

# USER'S MANUAL

Thank you very much for purchasing the HITACHI LCD Monitor. Before using your monitor, please carefully read the "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" so you will know how to operate the monitor properly. Keep this manual in a safe place. You will find it useful in the future.

## Notes on Installation Work:

This product is marketed assuming that it is installed by qualified personnel with enough skill and competence. Always have an installation specialist or your dealer install and set up the product. HITACHI cannot assume liabilities for damage caused by mistake in installation or mounting, misuse, modification or a natural disaster.

## Note for Dealers:

After installation, be sure to deliver this manual to the customer and explain to the customer how to handle the product.



## Important

Please read this User's Manual thoroughly, especially the Safety Instructions on Page 3 to 6. Mis-use may cause damage to your LCD monitor, which could shorten its lifespan, or cause injury to yourself. Should you encounter any difficulty in the set-up or operation of your monitor, firstly refer to the Troubleshooting guide at the rear of this manual.

In the unlikely event of a problem occurring with your LCD monitor, switch off at the mains sockets, pull out the plugs, and contact your dealer immediately.

### CAUTION

Under no circumstances remove the rear cover of your LCD monitor.

Never guess or take any chances with electrical equipment of any kind - it is better to be safe than sorry!

### Software Notice

It is prohibited for the end user of this product to copy, reverse engineer or reverse compile the software included therein, save to the extent permitted by law.

### LCD Monitor

After the LCD monitor has been on for any length of time, you will notice that the screen becomes warm. Please note that this is normal.

Sometimes the screen might have some tiny bright or dark spots. Please note that this is normal.

### CAUTION

To prevent scratches or damages to the LCD screen, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. A mild soap may be used if the screen is extremely dirty. Do not use harsh or abrasive cleaners!

### CAUTION

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.

Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

## FEATURES

### Large-screen, high-definition LCD panel

The 32-inch color LCD panel with a resolution of 1366(H) X 768(V) pixels, creates a high-definition, large-screen (aspect ratio:16:9) and low-profile flat display. Free from electromagnetic interferences from geomagnetic sources and ambient power lines, the panel produces high-quality display images free from color misconvergence and display distortion.

### High Performance Digital Processor

A wide range of input signals can be handed, including composite, component, and HDMI.

High Definition Digital Processor creates the fine-textured image with dynamic contrast.

In addition, it corresponds to a broad array of personal computer signals, from 640 x 400 and 640 x 480 VGA to 1600 x 1200 UXGA. (Analog Input)

### Easy-to-use remote control and on screen display system

The remote control included eases the work of setting display controls. Further, the on-screen display system, displays the status of signal reception and display control settings in an easy-to-view fashion.

### Power saving system

The International ENERGY STAR® power saver feature saves power consumption automatically when input signals are not available. When connected to a VESA DPMS-compliant PC, the monitor cuts its power consumption while it is idle.

### Connecting to an Audio Visual Device

- Two composite/S terminals<sup>\*1</sup>, three composite terminals<sup>\*2</sup>, two component terminals<sup>\*2</sup> and a HDMI terminal have been added. A composite video output terminal is also provided as a monitoring output.

<sup>\*1</sup> A composite/S terminal = A side input.

<sup>\*2</sup> If two composite terminal and two component terminal are used at the same time, the component terminal would govern.

- A wide range of devices can also be connected besides personal computers.
- A RGB input is possible to switch to component signals from the Menu screen.

### Power Swivel Feature

It allows to turn the LCD monitor left or right within  $\pm 30$  degree using the remote control.

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### Note about This Manual

- The information in this manual is subject to change without notice.
- While meticulous care has been taken in the preparation of this manual, you are requested to notify your dealer or us should you have any comments, views or questions about our product.
- Fully understand the prerequisites to using the product, such as hardware and software specifications and constraints, in using the product. We are not held liable for damages caused by improper handling of the product.
- Reproduction of this manual in whole or in part without our prior written permission is prohibited.
- The product names mentioned in this manual may be trademarks or registered trademarks of their respective owners.

# SAFETY INSTRUCTIONS

This LCD monitor has been designed and manufactured to meet international safety standards, but like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. Before using this product, please read and understand the Safety Instructions thoroughly to ensure correct usage, and follow all the instructions.

## About the Symbols

Various symbols are used in this manual, the user's manual and on the product itself to ensure correct usage, to prevent danger to the user and others, and to prevent property damage. The meanings of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.

-  **WARNING** This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.
-  **CAUTION** This symbol indicates information that, if ignored, could possibly result in personal injury or physical damage due to incorrect handling.

### Typical Symbols

-  This symbol indicates an additional warning (including cautions). An illustration is provided to clarify the contents.
-  This symbol indicates a prohibited action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that disassembly is prohibited).
-  This symbol indicates a compulsory action. The contents will be clearly indicated in an illustration or nearby (the symbol to the left indicates that the power plug should be disconnected from the power outlet).

### **WARNING**

Never use the monitor if a problem should occur. Abnormal operations such as smoke, strange odor, no image, no sound, excessive sound, damaged casing, elements, cables, penetration of liquids or foreign matter, etc. can cause a fire or electrical shock. In such case, immediately turn off the power switch and then disconnect the power plug from the power outlet. After making sure that the smoke or odor has stopped, contact your dealer. Never attempt to make repairs yourself because this could be dangerous.



Do not insert liquids or foreign objects. Penetration of liquids or foreign objects could result in fire or electrical shock. Use special caution in households where children are present.



If liquids or foreign objects should enter the monitor, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.

- Do not place the monitor in a bathroom.
- Do not expose the monitor to rain or moisture.
- Do not place flower vases, pots, cups, cosmetics, liquids such as water, etc on or around the monitor.
- Do not place metals, combustibles, etc on or around the monitor.



Never disassemble or modify the monitor. The monitor contains high voltage components. Modification could result in fire or electrical shock.

- Never remove any fixed cover.

Do not give the monitor any shock or impact. If the monitor should be shocked and/or broken, it could result in an injury, and continued use could result in fire or electrical shock. If the glass panel is broken or damaged, immediately turn off the power switch, disconnect the power plug from the power outlet and contact your dealer.



Do not place the monitor on an unstable surface. If the monitor should be dropped and/or broken, it could result in an injury, and continued use could result in fire or electrical shock.



- Do not place the monitor on an unstable, slant or vibrant surface such as a wobbly or inclined stand.

Do not obstruct the ventilation of the monitor. If the ventilation is obstructed during the operation of the monitor or just after switching off the power, it could result in damage and shorten the lifespan of your monitor due to overheating. Make sure there is ample ventilation.



- Keep a space of 100mm (10cm) or more between the sides, rear and top of the monitor and other objects such as walls.
- Do not place anything around ventilation openings of the monitor.
- Never block ventilation openings.
- Do not put the LCD screen side up.
- Do not cover the monitor with a tablecloth, etc.
- Do not place the monitor on a carpet or bedding, or near a curtain.

Use only the correct power outlet. Incorrect power supply could result in fire or electrical shock. Use only the correct power outlet depending on the indication on the monitor and the safety standard.



- The enclosed power cord must be used depending on the power outlet to be used.

## SAFETY INSTRUCTIONS (continued)

### About the Symbols (continued)

#### WARNING

Be cautious of the power cord connection.

Incorrect connection of the power cord could result in fire or electrical shock.

- Do not touch the power cord with a wet hand.
- Check that the connecting portion of the power cord is clean (with no dust), before using. Use a soft and dry cloth to clean the power plug.
- Insert the power plug into a power outlet firmly. Avoid using a loose, unsound outlet or contact failure.
- Do not cut off the fitted power plug, the removal of which could lead to impaired performance. If you wish to extend the lead, obtain an appropriate extension lead or consult your dealer.
- Should you require replacing the fuse in the molded plug with a new fuse, then please replace with new one of the same value, type and approval as the original. Ensure the fuse cover is returned to its original position.



Surely connect the ground wire.

Be sure to keep safety ground connection.

Connect the ground terminal of AC inlet of this monitor with the ground terminal provided at the power outlet using the enclosed power cord. If the provided plug does not fit your outlet, consult an electrician for replacement of the obsolete outlet.

Be careful in handling the power cord and external connection cables.

