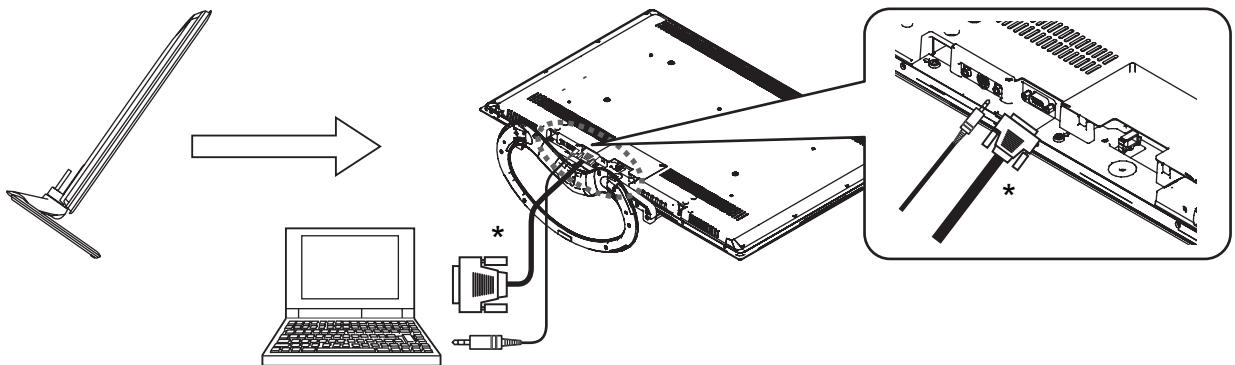
- ① Connect the power cord to the rear panel.



- ② Connect to external equipment.

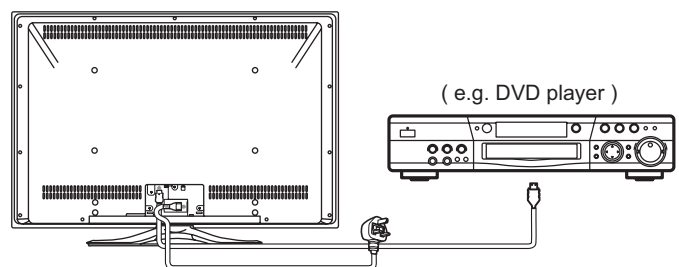
Example 1: Connecting to PC

To insert D-sub 15 pin, tilt the monitor forward and bring the terminals into view. Two people are required to hold the monitor and insert D-sub 15 pin safely. Be careful not to damage the panel.



*You may wish to use an optional D-sub 15 pin extension cord connected to this terminal to make future connections easier.

Example 2: Connecting to HDMI equipment.



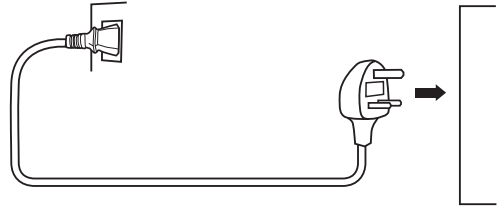
QUICK START GUIDE (continued)

2 Connection ~ (continued)

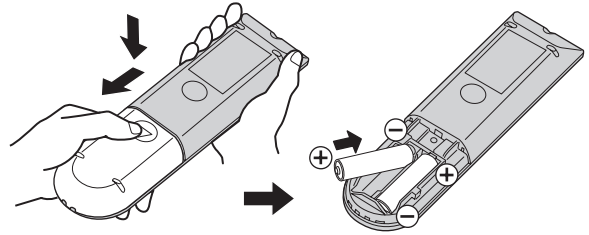
- ③ Connect the plug into the wall socket after all other connections are completed.

CAUTION

- Ensure that both ends of the power cord are easily accessible.



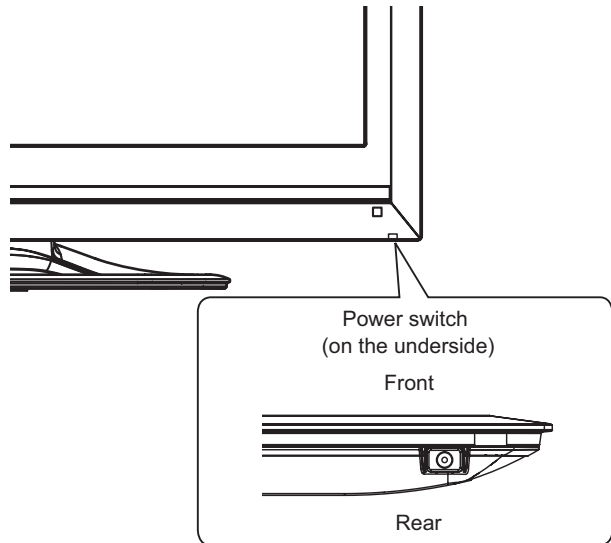
3 Insert the Batteries into the Remote Control... 13



4 Switch On... 18





Press the **Power** switch on the unit.

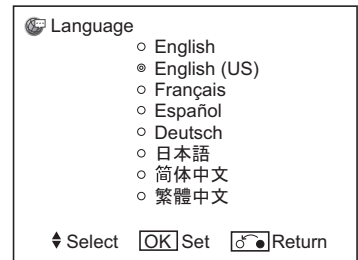
- The color of the indicating lamp turns to Green.



5 Language Selection

The initial language setting for on-screen displays is English (US). You can change to your preferred language.

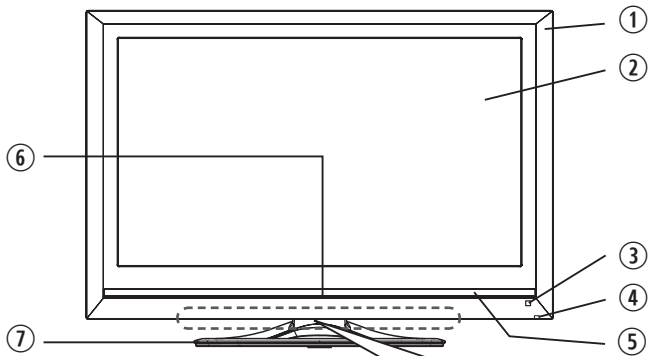
- ① Press the  button to display Main Menu.
- ② Select “Language” using the  button.
- ③ Select the language you prefer from the list using the  button and then press the  button.



COMPONENT NAMES

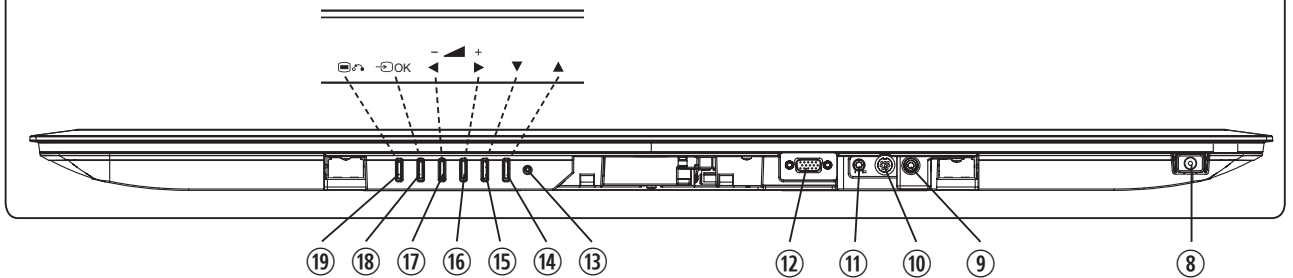
Main Unit

Front Panel




- ① Cabinet
- ② Panel
- ③ Remote Control Receiver
- ④ Indicating Lamp
- ⑤ Speaker
- ⑥ Illumination Lamp
- ⑦ Desktop Stand

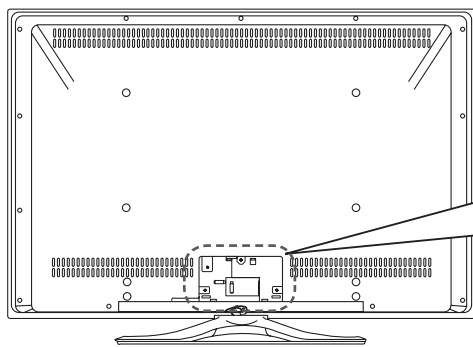
Control panel (on the underside)



- ⑧ Power switch
- ⑨ Control Terminal *
- ⑩ Service use only
- ⑪ PC (RGB)/DVI Analog Audio Input Terminal
- ⑫ PC Connection Terminal (D-sub 15 Pin)
- ⑬ Reset button (See [33](#).)
- ⑭ ▲ button
- ⑮ ▼ button
- ⑯ Volume Up/▶ button
- ⑰ Volume Down/◀ button
- ⑱ Input Select/OK button
- ⑲ Menu/Return button

* The Control Terminal allows linked operations with a Hitachi Media Box having the control terminal with  logo.