If you keep using a damaged power cord or cables, it can cause a fire or electrical shock. Do not apply too much heat, pressure or tension to the power cord and cables.

If the power cord or cables are damaged (exposed or broken core wires, etc.), contact your dealer.

- Do not place the monitor or heavy objects on the power cord and cables. Also, do not place a spread, cover, etc, over them because this could result in the inadvertent placing of heavy objects on the concealed power cord or cables.
- Do not pull the power cord and cables. When connecting and disconnecting the power cord or cables, do it with your hand holding the plug or connector.
- Do not place the cord near the heater.
- Do not touch the power plug just after disconnecting it from the power outlet to prevent electric shock.
- Do not touch the power plug when lightning is close to you.
- Avoid coiling the power cord and bending it sharply.
- Protect the power cord from being walked on, pinched particularly at plugs, conveniences receptacles, and the point where they exit from the apparatus.
- Do not modify the power cord.



Be careful in handling the battery of the remote control.

Incorrect handling of the battery could result in fire or personal injury. The battery may explode if not handled properly.

- Keep the battery away from children and pets. If swallowed consult a physician immediately for emergency treatment.
- Do not allow the battery to be exposed to fire or water.
- Avoid fire or high-temperature environment.
- Do not hold the battery with metallic tweezers.
- Keep the battery in a dark, cool and dry place.
- Do not short circuit the battery.
- Do not recharge, disassemble or solder the battery.
- Do not physically impact the battery.
- Use only the battery specified in the manual of this monitor.
- Make sure the plus and minus terminals are correctly aligned when loading the battery.
- If you observe a leakage of the battery, wipe out the liquid and then replace the battery. If the liquid adheres your body or clothes, rinse well with water.
- Obey the local laws on disposing the battery.



## SAFETY INSTRUCTIONS (continued)

### About the Symbols (continued)

#### CAUTION

Be careful in moving the monitor.

Neglect could result in an injury or damage.

- Do not move the monitor during use. Before moving, disconnect the power plug and all external connections.
- You are advised to move the monitor with two persons.
- Avoid any impact or shock to the monitor; particularly take care of glass screen.



Do not put anything on top of the monitor.

Placing anything on the monitor could result in loss of balance or falling, and cause an injury or damage. Use special caution in households where children are present.



Avoid a humid or dusty place.

Placing the monitor in a smoke, a highly humid, dusty place, oily soot or corrosive gas could result in fire or electrical shock.

- Do not place near the kitchen, a humidifier or other place where there is oil, smoke or humidity.



Avoid a high temperature environment.

The heat could have adverse influence on the monitor and other parts, and could result in transformation, melting or fire.

- Do not place the monitor, the remote control and other parts in direct sunlight or near a hot object such as heater, etc.
- Do not put the monitor in a place where the temperature is widely changing.



Remove the power cord for complete separation.

- For safety purposes, disconnect the power cord if the monitor is not to be used for prolonged periods of time.
- Before cleaning, turn off and unplug the monitor. Neglect could result in fire or electrical shock.



Disconnect the plug from the power outlet.

Be careful in operating power swivel.

Placing hands or faces near the monitor while operating the swivel function could cause a physical injury or damage. Use special caution in households where children are present.



#### PRECAUTIONS

##### Installation environment

Do not obstruct a ventilation hole.

Do not put the monitor on carpet or blanket, or near a curtain which has a possibility of obstructing a ventilation hole of the monitor.

Do not put the monitor in the following places.

- Hot places such as near heater, place exposed to the direct rays of the sun.
- A place where the temperature is widely changing.
- Places with soot, dust or high humidity.
- Poor air ventilation place.
- Place near fire.
- A wet place such as bathroom, or shower room.
- Place where you can trip over it.
- Always vibrating or strongly vibrating places.
- Distorted or unstable places.

Please avoid installing the monitor directly on the wooden floor. Depending on the quality and the condition of the floor, the monitor stand may stick to the floor face, and the surface could come off when the monitor is lifted up.

##### How to view the monitor

If you use the monitor in too dark a room, your eyes may become tired.

Please use it in a reasonably bright room.

Avoid direct rays of the sun to the screen in order to prevent eye fatigue.

Your eyes will get fatigued after viewing the monitor for long period of time.

Relax your eyes by viewing away from the monitor from time to time.

Please watch the monitor in downward direction.

##### How to clean the LCD screen panel of the monitor

Before cleaning the monitor, turn off the monitor and disconnect the power plug from the power outlet.

To prevent scratching or damaging the LCD screen face, do not knock or rub the surface with sharp or hard objects. Clean the screen with a soft cloth moistened with warm water and dry with a soft cloth. If it is not enough, then use a cloth with mild detergent. Do not use harsh or abrasive cleaners.

##### How to clean the cabinet of the monitor

Use a soft cloth to clean the cabinet and control panel of the monitor. When excessively soiled dilute a neutral detergent in water, wet and wring out the soft cloth and afterward wipe with a dry soft cloth.

Never use acid/alkaline detergent, alcoholic detergent, abrasive cleaner, powder soap, OA cleaner, car wax, glass cleaner, etc. especially because they would cause discoloration, scratches or cracks.

## SAFETY INSTRUCTIONS (continued)

### About the Symbols (continued)

#### Prevention of an obstacle to Radio receivers

This monitor has been designed pursuant to the international EMI standards. This is to prevent a problem to Radio receivers.

- Keep the monitor away from Radio.
- Adjust Radio antennas in order for the monitor not to receive interference.
- The antenna cable of Radio should be kept away from the monitor.
- Use a coaxial cable for antenna.

You can check if this monitor influences Radio receivers by turning off all other equipment other than the monitor.

If you find a problem receiving Radio when using the monitor, check the instructions mentioned above.

#### Precautions for the cable connection

- Do ensure that all connections, (including the power plug, extension leads and interconnections between the pieces of equipment), are properly made and in accordance with the manufacturers instructions. Switch off and withdraw the power plug before making or changing connections.
- Confirm the connector is fixed tightly when the signal cable is connected.  
Also confirm the screws on the connector are tightened.
- Plug the power cord of the monitor into a different socket from that for other equipment, such as Radio etc..
- Use a plug with ground terminal and make sure that it connects to the ground.

#### Precaution during transportation

Please pay attention when you transport this monitor because it is heavy.

Furthermore, use the original carton box and its packaging materials when the monitor is transported.

Failure to transport the monitor in any carton except the original carton may result in damage to the monitor.

Save the original carton box and all packing material.

Do not push the monitor over sideways as transporting it. It may cause damage on the panel glass, increase of the screen defects and/or damage of the internal fluorescent lamps.

#### Do not physically impact the remote control.

A physical impact could cause damage or malfunction of the remote control.

- Take care not to drop the remote control.
- Do not place heavy objects on the remote control.

#### Avoid strong rays.

Any strong rays (such as direct sun rays or room lighting) onto the remote control sensors could invalidate the remote control.

#### Avoid radio interference.

Any interfering radiation could cause distorted images or noises.

- Avoid radio generator such as a mobile telephone, transceiver, etc. around the monitor.

#### Set the sound volume at a suitable level.

It is better to keep the volume level low and close the windows at night to protect the neighborhood environment.

#### Precautions for the installation

- Do not use makeshift stands and NEVER fix legs with wood screws - to ensure complete safety, always fit the manufacturers approved stand or legs with the fixings provided according to the instructions.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- This product is designed to comply with the recommended safety standards for tilt and stability. Do not apply excessive pulling force to the front, or top, of the cabinet that could cause the product to overturn resulting in product damage and/or personal injury.
- Follow instructions for wall, shelf or ceiling mounting as recommended by the manufacturer.
- Only use the attachments/accessories specified by the manufacturer.
- Consult your dealer if you are in any doubt about installation, operation or safety of your equipment.

#### Other precautions

- Do not leave equipment switched on when it is unattended unless it is specifically stated that it is designed for unattended operation or has a stand-by mode. Switch off using the switch on the equipment and show your family how to do this. Make special arrangements for infirm or handicapped people.
- Disposal of this product may require specific instructions pertaining to your resident region.
- Never guess or take any chances with electrical equipment of any kind - it is better to be safe than sorry!

## NOTES

### About screen defects

- High precision technology is used in the making of LCD panels but there may be dark spots (points that do not illuminate) and bright spots (points that are too bright) in some cases. These do not indicate a malfunction.