Rear Panel

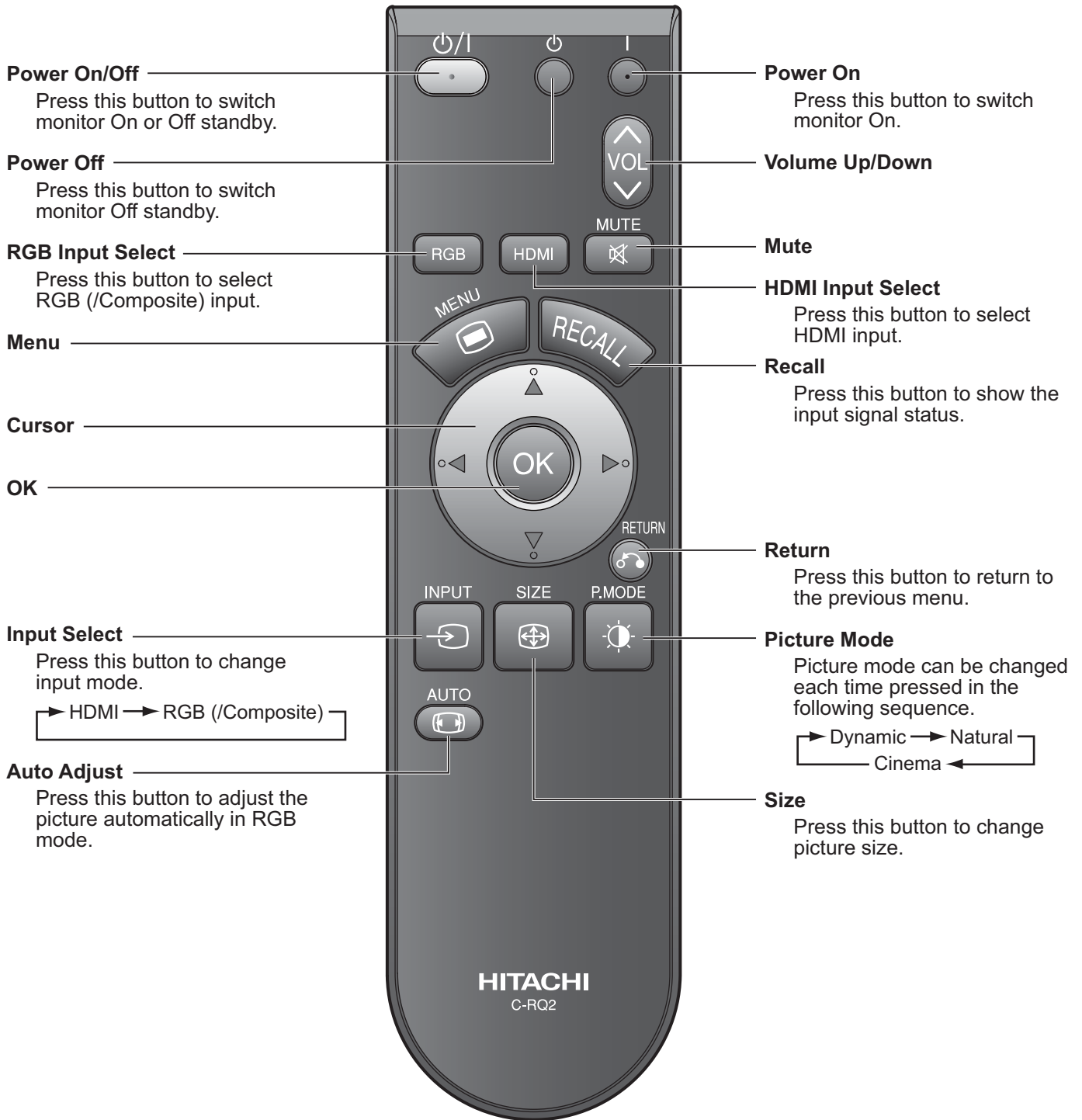


- ① Power Cord Socket
- ② HDMI Input Terminal

Please refer to [14](#)~[17](#) for detailed information regarding the connections.

COMPONENT NAMES (continued)

Remote Control



PREPARATION

Remote Control Battery Installation

The remote control operates on 2 “AA” batteries.

1. Open the battery compartment cover

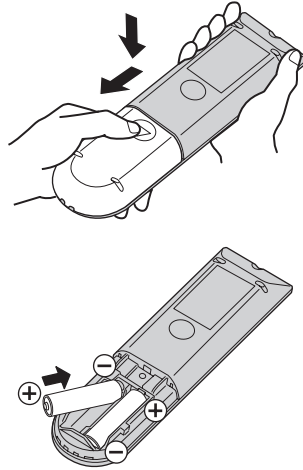
- Slide open the battery compartment cover on the backside in the direction of the arrow, and remove the cover.

2. Install the batteries

- Install 2 “AA” batteries (included) making sure the polarities match the indication inside the compartment.

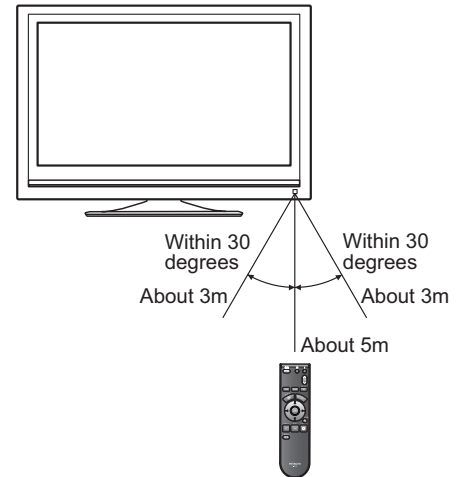
3. Close the battery compartment cover

- Make sure the projections locate in the corresponding holes and slide the compartment cover until it clicks shut.



Handling the Remote Control

Use the remote control within a distance of about 5m from the front of the unit's remote-control sensor and within an angle of about 30 degrees on both sides.



CAUTION

Risk of corrosion or battery leakage possibly resulting in physical injury and/or property damage including fire.

- Never mix used and new batteries in the device.
- Replace all the batteries in the device at the same time.
- Remove the batteries if the remote control is not going to be used for an extended period of time.

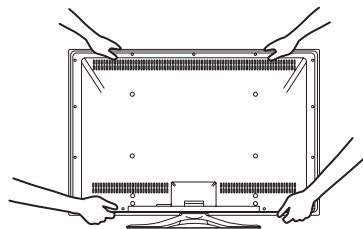
To avoid possible malfunction, read the following instructions and handle the remote control correctly.

- Do not drop or allow impact to affect the remote control.
- Do not spill water or any liquid on the remote control.
- Do not place the remote control on a wet surface.
- Do not place the remote control under direct sunlight or near sources of excessive heat.

Caution When Moving the Main Unit

Whenever the unit is moved, two people are required to transport it safely.

Whenever the unit is moved, it should be lifted forwards by holding the top and base on both sides of the unit for stability.



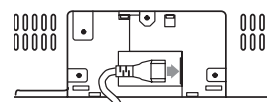
CONNECTION

The unit is suitable for various kinds of connections. Make a connection in the following steps. Be sure to unplug the power cord from the wall socket first when connecting external equipment.

1. Connect power cord to the rear panel.
2. Connect your external equipment (if any) to the unit.
3. Attach cushion, secure with clamps and fit terminal cover.
4. Connect the power plug to the wall socket.

1. Connect Power Cord to the Rear Panel

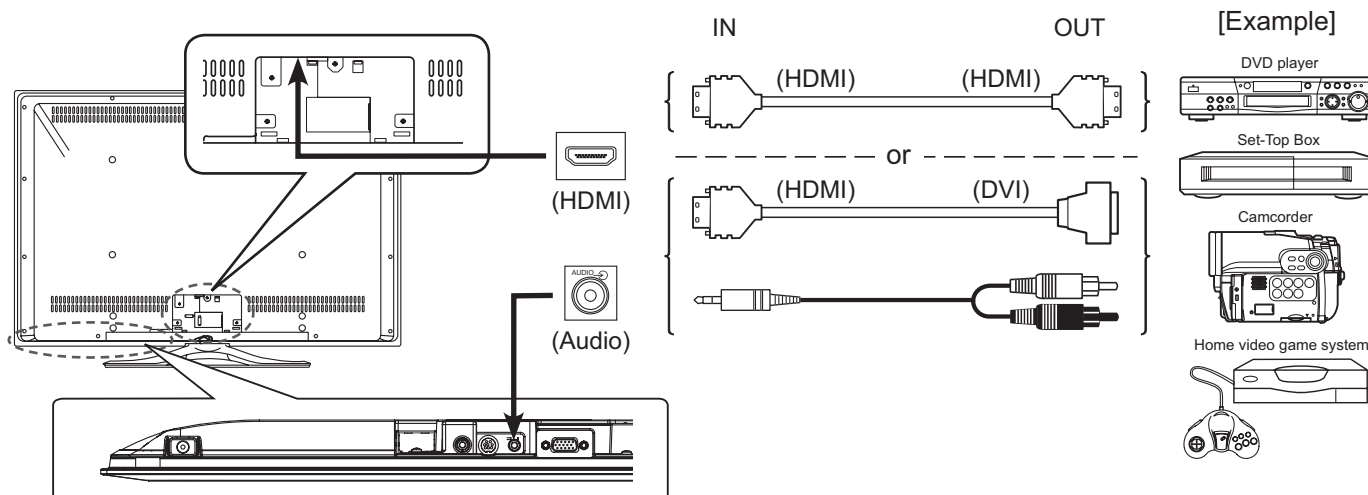
Connect the power cord to the unit.
Do not connect the power plug to the wall socket until all other connections are completed.



2. Connect your External Equipment (if any) to the Unit

Connecting to Equipment with HDMI or DVI Output Terminal

The **HDMI** terminal can be connected to devices an HDMI output.
If the external device has a DVI output, this can be connected using an HDMI-DVI cable. If the HDMI-DVI cable is used, connect analog audio signal to the **PC (RGB)/DVI Analog Audio Input** terminal.
Please be sure to attach the supplied cushion around the HDMI cable when connecting. See [16](#).



Information

The HDMI (High Definition Multimedia Interface) is a multimedia I/O interface. Only one cable is used to transmit all video/audio/control signals, thus facilitating easy connection. Moreover, the digital signals can produce high quality data without any degradation.

If your external device has an HDMI terminal, HDMI connection is recommended for higher quality picture and sound.

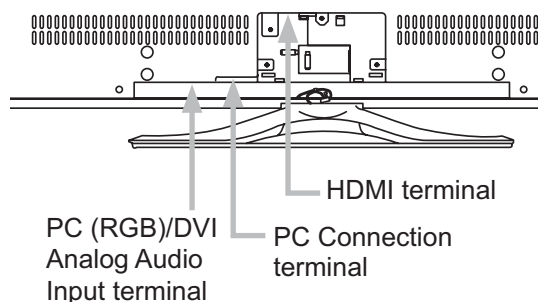
NOTE

- PC (RGB)/DVI Analog Audio Input terminal
 - This terminal can be used in either one of the following cases only.
 - ① The external device is connected to the PC Connection terminal of the unit.
 - ② The DVI output of an external device is connected to the HDMI terminal using an HDMI-DVI cable.

Make sure that the video and audio terminals are connected to the same external device.

For details of the output format of an external device, refer to "Recommended Signal List" on [38](#).

- We do not guarantee that all images from DVI connection can be displayed properly.




CONNECTION (continued)

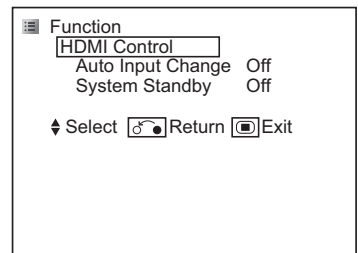
2. Connect your External Equipment (if any) to the Unit (continued)

Connecting to Equipment with HDMI or DVI Output Terminal (continued)

HDMI-Interfaced System

With “HDMI Control” function, you can interface the connected equipment through the HDMI terminal automatically if the connected equipment meets an industry standard “HDMI CEC (Consumer Electronics Control)”. Please check if the connected equipment supports HDMI CEC before using this function.

1. Press the  button.
2. Select “Function” menu.
3. Select “HDMI Control”.
4. Select “Auto Input Change” or “System Standby”.