### About residual images

- In some cases, residual images may remain after the short-term display of still images is displayed. These will disappear in a few minutes and the display will return to normal. However, if used in high temperatures, it sometimes spends some tens of minutes to return to normal. Please note this is not a malfunction.

### About the panel screen

- LCD screens display images by illuminating fluorescent lamps inside the panel. Because of this, the temperature of the panel surface may rise in some cases. Also, LCD panels are made of finely processed glass, so please avoid pushing by fingers or hands and giving strong impact on the panel. It may cause damage to the LC cells, and/or there is danger of glass breakage.

### About the power swivel

- Do not put hands or faces close to the monitor while operating the swivel function. It could cause a physical injury. Use special caution in households where children are present. (Refer to Power Swivel shown on [23](#))

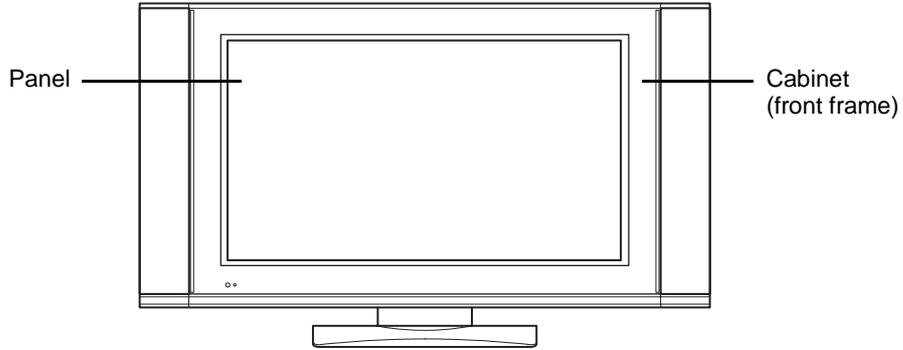
### Using in low temperatures

- The response speed of LCD panel becomes slow as the ambient temperature goes down. This feature may cause residual images in some cases, but this is not a malfunction. It will return to normal in a while after the temperature becomes normal.

# COMPONENT NAMES

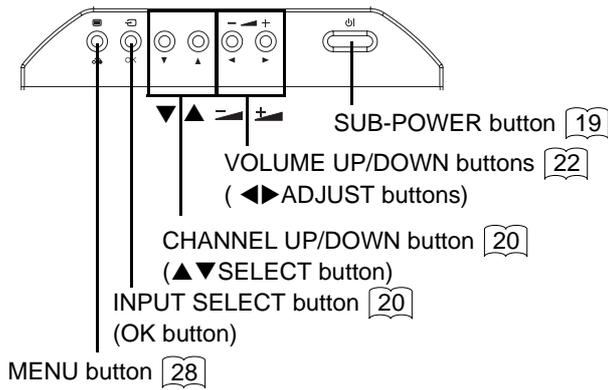
## Main Unit

Front



Control panel

- Adjustment buttons are located on the top.



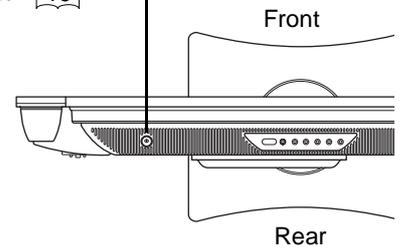
- ( ) indicates the function while the MENU is displayed on the screen.

Remote-control receiver 9

Indicating lamp 19

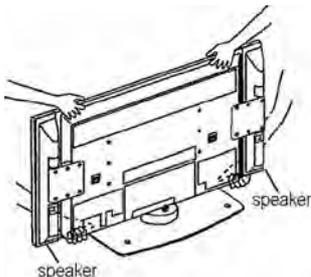
- The main power switch is located on the top.

Main power switch 19

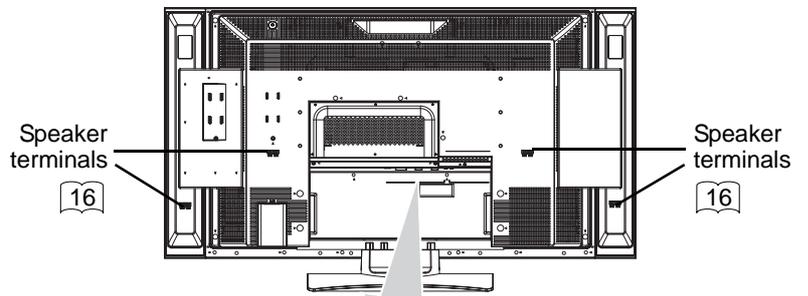


### Caution when moving the main unit

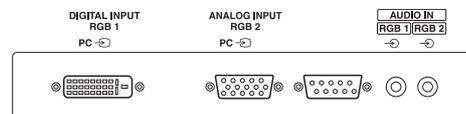
- As this product is heavy, whenever it is moved, two people are required to transport it safely.
- Whenever the unit is moved it should be gripped by holding the top of the monitor, and the unit should then be held at the base on both sides for stability as shown.
- Do not hold the speaker units while moving the set. The speaker holders may be separated off and the monitor may fall, and it may result in a physical injury.



Rear



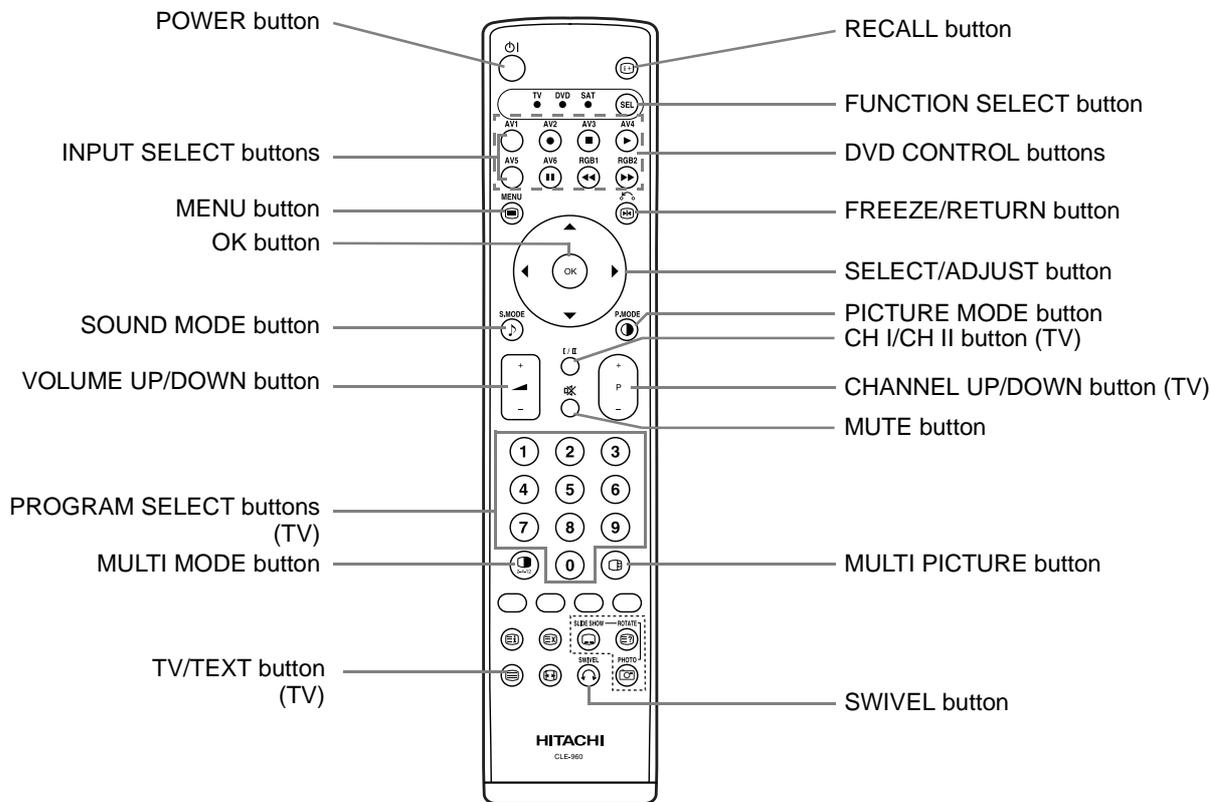
External device connection terminals



RGB input terminals 15

# COMPONENT NAMES (continued)

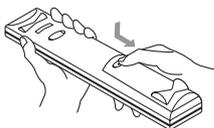
## Remote control



### Loading Batteries

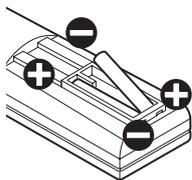
**1. Open the battery cover.**

- Slide back and remove the battery cover in the direction of the arrow.



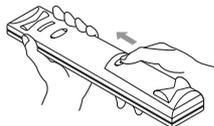
**2. Load batteries.**

- Load two Size AA batteries included observing the correct polarities.



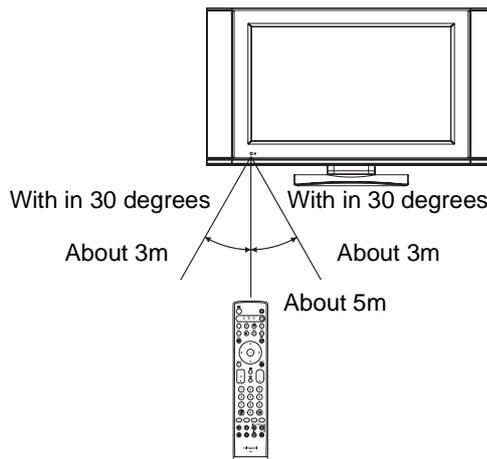
**3. Close the battery cover.**

- Replace the battery cover in the direction of the arrow and snap it back into place.



### Handling the Remote Control

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



**⚠ CAUTION**

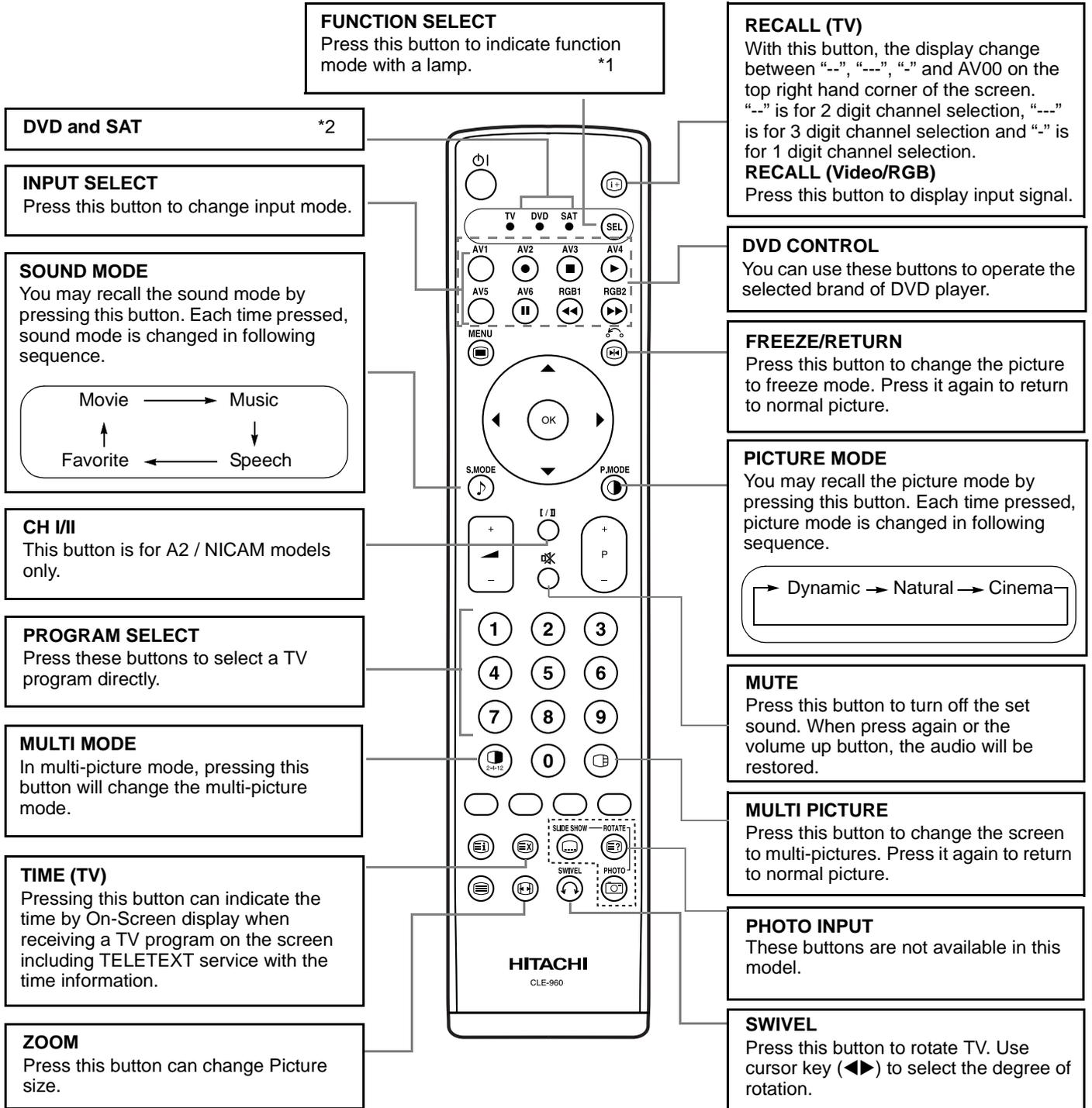
- Do not use new and old batteries together. The batteries could explode or leak, resulting in fires, physical injury, or stains.
- When loading batteries, observe their correct polarities as marked on the product. If loaded in the wrong direction, the batteries could explode or leak, resulting in fires, physical injury, or stains.

**ATTENTION**

- Do not drop or impact the remote control.
- Do not splash the remote control with water or put it on a wet object to avoid possible failures.
- Before leaving the remote control out of use for an extended period of time, remove the batteries from it.
- If the remote control begins to lack responsiveness, replace the batteries.
- Strong light such as direct sunlight impinging on the photoreceptor of the remote control can cause operational failure. Position this unit to avoid direct contact with such light.

## COMPONENT NAMES (continued)

### Remote control (continued)



**FUNCTION SELECT**  
Press this button to indicate function mode with a lamp. \*1

**RECALL (TV)**  
With this button, the display change between "--", "---", "-" and AV00 on the top right hand corner of the screen. "--" is for 2 digit channel selection, "---" is for 3 digit channel selection and "-" is for 1 digit channel selection.  
**RECALL (Video/RGB)**  
Press this button to display input signal.

**DVD CONTROL**  
You can use these buttons to operate the selected brand of DVD player.

**FREEZE/RETURN**  
Press this button to change the picture to freeze mode. Press it again to return to normal picture.

**PICTURE MODE**  
You may recall the picture mode by pressing this button. Each time pressed, picture mode is changed in following sequence.  
Dynamic → Natural → Cinema

**MUTE**  
Press this button to turn off the set sound. When press again or the volume up button, the audio will be restored.

**MULTI PICTURE**  
Press this button to change the screen to multi-pictures. Press it again to return to normal picture.

**PHOTO INPUT**  
These buttons are not available in this model.

**SWIVEL**  
Press this button to rotate TV. Use cursor key (◀▶) to select the degree of rotation.

**DVD and SAT** \*2

**INPUT SELECT**  
Press this button to change input mode.

**SOUND MODE**  
You may recall the sound mode by pressing this button. Each time pressed, sound mode is changed in following sequence.  
Movie → Music  
Favorite ← Speech

**CH I/II**  
This button is for A2 / NICAM models only.

**PROGRAM SELECT**  
Press these buttons to select a TV program directly.

**MULTI MODE**  
In multi-picture mode, pressing this button will change the multi-picture mode.

**TIME (TV)**  
Pressing this button can indicate the time by On-Screen display when receiving a TV program on the screen including TELETEXT service with the time information.

**ZOOM**  
Press this button can change Picture size.

**\*1 FUNCTION SELECT button**

This remote control has functions to control other makers of DVD player, DVD Recorder, and Set Top Box as well as this set. Press the (SEL) button to switch between TV, DVD and SAT modes. Each time the (SEL) button is pressed, the indicator will light below the function selected.