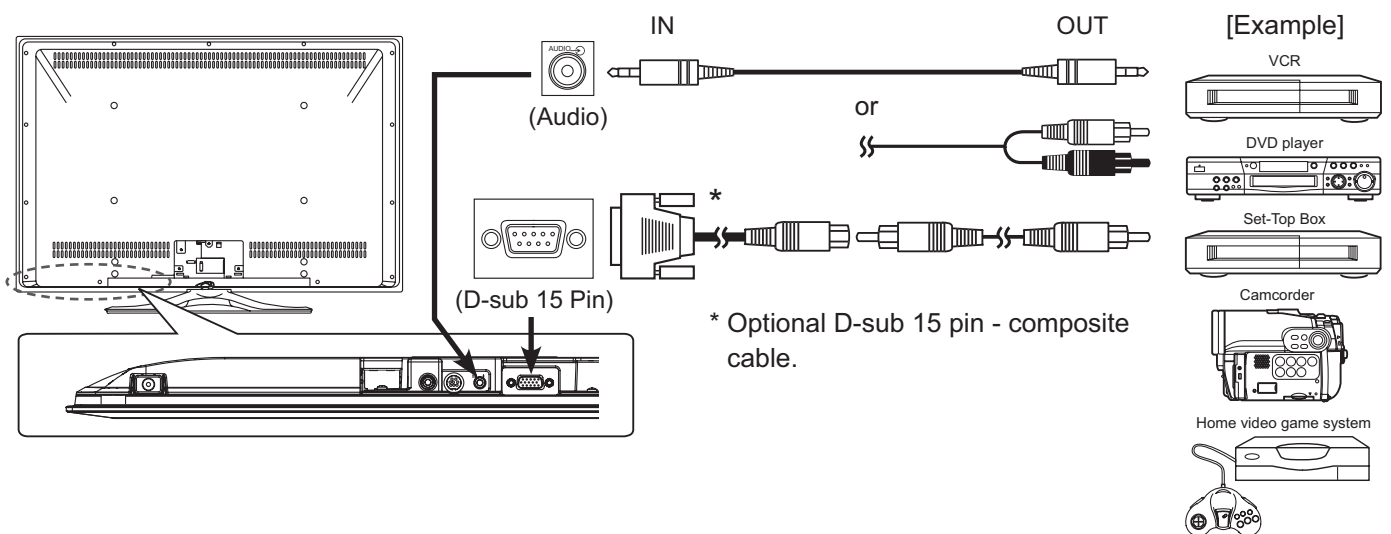
| | | |
|-------------------|-----|--|
| Auto Input Change | Off | Condition : while the monitor is in Standby mode. When the connected equipment starts (such as DVD playback and Disc insertion), the monitor is automatically turned On and switches the picture and audio to HDMI input. |
| | On | |
| System Standby | Off | Condition : while the monitor is On. When the monitor is switched off or set to Standby mode, the connected equipment is also turned off or in Standby mode. |
| | On | |

NOTE

If an HDMI-DVI cable is used, this HDMI-interfaced system is not available.

Connecting to Equipment with Video Output Terminal

The unit can be connected to equipments having video output using the optional D-sub 15 pin - composite cable.



NOTE

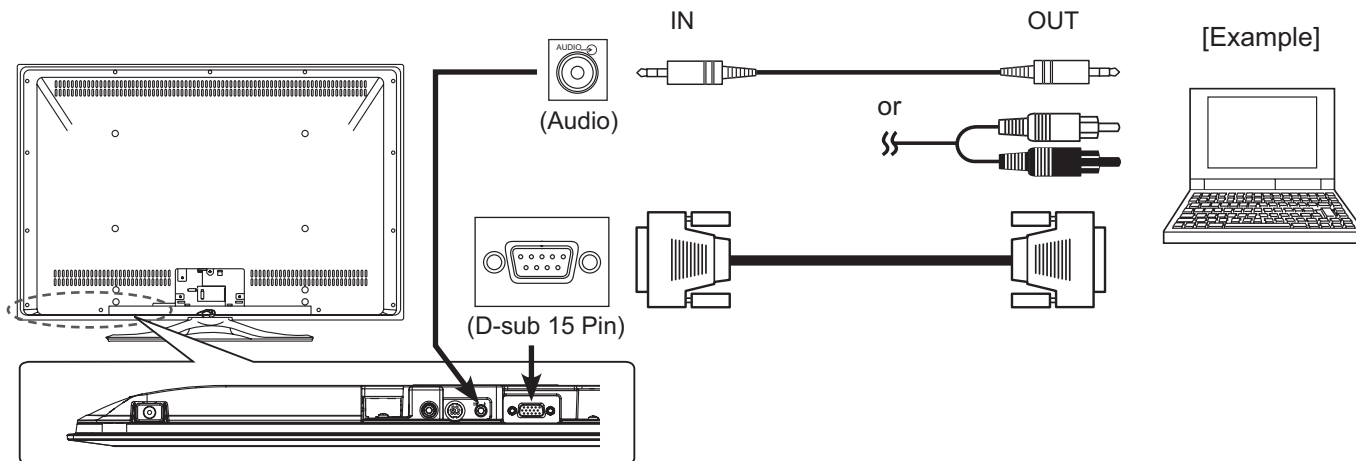
- About the connection of D-sub 15 pin, see [9](#) for details.
- About switching between RGB and Composite input, refer to [17](#) for details.

CONNECTION (continued)

2. Connect your External Equipment (if any) to the Unit (continued)

Connecting to PC

The **PC connection terminal (D-sub 15 pin)** + the **PC (RGB)/DVI Analog Audio Input terminal** are connected to the PC, allowing an analog RGB signal.

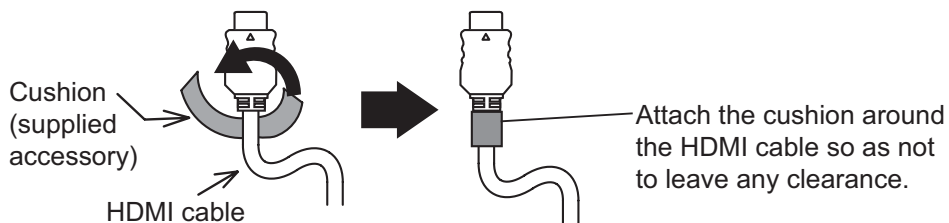


NOTE

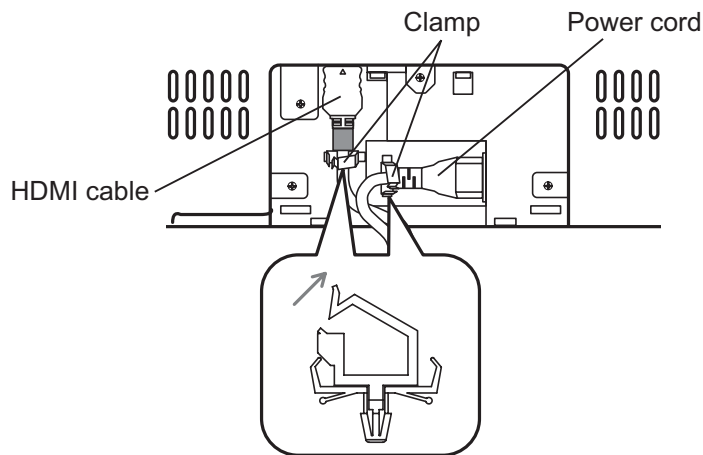
- About the connection of D-sub 15 pin, see [9](#) for details.

3. Attach Cushion, Secure with Clamps and Fit Terminal Cover

1 Attach the supplied cushion around the HDMI cable.



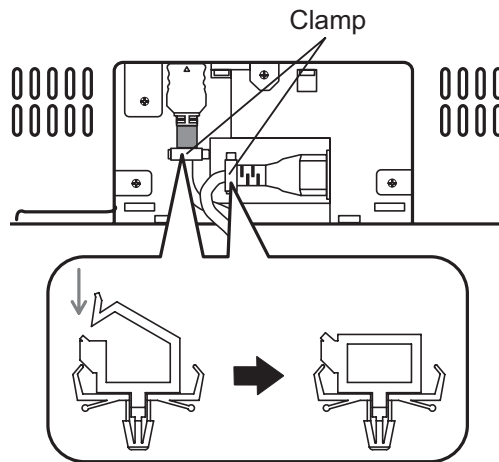
2 Unfasten 2 clamps, and then connect the HDMI cable and power cord to the monitor through open clamps.



CONNECTION (continued)

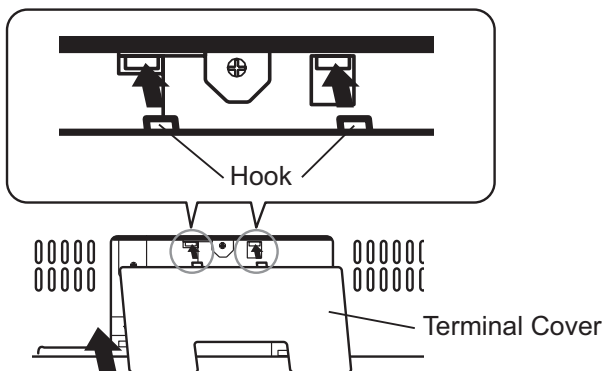
3. Attach Cushion, Secure with Clamps and Fit Terminal Cover (continued)

3 Secure the HDMI cable and power cord with clamps.



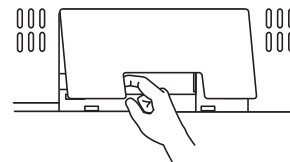
4 Fit the terminal cover onto the monitor.

Insert the hook first to fit the terminal cover.



NOTE

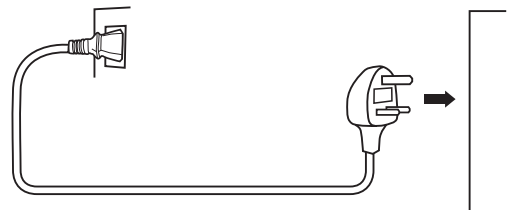
When removing the terminal cover



Let your fingers into the terminal cover and lift it up toward you.

4. Connect the Power Plug into the Wall Socket

Connect the power cord after completing all other connections.
(For some countries the type of plug is different that depicted.)



CAUTION

- Use only the power cord provided.
- Do not use a power supply voltage other than that indicated (AC110-240V, 50/60Hz). It may cause fire or electric shock.
- For the LCD monitor, a three-core power cord with a ground terminal is used for efficiency protection. Always be sure to connect the power cord to a three-pin grounded outlet and make sure that the cord is properly grounded. If you use a power source converter plug, use an outlet with a ground terminal and screw down the ground line.
- Ensure that both ends of the power cord are easily accessible.
- If you have to change the power cord, please use a certified power cord that meets your region's safety standards.

BASIC OPERATION

Power On/Off

Turn On the power of the unit.

• To turn On the power to the unit:

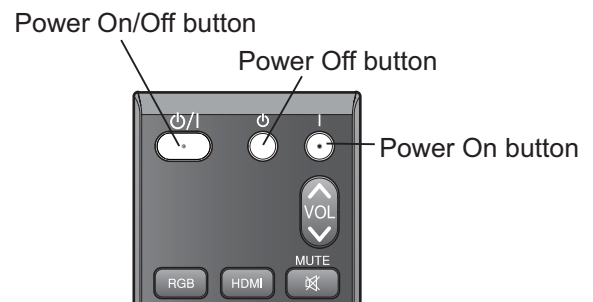
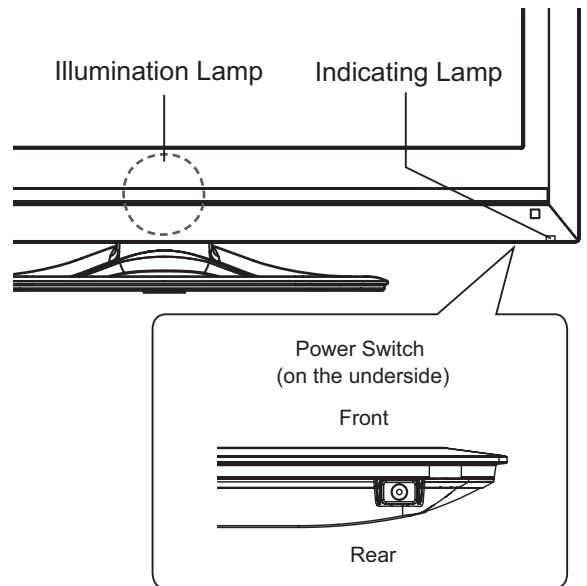
1. Press the **Power** switch on the unit.
 - The Indicating Lamp illuminates in **Green**, and the Illumination Lamp turns into Blue. The image will display on screen.
2. Once the **Power** switch is on, you can turn On/Off by pressing the **Power (On/Off, On, Off)** button on the remote control.

• To turn Off the power to the unit:

1. Press the **Power (On/Off, Off)** button on the remote control.
 - The image disappears from the screen. The Indicating Lamp turns into **Red** (Standby mode), and the Illumination Lamp turns off.
2. Press the **Power** switch on the unit to completely turn Off the power to the unit.

NOTE

- While the Indicating Lamp illuminates in Red (Standby mode), you can turn On/Off by pressing the **Power (On/Off, On, Off)** button on the remote control.



The Indicating Lamp/Illumination Lamp Status

| Indicating Lamp | Illumination Lamp | Power Status | Remark |
|-----------------|-------------------|-----------------|---|
| Off | – | Off | – |
| Red | – | Standby mode | – |
| Green | Blue | On | – |
| Orange | – | Power Save mode | Refer to 32 and 33 for the condition. |

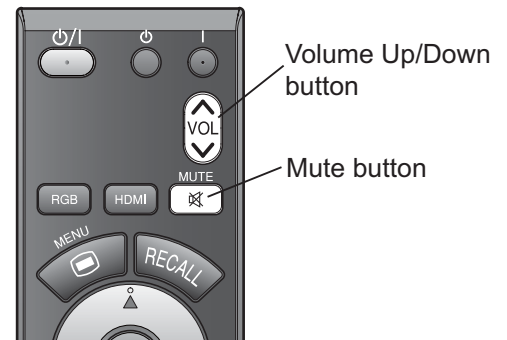
NOTE

- Wherever the monitor receives signal from the remote control, the indicating lamp blinks in green.
- If the image does not appear on the screen at all, or if there is any problem with it, see “TROUBLESHOOTING” on [33](#)~[35](#). This may help you to solve the problems.
- After turning On, it takes about 6 seconds until the monitor starts up. Please note that buttons on the remote control and the unit (such as the Power button) do not work during this period of time.
- Do not switch the power On/Off repeatedly within a short period of time. It could cause a malfunction.
- If a power cut occurs during use of the unit, to avoid sudden surges of electricity when the power comes back on, unplug the power cord before leaving home.



BASIC OPERATION (continued)

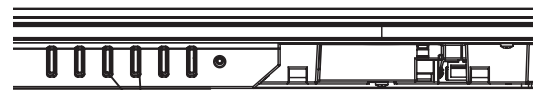
Volume Up/Down

1. To increase the sound volume, press the **Volume Up** button on the remote control or control panel.
 - The Volume Indicator value on the screen will shift to the right.
2. To decrease the sound volume, press the **Volume Down** button on the remote control or control panel.
 - The Volume Indicator value on the screen will shift to the left.

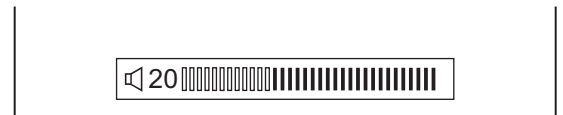


Mute

1. To mute sounds, press the  button on the remote control.
 - The sound of the unit is temporarily turned Off.
 - The color of the Volume Indicator will turn into **grey** while muting the volume.
2. To turn the sound back on, press the  button again, or press the **Volume Up** button on either the remote control or control panel.
 - The color of the Volume Indicator will turn back to **blue**.



Volume Up/Down button



NOTE


- You can decrease the volume by pressing the **Volume Down** button while the sound is muted.

BASIC OPERATION (continued)

Input Switching to HDMI and RGB



By pressing the **Input Select** button, you can switch the input to display the image outputting from the external equipment connected to each terminal (HDMI and RGB (/Composite)).

<From Remote Control>

- Press the  button on the remote control.

Each time this button is pressed, the screen displays the corresponding mode in the following sequence.

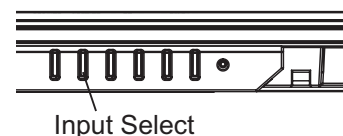
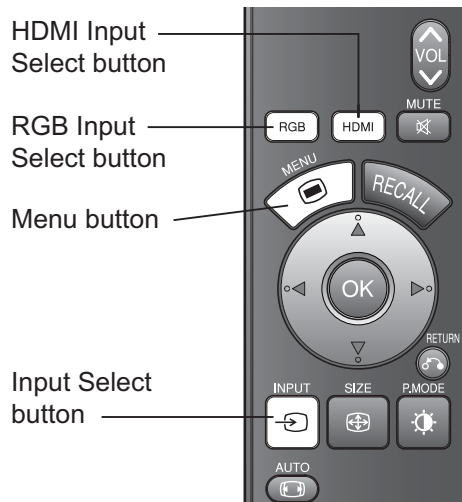


- Press the  or  button to directly select the input mode.


<From Control panel>


The Input modes can also be switched using the **Input Select** button on the control panel.

Each time this button is pressed, the screen displays the corresponding mode in the following sequence.



NOTE Switching between RGB and Composite Input

When pressing the  button, you will see the image from either RGB or Composite mode. You can set up the mode in advance if necessary.

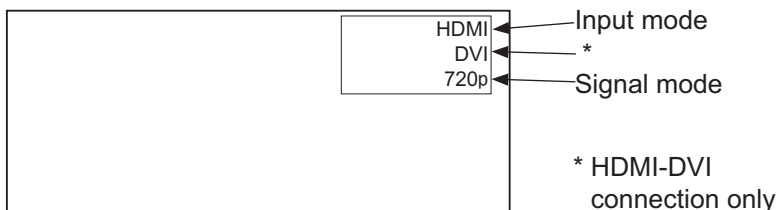
1. Press the  button in RGB or Composite mode.
 2. Select "Setup" menu.
 3. Select "RGB Input".
 - Select "Composite" to display the image from video output via the optional D-sub 15 pin - composite cable.
 - Select "RGB" to display the image from PC.
- See [27](#) and [29](#) for details of "RGB Input" menu.

Input Signal Screen Display

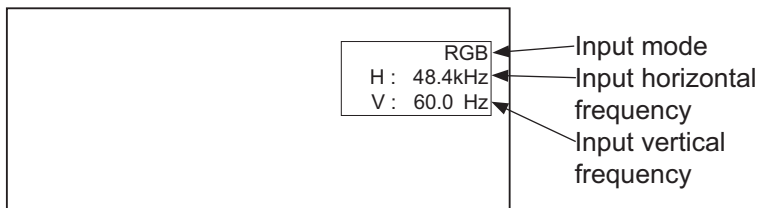
The input signal status can be displayed on the screen by pressing the  button on the remote control.

- The display will go out in approximately 6 seconds.

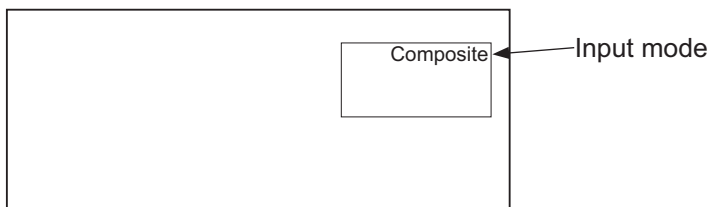
HDMI mode



RGB mode



Composite mode











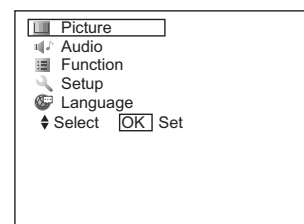
SETUP OPERATION

How to Use the On-Screen Display (OSD) System

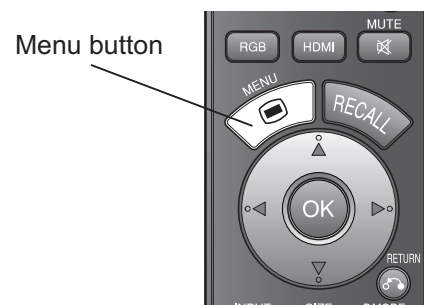
You can use the On-Screen Display system to access the various kinds of the features and functions.

• Basic Operation

1. Press the  button on the remote control or the **Menu** button on the control panel of the unit. The **Main Menu** is displayed on the screen as shown on the right.
2. To select the item, press the  button.
The selected item will be highlighted in Yellow.
3. Press the  button to set your selection.
The selected menu page will be displayed on the screen.
4. Use the  button to choose the item on the menu page.
Press the  button to set your selection.
5. Use the  button to adjust the item values or choose options.
Press the  button to set your selection.
6. To exit from the menu, press the  button.



<Main Menu>






NOTE

- The OSD menu screen will be closed automatically when no operation has been made for about one minute.
- If the item on the menu is shown in grey, it means that it cannot be selected or adjusted.

Select Language

Select the language from the list so that the OSD menu can be displayed in the selected language.
The default setting is English (US).

• How to set Language

1. Enter the “**Language**” menu from the Main Menu.
2. Select your preferred language from the list using the  button.
The selected item will be highlighted in Yellow.
3. Press the  button to set your selection.
The mark on the left turns into a double circle when the selection is fixed.
4. Press the  button to exit from the entire OSD menu.