For details, refer to 43.

**\*2 LED**

The LED indicator lamps for DVD and SAT have 2 modes (Lit or blinking).

Lit: Indicates the mode that has been selected. Press the (SEL) button to change modes when the LED is lit.

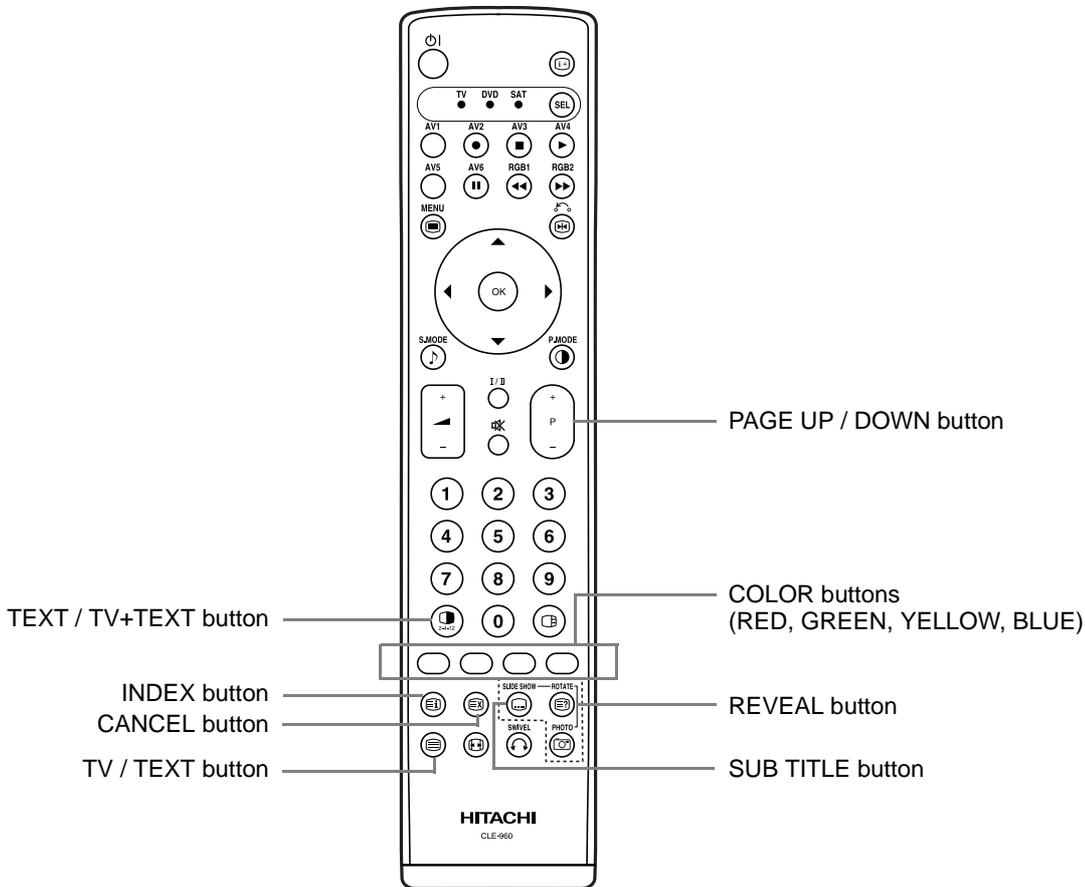
Blinking: Indicates that the maker of DVD or STB can be set. You can set up the maker of DVD or STB while the LED is still

blinking (30 sec). For details, refer to 43 44.

**COMPONENT NAMES (continued)**

**Remote control (continued)**

[Buttons for TELETEXT Mode]



**TELETEXT FUNCTION**

Buttons on Remote Control	Function
TV / TEXT	This switches the receiver between the TV mode and the TELETEXT mode.
TEXT / TV + TEXT	In TELETEXT mode, this button switches between TV+TEXT screen (split) and TELETEXT only.
INDEX	This selects the P100 (100 page).
SUB TITLE	Use this to access a subtitle service directly rather than through a TELETEXT service (subject to subtitle service broadcasting).
CANCEL	This allows the screen to return to the TV mode temporarily while searching for a required text page. When the required text page has been received, the page number will be displayed at the top left of the screen. Press the CANCEL button again to display the TELETEXT screen.
RED GREEN YELLOW BLUE	Each of these buttons selects a link page displayed at the lower part of the screen.
REVEAL	This allows hidden information (found on some teletext pages) to be displayed on the screen.
PAGE UP / DOWN	This button increases / decreases the TELETEXT page number.

**NOTE**

- Certain pages do not show linked pages at the bottom of the screen. To display linked pages, press the INDEX button.
- Refer to Teletext Language shown on 30

# INSTALLATION INSTRUCTIONS

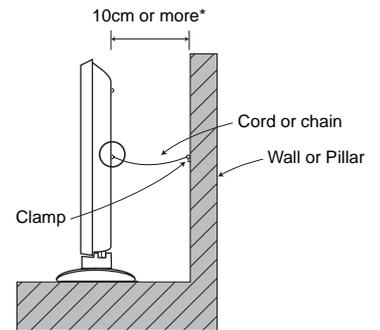
## Installation

### WARNING

Use one of the special mount units to install this product. A mount of insufficient strength or inadequate design can cause overturning or dropping and result in fire, electrical shock or injury. Please note that our company assumes absolutely no responsibility for personal injuries or property damage caused by use of other mount units or improper installation.

### CAUTION

- In order to prevent an internal temperature increase, maintain a space of 10cm (4 inches : For a desktop setup) or more between the sides and other objects such as walls, etc., so that the ventilation holes are not blocked. (\*)



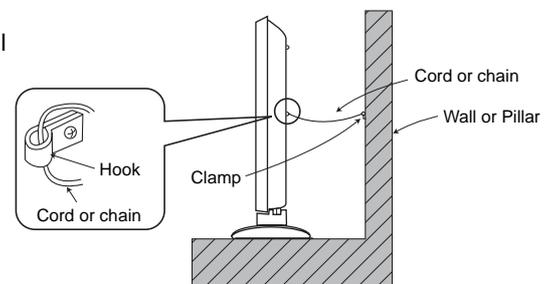
## Anti-tumble measures

### CAUTION

Have this unit mounted in a stable place. Take measures to prevent it from tumbling down to avoid possible physical injury.

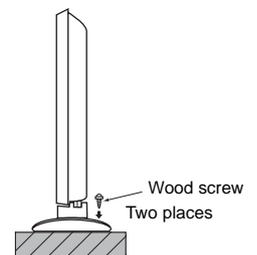
#### Securing to a wall or pillar

Using a commercially available cord, chain and clamp, secure the set to a firm wall or pillar.



#### Securing desktop

- (1) Using wood screws (two), fasten the set to the clamping screw holes on the rear of the stand as shown.
- (2) Using commercially available wood screws, secure the set firmly in position.



Read SAFETY INSTRUCTIONS (  to  ) carefully to ensure maximum safety before proceeding to these steps:

- **Choose an appropriate site and install the product on a level table where the stand is secure.**
  - Install the monitor to have ready access to a power socket available.
- **Make sure that the power switch of this device is turned off.**

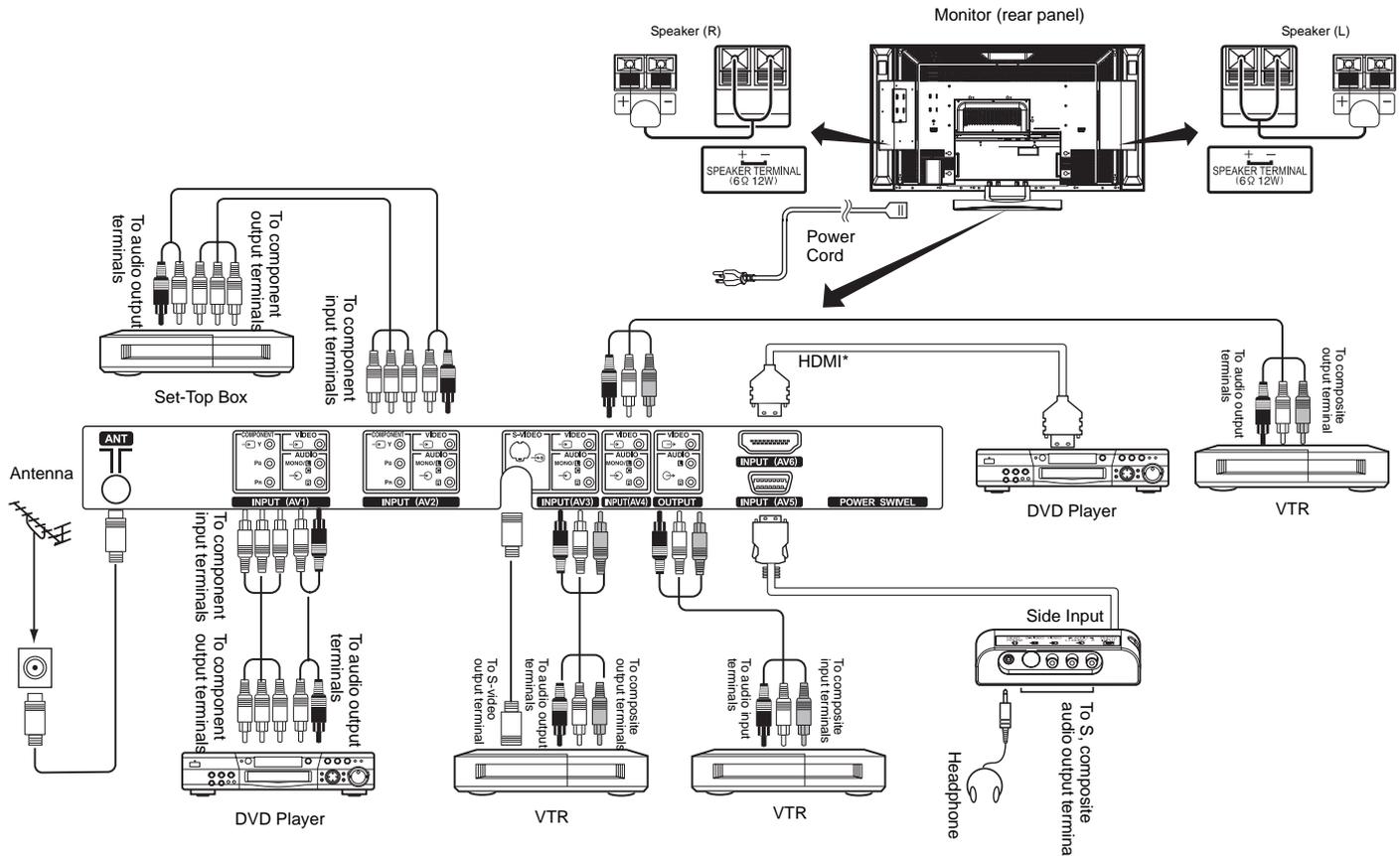
### CAUTION

Loosen a cord or chain enough while operating power swivel to avoid possible troubles.

## INSTALLATION INSTRUCTIONS (continued)

### Connection to an Audio Visual Device

- (1) Make sure that the power switch of the monitor is turned off.
- (2) Make sure that the power switch of the audio visual device is turned off.
- (3) Use a commercially available cable and connector to connect the signal input terminal on the rear panel of this device and the signal output terminal of the audio visual device.



#### [An example of connecting audio visual devices]

- If a component input terminal and a composite input terminal of AV1 and AV2 connect to the monitor at the same time, the component input would govern.
- If a video equipment with an S video output terminal is used, cabling by the S video cable is recommended to provide finer video quality. (If an S video input terminal and a video input terminal of AV3 or AV5 (side input) connect to the monitor at the same time, S video input would govern.)
- If the OUTPUT (Monitor) terminal is connected to an external monitor with a 75 Ohm terminal, it is possible to view the same image as on the main unit. But it is possible to monitor only the composite video signal from AV1 ~ AV5 input or the S video signal from AV3 and AV5 that is displayed on the screen at the time.
- Secure connecting cables to the stand with the provided clamps.

#### HDIM\*

- HDMI (High-Definition Multimedia Interface) is a digital interface based on DVI (Digital Visual Interface), which is an added function for audio visual equipment.
  - It does not have degradation by transmission since it is digital.
  - With only one cable, it is possible to transmit both picture signals and audio signals.
- In case of using analog audio when connecting with DVI-HDMI transformation connector, use analog audio terminal for AV1 input.

## INSTALLATION INSTRUCTIONS (continued)

### Connection to an Audio Visual Device (continued)

#### Precautions when connecting the antenna

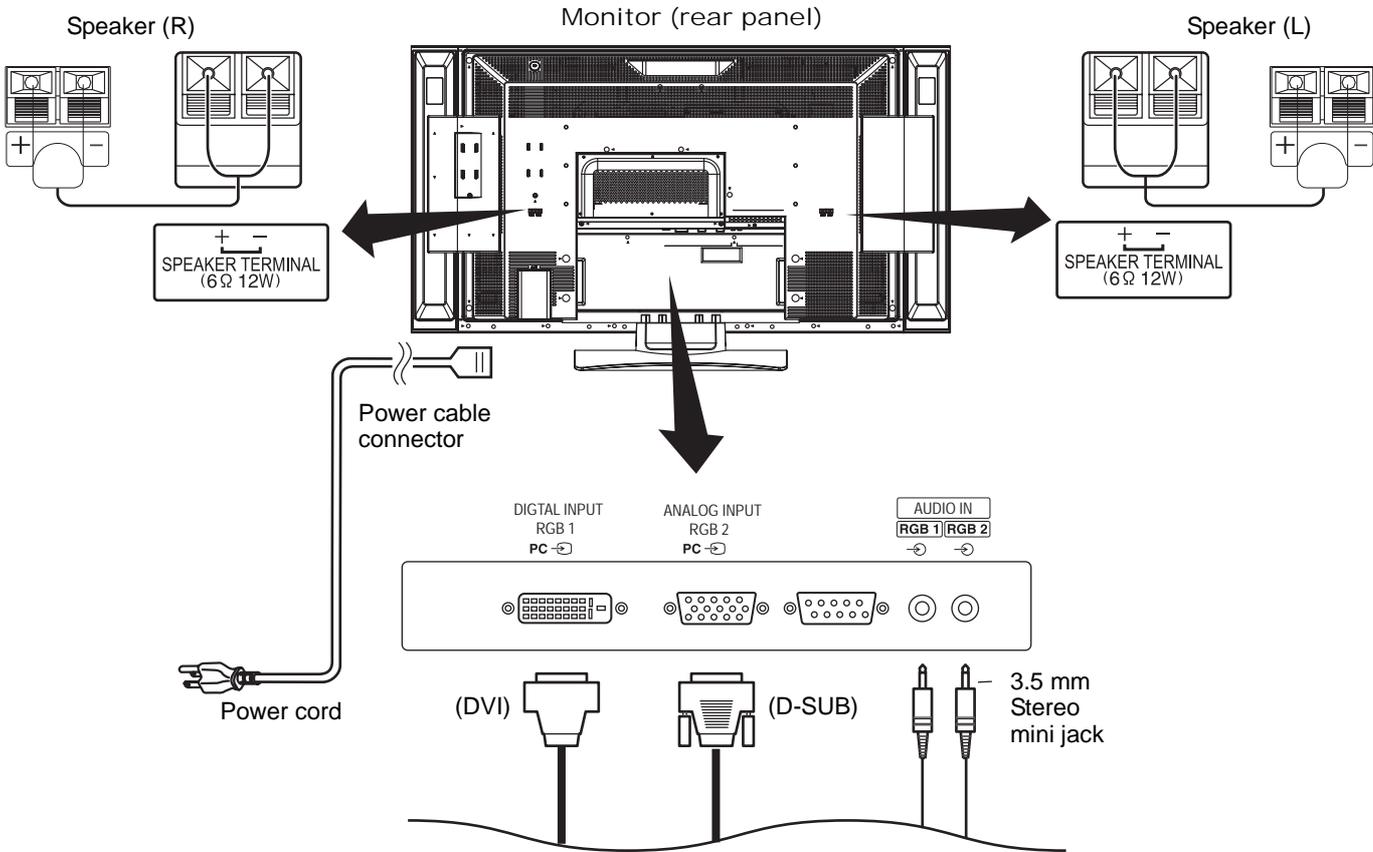
- Please use a coaxial cable which is free from interference to connect the antenna. Avoid using a parallel flat feeder wire as interference may occur, causing reception to be unstable and stripe noise to appear on the screen.
- Avoid using indoor antenna as this may be affected by interference. Please use CATV net or outdoor antenna.
- Keep the power cord as far away from the antenna wire as possible.
- For safety, install an external antenna conforming to AS1417.1 (applicable for Australia only)

If there are noise appearance in the picture of VHF-Low band channel, please use the double-shielded cable (not provided) for RF LEADS to reduce the noise.