SETUP OPERATION (continued)

Main Menu List

| | | Menu | Page | |
|-----------------------------|---|---|---|----|
| Picture (HDMI/Composite) | Picture Mode | Select between 3 picture modes according to the lighting condition. | 23 | |
| | Contrast | Adjust to increase or decrease the picture contrast. | 23 | |
| | Brightness | Adjust to brighten or darken the picture. | 23 | |
| | Color | Adjust to increase or decrease the color density. | 23 | |
| | Sharpness | Adjust to sharpen or soften the picture. | 23 | |
| | Tint | Adjust to obtain natural skin color. | 23 | |
| | Color Temperature | Select between 3 settings according to your preferred color tone. | 23 | |
| | Back Light | Adjust to increase or decrease the brightness of back light on LCD panel. | 23 | |
| | Reset | Reset each item on the menu screen to the factory setting. | 23 | |
| | Deep Color | Enhance the color depth of picture. | 24 | |
| | Contrast Mode | Select between 3 contrast modes to suit your preference. | 24 | |
| | 3D Color Management | Adjust the suitable tint, color density, and brightness on image. | 24 | |
| | Black Enhancement | Adjust the black level compensation. | 24 | |
| | DNR | Reduce noise for picture signal. | 25 | |
| | MPEG NR | Reduce mosquito noise in the picture. | 25 | |
| | Cross Color NR | Reduce noise caused by color mixture of adjacent pixels. | 25 | |
| | Game Mode | Reduce the time-lag of speed on the moving image during TV game play. | 15 | |
| | Film Mode | Adjust to make the moving image smooth. | 26 | |
| | 3D Comb Filter | Reduce the color blurring to reproduce purer color. | 24 | |
| | Reset | Reset each item on the menu screen to the factory setting. | 24 | |
| Color Temp. Adjust | Set specific adjustment in each of 3 color temperature modes. | 24 | | |
| Picture(RGB) | Contrast | Adjust to increase or decrease the picture contrast. | 28 | |
| | Brightness | Adjust to brighten or darken the picture. | 28 | |
| | Color | Adjust to increase or decrease the color density. | 28 | |
| | Tint | Adjust to obtain natural skin color. | 28 | |
| | Color Temperature | Select between 3 settings according to your preferred color tone. | 28 | |
| | Color Temp. Adjust | Set specific adjustment in each of 3 color temperature modes. | 28 | |
| | Back Light | Adjust to increase or decrease the brightness of back light on LCD panel. | 28 | |
| | Reset | Reset each item on the menu screen to the factory setting. | 28 | |
| Audio | Treble | Adjust to increase or decrease the level of treble. (-15~+15) | - | |
| | Bass | Adjust to increase or decrease the level of bass. (-15~+15) | - | |
| | Balance | Adjust the balance of sound from the bottom right and left speakers. (-10~+10) | - | |
| | Surround | Select surround-sound. (Off/On) | - | |
| | Bass Boost | Enhance bass sounds. (Off/On) | - | |
| | Clear Voice | Select clearer and more realistic sounds. (Off/On) | - | |
| | Perfect Volume | Adjust sound volume appropriately. (Off/On) | - | |
| | Speakers | Select if using internal speakers. (Off/On) | - | |
| | Reset | Reset each item on the menu screen to the factory setting. | - | |
| Function | System | This function is not available. | - | |
| | HDMI Control | Auto Input Change | In response to the connected equipment (such as DVD) through HDMI cable, the monitor is automatically turned On and switched to HDMI input. | 15 |
| | | System Standby | In response to the monitor, the connected equipment (such as DVD) through HDMI cable is automatically turned Off (standby mode). | 15 |
| Setup (HDMI/Composite) | Video Power Save | Save power consumption when no signal can be input in HDMI/Composite input mode. | 32 | |
| | RGB Input | Select the effective signal. | 27 | |
| | Color System | Select color system. | 27 | |
| Setup(RGB) | Auto Adjust | Adjust Horizontal Position, Vertical Position, Horizontal Clock, and Clock Phase automatically. | 29 | |
| | Horizontal Position | Adjust the display position horizontally. | 29 | |
| | Vertical Position | Adjust the display position vertically. | 29 | |
| | Horizontal Clock | Minimize the vertical stripes on the screen. | 29 | |
| | Clock Phase | Minimize the blurring of the letters and stripes on horizontal row. | 29 | |
| | Reset | Reset each item on the menu screen to the factory setting. | 29 | |
| | Frequency Display | Set On for PC signal frequency information to be displayed on the Input Signal Screen Display. | 29 | |
| | WXGA Mode | Select the resolution when WXGA signal is received. | 29 | |
| RGB Input | Select the effective signal. | 29 | | |
| Language | - | | 21 | |

NOTE

- Some of the menus' contents are different depending on the model. Please refer to "Setup hint" on the following pages.
- The menu setting can be stored for each of inputs except "Picture Mode".

SETUP OPERATION (continued)

Watching Images from HDMI/Composite Input

1. Connect to external equipment. (See 14 and 15 for details.)

2. Press the or button to switch to HDMI mode.

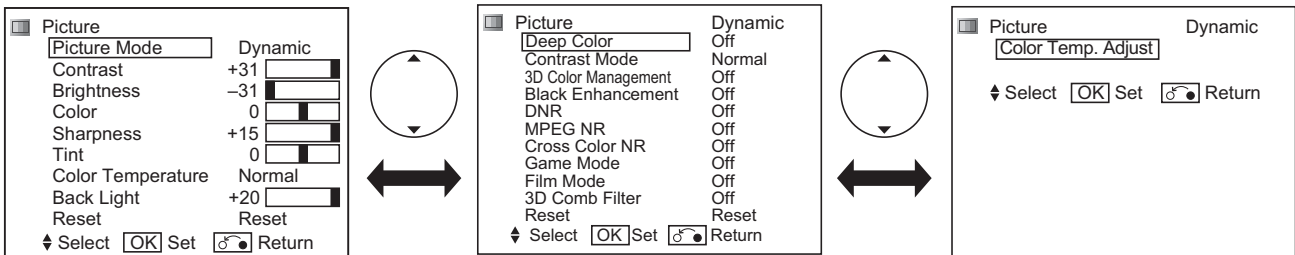
Press the or button to switch to Composite mode.

3. Press the button.

Setting Picture Adjustment

You can adjust the display condition such as color settings.

Select "Picture" from Menu list.




* The OSD screen may be different depending on the model.

| Selected Items | | Setup hint |
|-------------------|----------------------|---|
| Picture Mode | Dynamic | You can make the best selection from 3 modes depending on the lighting condition and intended use. Dynamic: Suitable for brighter conditions. Natural : Suitable for normal lighting conditions. Cinema : Suitable for watching movies. |
| | Natural | |
| | Cinema | |
| Contrast | -31~+31 (+32~+40) | This adjusts the contrast to meet the surrounding brightness by using the button. • The maximum value is extended up to [+40] by pressing the button for more than 2 seconds at [+31]. The value between [+32] ~ [+40] appears in magenta. This is the special feature for dark images, so it is recommended to set the value less than [+31] under normal conditions. |
| Brightness | -31~+31 | Adjust brightness according to personal preference by using the button. |
| Color | -31~+31 | Adjust color according to personal preference by using the button. |
| Sharpness | -15~+15 | Preferred sharpness can be adjusted by pressing the button for softer image or the button for sharper image. |
| Tint | -31~+31 | Pressing the button enhances red and weakens green, while pressing the button weakens red and enhances green. The setup hint is to adjust for realistic skin color. |
| Color Temperature | Cool | You can select from 3 settings depending on the color condition using the button. This is not available when "Deep Color" is "On" in HDMI mode. |
| | Normal | |
| | Warm | |
| Back Light | -20~+20 | Adjust the brightness of the Back Light for maximum visibility. |
| Reset | | Each item on this menu screen can be restored to the factory settings by pressing the button. |

SETUP OPERATION (continued)

Watching Images from HDMI/Composite Input (continued)

Setting Picture Adjustment (continued)

| Selected Items | | Setup hint | |
|---------------------|---------|---|--|
| Deep Color | Off | Enhance the color depth of picture during HDMI input. This is not available for UT32-MH700A model. | |
| | On | | |
| Contrast Mode | Dynamic | It allows you to choose from 3 modes. Dynamic: Sharpen the gradation to improve the contrast feeling. | |
| | Normal | Normal : Improve the contrast feeling to reproduce a faithful gradation. | |
| | Linear | Linear : Reproduce as faithful gradation as possible. This is not available when "Deep Color" is "On" in HDMI mode. | |
| 3D Color Management | Off | On : It automatically adjusts the suitable tint, color density, and brightness on images. Off : Set it off if the image does not look natural. This is not available when "Deep Color" is "On" in HDMI mode. | |
| | On | | |
| Black Enhancement | Off | Adjusts the black level compensation. This is not available when "Deep Color" is "On" in HDMI mode. | |
| | Low | | |
| | Middle | | |
| | High | | |
| Game Mode | Off | During TV game play, you can reduce the time-lag of speed on the moving image. This is not available for UT32-MH700A model. | |
| | On | | |
| 3D Comb Filter | Off | This is available only when using D-sub 15 pin - composite cable. | |
| | Low | This reduces the dot and color blurring in minute scales so that it can reproduce purer color. • This is not available for NTSC4.43, PAL60, SECAM, PAL-N and PAL-M system. • This is available only when receiving NTSC/PAL composite signal. | |
| | Middle | | |
| | High | | |
| High | | | |
| Reset | | Each item on this menu screen can be restored to the factory settings by pressing the  button. | |
| Color Temp. Adjust | On | Amplitude | On: When you want to set specific adjustments in each of the 3 Color Temperature modes. You can adjust on the Amplitude and Cut Off. The settings reflect on the Color Temperature. Amplitude: Subdue the colors (Red/Green/Blue) on the brighter parts (-63~0). Cut Off : Subdue the colors (Red/Green/Blue) on the darker parts (-31~+31). |
| | | Red | |
| | | Green | |
| | | Blue | |
| | | Cut Off | |
| | | Red | |
| | | Green | |
| | | Blue | |
| | Off | Off: Remains as default setting. This is not available when "Deep Color" is "On" in HDMI mode. | |

SETUP OPERATION (continued)

Watching Images from HDMI/Composite Input (continued)

Reducing Noise

You can reduce the unwanted picture noise.