# INSTALLATION INSTRUCTIONS (continued)

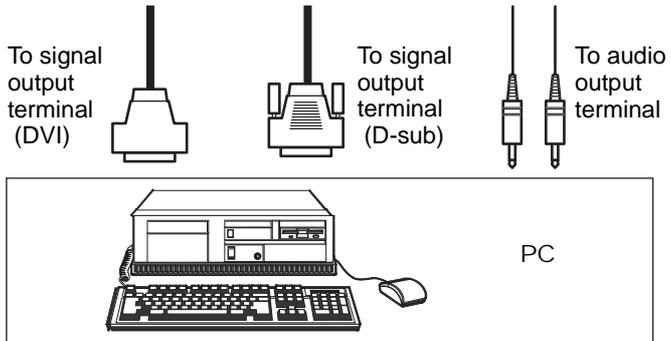
## Connecting to a PC

- (1) Make sure that the display signal of the personal computer to be used is compatible with the specifications of this device.
  - See "PRODUCT SPECIFICATIONS" concerning the specifications of this device. 48 ~ 52
- (2) Make sure that the power switch of the personal computer is turned off.
- (3) Connect the signal input terminal (RGB 1 or RGB 2) on the rear panel of this device to the display signal output terminal of the personal computer.
  - Use a cable that fits the input terminal of this device and the output terminal of the personal computer.
  - Depending on the type of personal computer being connected, the use of an optional conversion adapter or the adapter provided with the personal computer may be necessary in some cases. For details, refer to the instruction manual of the personal computer or ask the personal computer manufacturer or your local retail dealer.

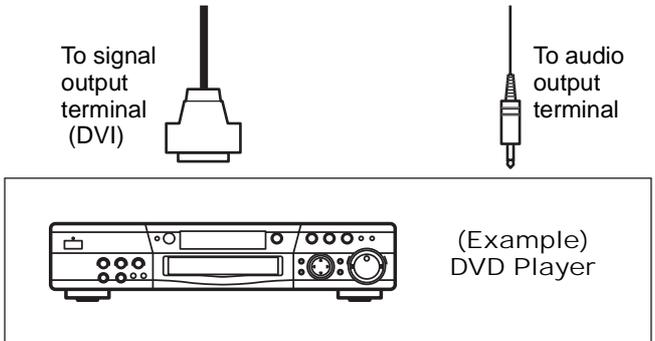


Connecting to a PC Device

Connecting to an Audio Visual Device



- Setting  
 RGB1: DVI-PC  
 RGB2: RGB  
 For details, refer to 51 52



- Setting  
 RGB1: DVI-STB  
 RGB2: Component  
 For details, refer to 50 51

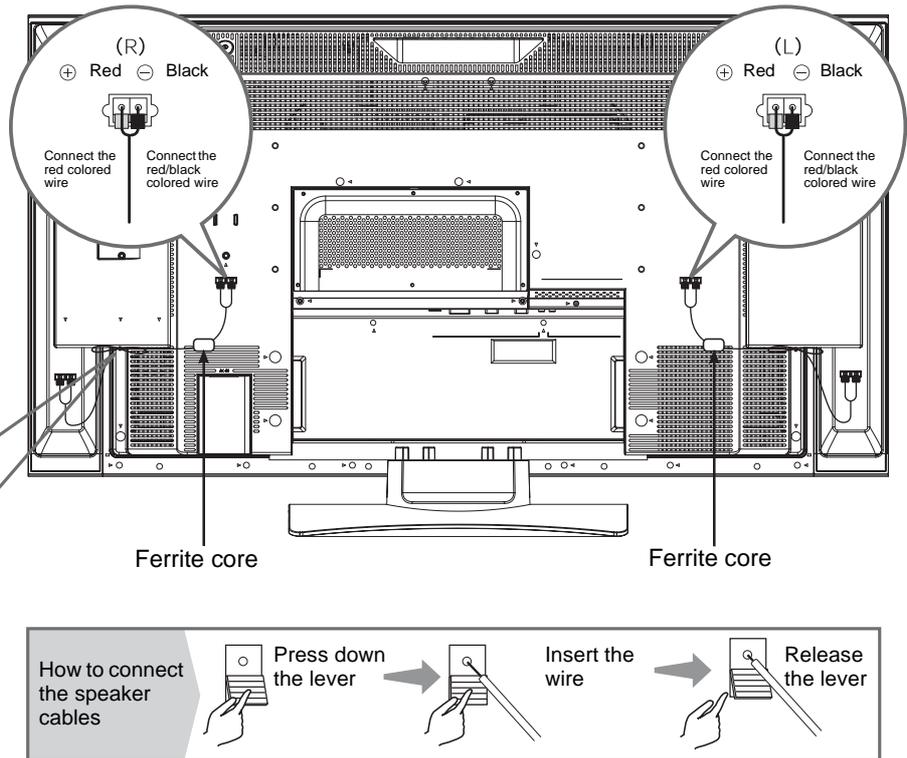
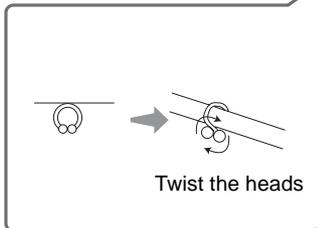
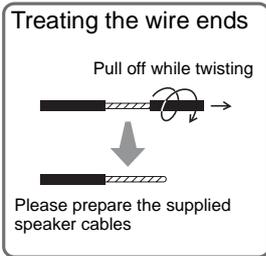
# INSTALLATION INSTRUCTIONS (continued)

## Connecting the Speaker Cables

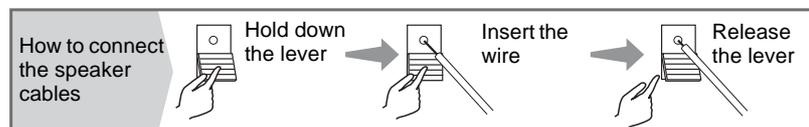
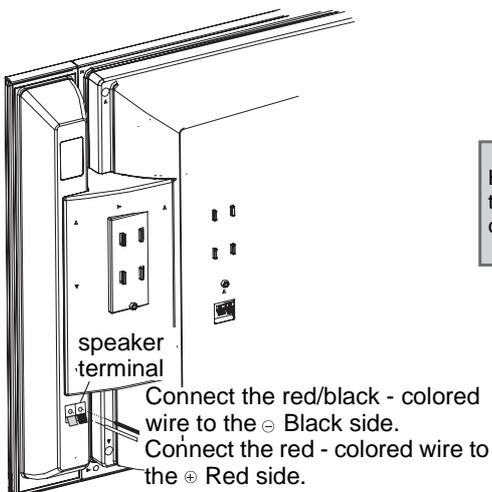
### CAUTION

Make sure that the main power switch of the monitor is turned off (standby or indicating lamp: off/red) when removing or connecting the speaker cables.

1. Attach the speaker connecting cables to the monitor. (Make sure the ferrite core is toward the monitor side)



2. Attach the speaker cables to speaker systems.



# INSTALLATION INSTRUCTIONS (continued)

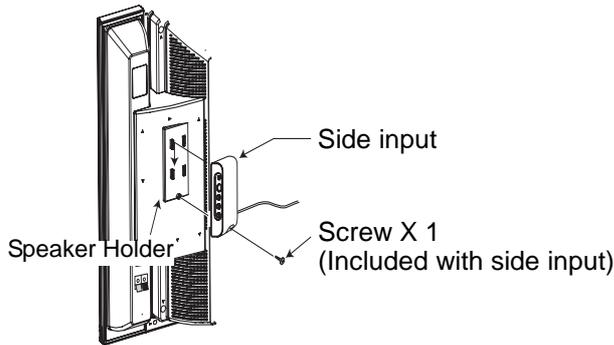
## Mounting the Side Input

### 1. Mount the side input into the speaker holder.

Hook the clamps (4 pieces) of the speaker holder into the holes as shown in the figure and pull them down until it sounds click. Fasten the side input with the speaker holder by the accessory screw.