Select **"Picture"** from the Menu list.

| | |
|---------------------|------------------|
| Picture | Dynamic |
| Deep Color | Off |
| Contrast Mode | Normal |
| 3D Color Management | Off |
| Black Enhancement | Off |
| DNR | Off |
| MPEG NR | Off |
| Cross Color NR | Off |
| Game Mode | Off |
| Film Mode | Off |
| 3D Comb Filter | Off |
| Reset | Reset |
| ◆ Select | OK Set ◀▶ Return |

* The OSD screen may be different depending on the model.

| Selected Items | | Setup hint |
|----------------|--------|---|
| DNR | Off | This is a noise reduction system for picture signals. |
| | Low | |
| | Middle | |
| | High | |
| MPEG NR | Off | This is a noise reduction system for MPEG picture signals. (e.g. against mosquito noise and block noise.) |
| | Low | |
| | High | |
| Cross Color NR | Off | This reduces noise caused by color mixture of adjacent pixels. This is not available when "Game Mode" is On. This is not available for UT32-MH700A model. |
| | Low | |
| | High | |

SETUP OPERATION (continued)

Watching Images from HDMI/Composite Input (continued)

Making the Moving Image Smooth

Using this function helps to make the moving image smooth.
Select "**Picture**" from the Menu list.

| | |
|---------------------|-------------------|
| Picture | Dynamic |
| Deep Color | Off |
| Contrast Mode | Normal |
| 3D Color Management | Off |
| Black Enhancement | Off |
| DNR | Off |
| MPEG NR | Off |
| Cross Color NR | Off |
| Game Mode | Off |
| Film Mode | Off |
| 3D Comb Filter | Off |
| Reset | Reset |
| ◆ Select | [OK]Set [↵]Return |

* The OSD screen may be different depending on the model.

For UT32-MH700A:

| Selected Items | | Setup hint |
|----------------|-----|--|
| Film Mode | Off | On: Automatically identifies if it is a movie and faithfully reproduces the original film images. |
| | On | Off: Set to Off if the image does not look natural. This is available only when receiving NTSC, 480i, PAL, SECAM, 576i, or 1080i input signals. |

For UT** -MX700A:

| Selected Items | | Setup hint |
|----------------|----------|---|
| Film Mode | Off | This helps to make the moving image smooth. Original : Automatically identifies the source of movie (3:2 pulldown, 2:2 pulldown) and faithfully reproduces the original film images. |
| | Original | Smooth1: Automatically identifies the source of movie (3:2 pulldown, 2:2 pulldown) and reproduces the smooth motion. |
| | Smooth1 | Smooth2: Reproduces the clear moving image when the input signal is 50Hz. |
| | Smooth2 | Off: Set to Off if the image does not look natural. This is not available in the following cases. • OSD is displayed. • "Game Mode" is On. |

NOTE About "Film Mode"

- The image might not look natural depending on the image contents.

Phenomena such as

- ① When switched to the subtitles of a film or images, the image displays fine horizontal streak lines.
- ② When switched to scenes such as commercial and animation, the image displays fine horizontal streak lines.
- ③ When displaying a ticker or subtitle, the text on the image becomes rough (aliasing).
- ④ When watching the image in Composite mode, which is connected to any external equipment, the OSD of external equipment displays fine horizontal streak lines.

These phenomena occur due to the method of converting the image. Please note that this is not a malfunction. In the event that this is disturbing, please set to Off.

In addition, the effect of this menu might vary depending on the size setting (See [30](#)).

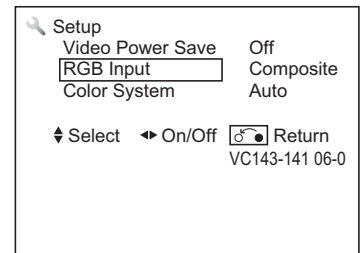
Also, this might be ineffective depending on the scene of the image.

SETUP OPERATION (continued)

Watching Images from HDMI/Composite Input (continued)

Advanced Setting

Select "Setup" from the Menu list.



[Example]

| Selected Items | | Setup hint |
|------------------|-----------|---|
| Video Power Save | Off | See 32 for details. |
| | On | |
| RGB Input | RGB | Select the effective signal. |
| | Composite | |
| Color System | Auto | Selects the color system depending on the input signal. <ul style="list-style-type: none"> • Generally, select [Auto] to receive all signals. • If the input signal has too much noise, the signal level is too low or the operation is unstable in [Auto], select the system according to the color system of the input signal. • Composite input only. |
| | PAL | |
| | SECAM | |
| | NTSC 4.43 | |
| | NTSC 3.58 | |
| | PAL60 | |
| | PAL-M | |
| | PAL-N | |

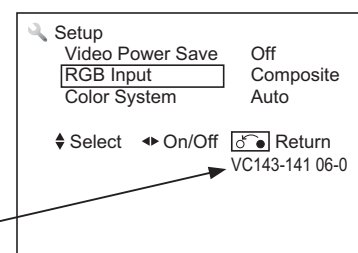
NOTE Watching through the optional D-sub 15 pin - composite cable

If your external equipment does not have an HDMI terminal or a DVI terminal, you can watch images from your external equipment through the optional D-sub 15 pin - composite cable.

1. Connect to your external equipment with the optional D-sub 15 pin - composite cable. (See [15](#).)
2. Switch to RGB input by pressing the **RGB** or **INPUT** button.
3. Press the **MENU** button and select "Setup" from the menu list.
4. Select "Composite" in "RGB Input".

NOTE Checking software version

The software version is displayed on Setup (HDMI/Composite) menu.






Software version

[Example]

SETUP OPERATION (continued)

Viewing Images from a PC

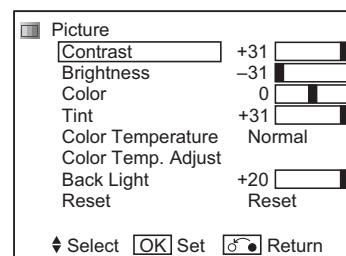
1. Connect to the PC. (See 16 for details of connection to PCs.)
2. Switch to RGB input by pressing the  or  button.
3. Press the  button.









Setting Picture Adjustment

You can adjust the display condition such as position adjustment and color settings.

① Picture Menu

Select "Picture" from the Menu list.



| Selected Items | | Setup hint | | | | | | | | |
|--------------------|---|---|-----|-------|------|---------|-----|-------|------|---|
| Contrast | -31~+31 (+32~+40) | This adjusts the contrast to meet the surrounding brightness using the  button. • The maximum value is extended up to [+40] by pressing the  button for more than 2 seconds at [+31]. Values between [+32] ~ [+40] appear in magenta. This is the special feature for dark images, so it is recommended to set the value less than [+31] under normal conditions. | | | | | | | | |
| Brightness | -31~+31 | Adjust the brightness according to personal preference using the  button. | | | | | | | | |
| Color | -31~+31 | Adjust the color according to personal preference using the  button. | | | | | | | | |
| Tint | -31~+31 | Pressing the  button enhances red and weakens green, while pressing the  button weakens red and enhances green. These adjustments are for realistic skin color. | | | | | | | | |
| Color Temperature | Cool Normal Warm | You can select from 3 settings with the  button. | | | | | | | | |
| Color Temp. Adjust | On <table border="1" style="margin-left: 20px;"> <tr><td>Amplitude</td></tr> <tr><td>Red</td></tr> <tr><td>Green</td></tr> <tr><td>Blue</td></tr> <tr><td>Cut Off</td></tr> <tr><td>Red</td></tr> <tr><td>Green</td></tr> <tr><td>Blue</td></tr> </table> Off | Amplitude | Red | Green | Blue | Cut Off | Red | Green | Blue | On: When you want to set specific adjustments in each of the 3 color temperature modes. You can adjust the Amplitude and Cut Off. The settings reflect on the Color Temperature. Amplitude: Subdues the colors (Red, Green, Blue) on the brighter parts (-63~0). Cut Off : Subdues the colors (Red, Green, Blue) on the darker parts (-31~+31). Off: Remains as default setting. |
| Amplitude | | | | | | | | | | |
| Red | | | | | | | | | | |
| Green | | | | | | | | | | |
| Blue | | | | | | | | | | |
| Cut Off | | | | | | | | | | |
| Red | | | | | | | | | | |
| Green | | | | | | | | | | |
| Blue | | | | | | | | | | |
| Back Light | -20~+20 | Adjusts the brightness of Back Light for maximum visibility. | | | | | | | | |
| Reset | | Each item in the Picture Menu can be restored to the factory setting by pressing the  button. | | | | | | | | |

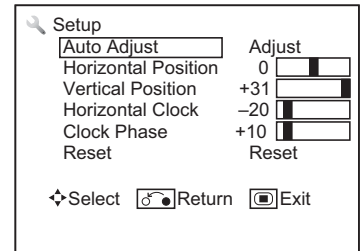
SETUP OPERATION (continued)

Viewing Images from a PC (continued)

Setting Picture Adjustment (continued)

② Setup Menu

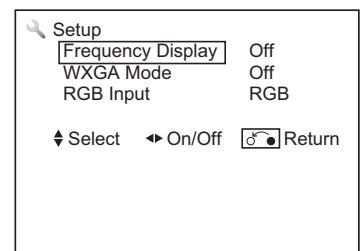
Select "Setup" from the Menu list.



| Selected Items | | Setup hint |
|---------------------|---------|---|
| Auto Adjust | | Adjusts Horizontal Position, Vertical Position, Horizontal Clock, and Clock Phase automatically. <ul style="list-style-type: none"> Press the button to start automatic adjustment as necessary. The message "Auto Adjusting" is displayed. The image might not be adjusted to its optimum condition depending on the types of signals. In that case, adjust each item manually. |
| Horizontal Position | -63~+63 | Adjusts the display position horizontally. <ul style="list-style-type: none"> When the value exceeds a possible range, it will be displayed in magenta. |
| Vertical Position | -31~+31 | Adjusts the display position vertically. <ul style="list-style-type: none"> When the value exceeds a possible range, it will be displayed in magenta. |
| Horizontal Clock | -31~+31 | Minimizes vertical stripes on the screen. |
| Clock Phase | 0~+63 | Minimizes the blurring of letters and stripes on horizontal row. <ul style="list-style-type: none"> Be sure to adjust Horizontal Clock before adjusting Clock Phase. When the value exceeds a possible range, it will be displayed in magenta. |
| Reset | | Each item in Setup Menu can be restored to the factory setting by pressing the button. |

Advanced Setting

Select "Setup" from the Menu list and skip to the second page.




* The OSD screen may be different depending on the model.

| Selected Items | | Setup hint |
|-------------------|-----------|---|
| Frequency Display | Off | Set to On for PC signal frequency information to be displayed on the Input Signal Screen Display. |
| | On | |
| WXGA Mode | Off | Selects the resolution when a WXGA signal is received. |
| | 1280X768 | |
| | 1360X768 | |
| RGB Input | RGB | Selects the effective signal. Refer to 20 and 27 for details. |
| | Composite | |

FUNCTION

Size Switching

Each time the  button of the remote control is pressed, the screen display size is switched in sequence, and the status will be displayed at the bottom of the screen.

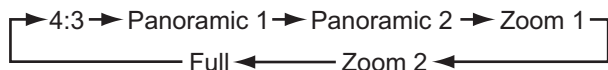


Size button

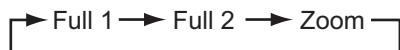
HDMI/Composite Signal Input

• Display Size

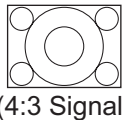
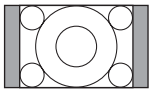
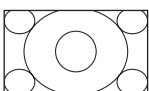
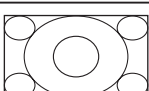
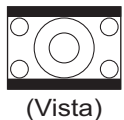

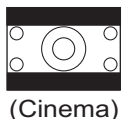
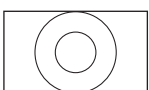
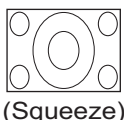
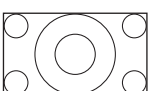




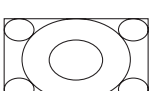
Watching Standard Definition Pictures (480i, 480p, 576i, 576p, Composite)



Watching High Definition Pictures (720p, 1080i, 1080p)



You can display the image at its optimum condition by selecting display size depending on the current output image as shown below.

| Input Signal | Display Screen | Display Size | To display suitable screen as follows. |
|--|---|--------------|---|
| When Watching Standard Definition Pictures: | | | |
|  (4:3 Signal) |  | 4:3 | Plays a 4:3 image on screen faithfully. Blanking occurs on both sides. |
| |  | Panoramic 1 | Plays a 4:3 image which enlarges horizontal and vertical size of the middle in equal scales, and displays both sides appearing much wider. |
| |  | Panoramic 2 | The vertical size of Panoramic1 is reduced so that you can see the whole image, including any subtitles, that might otherwise not be fully visible on the screen. |
|  (Vista) |  | Zoom 1 | Plays a 16:9 image in 4:3 frame (Vista size) faithfully. *In some cases, slight blanking may remain at the top and bottom. |
|  (Cinema) |  | Zoom 2 | Plays a 21:9 image in 4:3 frame (Cinema size) expanding vertically. *In some cases, slight blanking may remain at the top and bottom. |
|  (Squeeze) |  | Full | Plays a 4:3 image faithfully in the standard vertical size and horizontally squeezed. |
| When Watching High Definition Pictures: | | | |
|  (16:9 Signal) |  | Full 1 | Plays a 16:9 image faithfully showing 95% of the size. |
| |  | Full 2 | Plays a 16:9 image faithfully showing 100% of the size. *In some cases, the screen display has unnecessary blanking or noise at the edges. |
|  (4:3 Image in 16:9 Frame) |  | Zoom | Plays a 4:3 image in 16:9 frame by enlarging a 4:3 image to fill the 16:9 screen. |



FUNCTION (continued)

Size Switching (continued)

HDMI/Composite Signal Input (continued)

● Position Adjustment

Vertical picture position can be adjusted for **Panoramic 1**, **Zoom 1** and **Zoom 2** mode as follows.

1. Press the  button while operating the picture size display.
2. "Position" display will appear.
3. Adjust the position using the  button.

The adjustment ranges of each picture size are as shown below.

| Display Size | Adjustable Range |
|----------------|------------------|
| Panoramic 1 | -12~+12 |
| Zoom 1, Zoom 2 | -31~+31 |



⚠ CAUTION

Using a wide-screen monitor

- The monitor has a screen mode selection feature. If an incompatible screen mode is selected to play certain software, such as a TV program, the image would appear different from the original. Take this into consideration when making screen mode choices.
- Use of the wide feature displaying enlarged pictures in coffee shops, hotel and other establishments for commercial or public viewing purposes could infringe on the copyright holder's rights, which are protected by Copyright Law.
- When a normal 4:3 image (not wide screen) is displayed over the entire screen in the Panoramic mode, the peripheral image may disappear partly and/or appear distorted in some cases. Use 4:3 mode to view the image reflecting the original intention.

RGB Signal Input

● Display Size

You can select a suitable size depending on the resolution.



* Real mode gives the image with same shapes as that of a computer monitor (neither compression nor stretching). This mode is not available if the input signal is 1280 x 1024 (SXGA) in the UT32-MH700A model.

Display Area Selection Diagram



| Resolution Display | Input signal | Full display | | |
|---|--------------|--------------|--------|---------------------------|
| | | Full | Normal | Circular display Real* |
| 640 X 480 (VGA) 800 X 600 (SVGA) 1024 X 768 (XGA) 1280 X 1024 (SXGA) | | | | |
| 640 X 400 (VGA) 1280 X 768 (WXGA) 1360 X 768 (WXGA) | | | | |

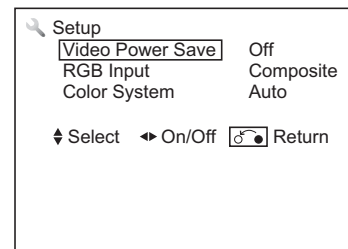
FUNCTION (continued)

Power Save Mode

When HDMI/Composite Input is Selected

You are provided the function to save power consumption when no signal is detected in HDMI/Composite input. Set to On in “Video Power Save” from the Setup Menu, which leads to the power save mode.

1. Press the  button when in HDMI/Composite input.
2. Select the “Setup” menu and press the  button.
3. Select “Video Power Save”.





| | |
|------------------|-----|
| Video Power Save | Off |
| | On |

| When no signal is detected | | When signal is input during On in “Video Power Save” |
|----------------------------|-----------------|--|
| Condition | Indicating Lamp | |
| Power Save | Orange | Turns On automatically. |

When RGB Input is Selected

When the unit is connected to a VESA DPMS computer, the Power Save mode (Operation mode : Off) can be set to be activated automatically when the computer is not being used, in order to reduce the power consumption of the unit.

| RGB sync signal | Horizontal | Yes | No | Yes | No |
|-----------------|------------|-------------------------|-----|--------------------|----|
| | Vertical | Yes | Yes | No | No |
| PC signal | | Active (normal display) | | Blank (no display) | |
| Operation mode | | On | | Off | |
| Indicating lamp | | Lights green | | Lights orange | |

- To return to operating status, operate the personal computer, or press either the **Input Select** button on the control panel or the  or  button on the remote control.


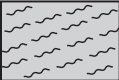


TROUBLESHOOTING

Before calling a service technician, check the following tables first. If the problem cannot be solved with the suggested procedures, contact your local dealer. For your safety, NEVER try to repair the product yourself.

When the Following Messages Appear on the Screen


| Message | Condition / Action | Page |
|--------------------|--|---------------|
| Power Save | This indicates it is in Power Save mode. (in HDMI/RGB/Composite input) This message appears 5 seconds before Power Save mode starts. The indicating lamp lights in orange. | 32 |
| No Sync. Signal | The unit cannot detect any signals from any input terminals. <ul style="list-style-type: none"> • Check if the cable is connected correctly and firmly. • Check if the power of any external equipment is ON. • Check if the input selection matches the connection terminal. • Check if the PC is in Power Save mode or not. | 14 ~ 16 32 |
| Invalid Scan Freq. | The unit receives unsupported signals. <ul style="list-style-type: none"> • Check if the cable is connected correctly and firmly. • Check if the input signal is compatible with the specification of the monitor. | 36, 38 |
| Not Available | This shows when the selected operation is not available. | |
| Auto Adjusting | This indicates that it is in the process of auto adjusting. (in RGB mode) | 29 |

Symptom and Checklist

| Symptoms | | Checklist | Page |
|---|---|---|--------------------------|
| • No picture - no sound | | <ul style="list-style-type: none"> • Check the Indicating lamp status (Off, Red, Green, or Orange). • Check the connection of the power cord and/or other cables. • Check if the power of the unit or external equipment is ON. • Check if the correct mode is selected. • Check if the unit is in "Standby mode" or "Power Save mode". • Adjust the values in "Picture menu" and "Audio menu". | 14 ~ 18 20, 32 |
| • Multiple images-normal sound |  | <ul style="list-style-type: none"> • Check the connections to external equipment. | 14 ~ 16 |
| • Intermittent interference |  | <ul style="list-style-type: none"> • Check if the source of interference is shielded correctly. • Move these kinds of electrical devices away from the unit. | |
| • Normal picture, but no sound | | <ul style="list-style-type: none"> • Check the volume level. • Check if the  button has been pressed or not. • Check the connections to external equipment. • Connect the PC (RGB)/DVI Analog Audio Input terminal if the Input Signal Screen Display shows "DVI" by pressing the  button. • Check if "Speakers" in "Audio" menu is "On" | 19, 20 |
| • No picture - normal sound | | <ul style="list-style-type: none"> • Check the value level of "Brightness" and "Contrast" in "Picture Menu". • Check the connections to external equipment. • Check the setting of "RGB Input" in "Setup" menu in RGB or Composite input. | 14 ~ 16 20 27 ~ 29 |
| • The remote control does not work. | | <ul style="list-style-type: none"> • Check if the batteries are installed correctly. • The batteries might be exhausted. Replace them with new ones. • Remove all obstructions from in front of the sensor window on the unit. • Check if the buttons on the control panel are working. | 12, 13 |
| • The buttons on both the remote control and control panel do not work. | | <ul style="list-style-type: none"> • Unplug and connect the power cord again. • Hold down the Reset button on the control panel for over a second. | 11 |

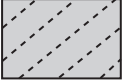

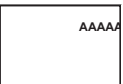

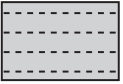



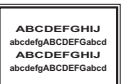




TROUBLESHOOTING (continued)

Symptom and Checklist (continued)

| Symptoms | Checklist | Page |
|---|---|---------------|
| <ul style="list-style-type: none"> No color-normal sound | <ul style="list-style-type: none"> Check the connections to external equipment. Check "Color System" in Composite input. | 14 ~ 16 |
| <ul style="list-style-type: none"> No picture The Indicating lamp → Off | <ul style="list-style-type: none"> Check if the power cord is plugged into the socket securely. Check if the power switch on the unit is on. | 17, 18 |
| <ul style="list-style-type: none"> No picture The Indicating lamp → Orange It means that the unit is in "Power Save mode". | <ul style="list-style-type: none"> Check if all the cables to external equipment are connected correctly and securely. Check if the power to the external equipment is ON. Check if the HDMI mode has been selected correctly. Check if the PC is in Power Save mode or not. Refer to "Power Save Mode" and "When the Following Messages Appears on the Screen". | 32 |
| <ul style="list-style-type: none"> No picture The indicating lamp → Green | <ul style="list-style-type: none"> Check if the signal cable is connected correctly and securely. Adjust the level of Brightness and Contrast lower. | 14 ~ 16 |
| <ul style="list-style-type: none"> The top of the unit and surface of the panel heat up. | <ul style="list-style-type: none"> This may occur if you use the unit for a long time. Unplug the power cord for a while. Please note that this is not a malfunction. | 36, 38 |
| <ul style="list-style-type: none"> Some screen display sizes cannot be switched in. | <ul style="list-style-type: none"> Check the signal status by pressing the  button on the remote control. The available screen display size is different depending on the current signal status. | 20 30, 31 |
| <ul style="list-style-type: none"> Image cannot be displayed from HDMI input. | <ul style="list-style-type: none"> Check if the cables are connected correctly. Check the output format of the equipment. (Please refer to "CONNECTION" and "Recommended Signal List".) | 14 36 ~ 38 |
| <ul style="list-style-type: none"> The image and audio are mismatched when in RGB or HDMI-DVI mode. | <ul style="list-style-type: none"> Check if the PC (RGB)/DVI Analog Audio Input terminal is connected to the same external device. | 14, 16 |

TROUBLESHOOTING (continued)

Symptom and Checklist (continued)

| Symptoms | | Checklist | Page |
|--|---|--|------------|
| <ul style="list-style-type: none"> The image on the screen is moving in an oblique direction. (RGB input mode only) |  | <ul style="list-style-type: none"> Adjust "Horizontal Clock" and "Clock Phase". | 29 |
| <ul style="list-style-type: none"> The coarse horizontal stripes can be seen in full-display mode. (RGB input mode only) |  | <ul style="list-style-type: none"> Adjust "Horizontal Clock". | 29 |
| <ul style="list-style-type: none"> Part of the image is missing. (RGB input mode only) |  | <ul style="list-style-type: none"> Try "Auto Adjust" or press the  button on the remote control. Check if the input signal is compatible with the signals on "Recommended Signal List". Check if "WXGA Mode" is set correctly. | 29, 38 |
| <ul style="list-style-type: none"> The horizontal stripes are moving vertically with flickering screen. (RGB input mode only) |  | <ul style="list-style-type: none"> Check the signal status of the PC by pressing the  button on the remote control. | |
| <ul style="list-style-type: none"> When the characters are displayed on the whole screen, the vertical stripes appear and some of the characters are blurred. (RGB input mode only) |  | <ul style="list-style-type: none"> Try "Auto Adjust" or press the  button on the remote control. If the display condition is not improved with "Auto Adjust", adjust "Horizontal Clock". | 29 |
| <ul style="list-style-type: none"> When the letter string is displayed in full-screen, all of the characters on the screen are blurred. (RGB input mode only) |  | <ul style="list-style-type: none"> Try "Auto Adjust" or press the  button on the remote control. If the condition is not improved with "Auto Adjust", adjust "Clock Phase" until you get the clearest image. | 29 |
| <ul style="list-style-type: none"> When small patterns are displayed on the screen, the entire screen is flickering. (RGB input mode only) |  | <ul style="list-style-type: none"> Try "Auto Adjust" or press the  button on the remote control. If the condition is not improved with "Auto Adjust", adjust "Clock Phase" until you get a flicker-free display. | 29 |
| <ul style="list-style-type: none"> Image cannot be displayed in the correct position. (RGB input mode only) | | <ul style="list-style-type: none"> Press the  button to check if the input signal of the displayed image is compatible with the specification of the unit. | 20, 36, 38 |

PRODUCT SPECIFICATIONS

| SPECIFICATION | | | |
|-------------------------------|--------------------|--|--|
| Panel | Display dimensions | Approx. 32 inches (698 (H) x 392 (V) mm, diagonal 801mm) | Approx. 37 inches (820 (H) x 461 (V) mm, diagonal 941mm) |
| | Resolution | 1366 (H) x 768 (V) pixels | 1920 (H) x 1080 (V) pixels |
| Net dimensions | | including Stand: 814(W)x587(H)x249(D) mm excluding Stand: 814(W)x538(H)x39*(D) mm *thinnest part: 35mm | including Stand: 936(W)x657(H)x310(D) mm excluding Stand: 936(W)x607(H)x39*(D) mm *thinnest part: 35mm |
| Net weight | | including Stand: 13.5 kg excluding Stand: 10.9 kg | including Stand: 17.4 kg excluding Stand: 14.6 kg |
| Ambient conditions | Temperature | Operating : 5°C to 35°C, Storage : 0°C to 40°C | |
| | Relative humidity | Operating : 20% to 80%, Storage : 20% to 90% (non-condensing) | |
| Power supply | | AC110 - 240V, 50/60Hz | |
| Power consumption/ at standby | | 137W/<0.8W | 178W/<0.8W |
| Audio output | | speaker 6W + 6W | speaker 6W + 6W |
| (HDMI input) | | | |
| Input terminals | | HDMI : HDMI input terminal Audio input terminal (Mini-pin)* | |
| Input signals | | HDMI: VGA/60, 480i, 576i, 480p, 576p, 720p/50, 720p/60, 1080i/50, 1080i/60, 1080p/50, 1080p/60, 1080p/24 | |
| (RGB/Composite input) | | | |
| Input terminals | | Analog RGB input terminal (D-sub 15 pin) Audio input terminal (Mini-pin)* | |
| Input signals | | 0.7 Vp-p, analog RGB (Recommended Signal) Composite video: PAL, SECAM, NTSC3.58, NTSC4.43, PAL60, PAL-M, PAL-N | |
| Sync signals | | H/V separate, TTL level [2KΩ] | |

• The unit takes at least 30 minutes to attain the status of optimal picture quality.

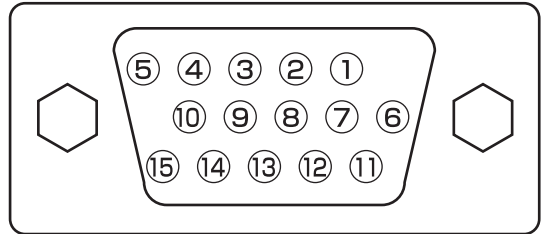
* This analog audio input terminal can be used for PC (RGB) or HDMI-DVI.

PRODUCT SPECIFICATIONS (continued)

Signal Input

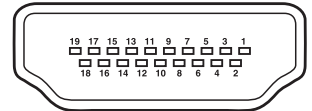
RGB terminal (D-sub 15 pin connector)

| Pin | Input signal |
|-----|---------------------|
| 1 | R |
| 2 | G/Composite |
| 3 | B |
| 4 | No connection |
| 5 | No connection |
| 6 | R.GND |
| 7 | G.GND/Composite.GND |
| 8 | B.GND |
| 9 | +5V |
| 10 | GND |
| 11 | No connection |
| 12 | [SDA] |
| 13 | H.sync |
| 14 | V.sync. |
| 15 | [SCL] |



HDMI connector pin specifications

| Pin | Input signal | Pin | Input signal |
|-----|-------------------|-----|--------------------------|
| 1 | TMDS Data2+ | 11 | TMDS Clock Shield |
| 2 | TMDS Data2 Shield | 12 | TMDS Clock- |
| 3 | TMDS Data2- | 13 | CEC |
| 4 | TMDS Data1+ | 14 | Reserved(N.C. on device) |
| 5 | TMDS Data1 Shield | 15 | SCL |
| 6 | TMDS Data1- | 16 | SDA |
| 7 | TMDS Data0+ | 17 | DDC/CEC Ground |
| 8 | TMDS Data0 Shield | 18 | +5V Power |
| 9 | TMDS Data0- | 19 | Hot Plug Detect |
| 10 | TMDS Clock+ | | |



PRODUCT SPECIFICATIONS (continued)

Recommended Signal List

With HDMI input

| No. | Signal mode | | | Horizontal frequency (kHz) | Dot clock frequency (MHz) | Remarks |
|-----|-------------|-----------------|-------------------------|----------------------------|---------------------------|----------|
| | Signal Name | Resolution | Vertical frequency (Hz) | | | |
| 1 | VGA | 640 X 480 | 59.94 | 31.47 | 25.18 | CEA-861D |
| 2 | 576i | 720(1440) X 576 | 50.00 | 15.63 | 27.00 | CEA-861D |
| 3 | 480i | 720(1440) X 480 | 59.94 | 15.73 | 27.00 | CEA-861D |
| 4 | 576p | 720 X 576 | 50.00 | 31.25 | 27.00 | CEA-861D |
| 5 | 480p | 720 X 480 | 59.94 | 31.47 | 27.00 | CEA-861D |
| 6 | 1080i/50 | 1920 X 1080 | 50.00 | 28.13 | 74.25 | CEA-861D |
| 7 | 1080i/60 | 1920 X 1080 | 60.00 | 33.75 | 74.25 | CEA-861D |
| 8 | 720p/50 | 1280 X 720 | 50.00 | 37.50 | 74.25 | CEA-861D |
| 9 | 720p/60 | 1280 X 720 | 60.00 | 45.00 | 74.25 | CEA-861D |
| 10 | 1080p/50 | 1920 X 1080 | 50.00 | 56.25 | 148.50 | CEA-861D |
| 11 | 1080p/60 | 1920 X 1080 | 60.00 | 67.50 | 148.50 | CEA-861D |
| 12 | 1080p/24 | 1920 X 1080 | 24.00 | 27.00 | 74.25 | CEA-861D |

With RGB input

| Timing Name | Horizontal Frequency (kHz) | Vertical Frequency (Hz) | Pixel Frequency (MHz) | Sync Polarity (H/V) | Remarks |
|--------------------|----------------------------|-------------------------|-----------------------|---------------------|-----------------------------|
| 640 x 400 @ 70Hz | 31.469 | 70.086 | 25.175 | - / + | VGA |
| 640 x 480 @ 60Hz | 31.469 | 59.940 | 25.175 | - / - | VGA |
| 800 x 600 @ 60Hz | 37.879 | 60.317 | 40.000 | + / + | VESA |
| 1024 x 768 @ 60Hz | 48.363 | 60.004 | 65.000 | - / - | VESA |
| 1280 x 768 @ 60Hz | 47.776 | 59.870 | 79.500 | - / + | VESA / WXGA Mode : 1280x768 |
| 1280 x 1024 @ 60Hz | 63.981 | 60.020 | 108.000 | + / + | VESA |
| 1360 x 768 @ 60Hz | 47.712 | 60.015 | 85.500 | + / + | VESA / WXGA Mode : 1360x768 |

- The type of video board or the connecting cable used may not allow for correct displays adjustment of Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase.
- The unit differentiates the signal modes according to the horizontal and vertical frequencies and the horizontal and vertical sync signal polarities. Note that different signals having all these elements alike may be handled as the same signal.
- For UT32-MH700A model, the image with 1280 x 1024 @ 60Hz is degraded vertically.