Refer to [13] about the connection of side input.

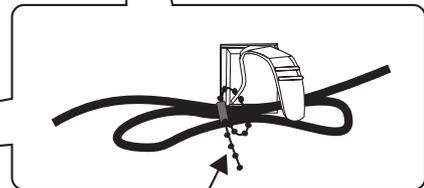
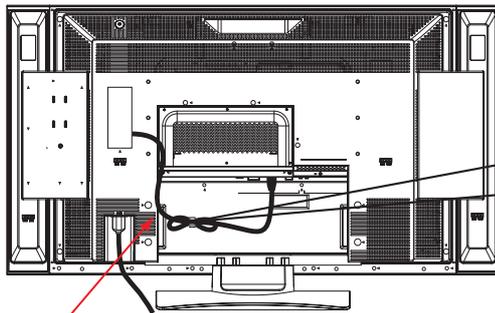
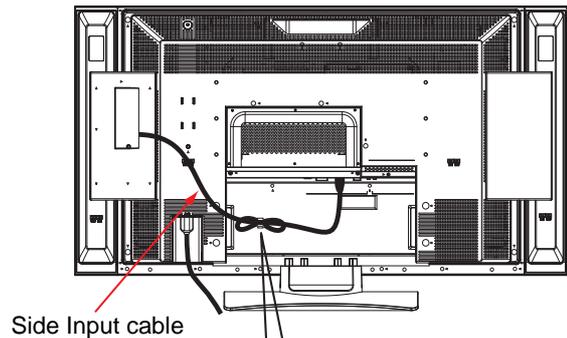
See the below figure how to treat the cable.



### 2. Mount the side input into the holder on rear of the monitor.

Fasten the side input with the holder by the accessory screw.

See the below figure how to treat the cable.

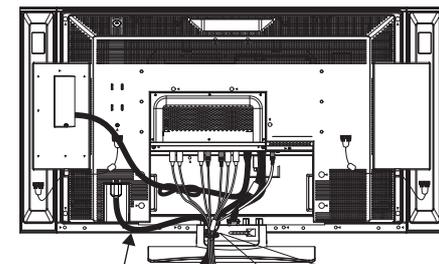


Side Input cable

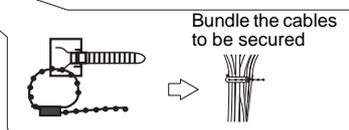
Cable strap

### ⚠ CAUTION

Make sure to secure the power cable and the connecting cables for other audio visual devices, except the speaker connecting cables, to the clamps and the cable strap of the monitor stand and the rear of it. When the monitor is swiveled, the connectors may drop out and generate heat. It could cause fire and/or connector failures. Moreover, when wiring up and securing these cables, give suitable slack not to rub the stand during swiveling or not to block the action of swivel.



[An example of treating the cables]

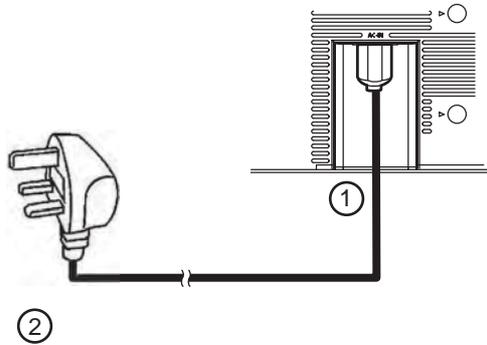


Power cord  
Connecting cable

## INSTALLATION INSTRUCTIONS (continued)

### Power Cord Connection

Connect the power cord, after completing all other connections.

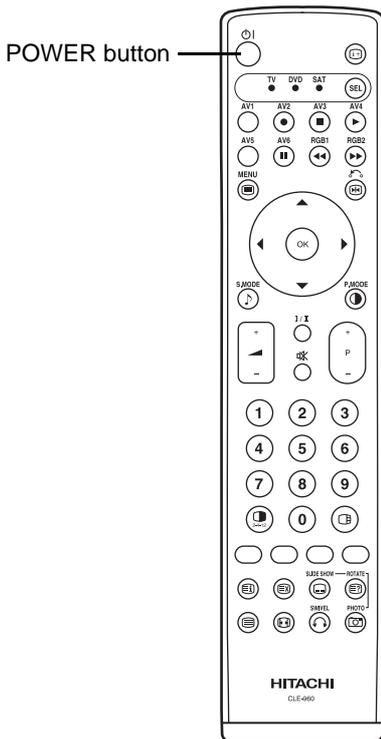
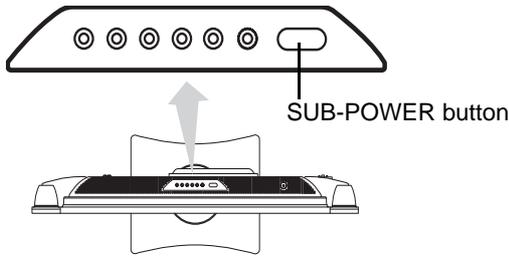
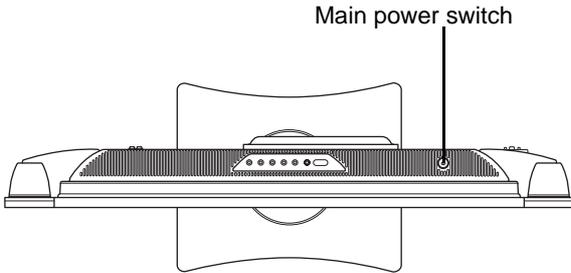
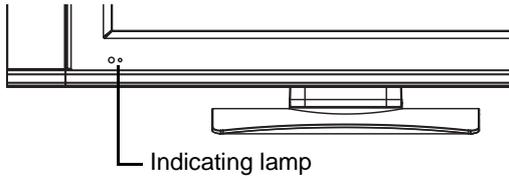


- (1) Connect the power cord to this device.
- (2) Connect the power cord plug to the power outlet.  
(The type of plug is different from this drawing for some countries.)

#### CAUTION

- Use only the power cord provided.
- Do not use a power supply voltage other than that indicated (AC100-240V, 50/60Hz) as this may cause fire or electric shock.

# OPERATING INSTRUCTIONS



## Turning Power On and Off

- To turn the monitor power ON, press the main power switch on the monitor main unit to ON, and then press the SUB POWER button of control panel or the POWER button on the remote control.
- To turn the monitor power OFF, press the SUB POWER button of control panel or the POWER button on the remote control, and then press the main power switch on the monitor main unit to OFF.
  - During normal use, the main power switch is set in the ON position, and the monitor can then be turned ON/OFF using the SUB POWER button or the POWER button on the remote control.

## Indicating lamp

Indicating lamp	Power status	Operating
Off	Off	When the main power switch is set to OFF.
Lights red	Off (standby)	When the main power switch is ON, and the POWER button on the remote control or the SUB POWER button on the upside of the monitor is OFF.
Lights green	On	When the main power switch is ON, and the POWER button on the remote control or the SUB POWER button on the upside of the monitor is ON.
Lights orange	Off (Power Save)	When the main power switch is ON, and the POWER button on the remote control or the SUB POWER button on the upside of the monitor is ON. However, the state is in POWER SAVE mode.(RGB 1 and RGB 2 only.)

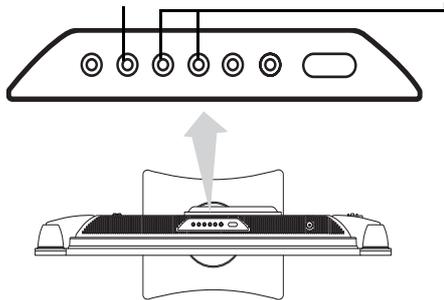
When the indicating lamp lights in orange or the message “No Sync. Signal”, “Power Save” or “Invalid Scan Freq.” appears on the screen, there is something unusual about the status of reception. See “Power Save Mode” or “Symptoms That Seemingly Appear to be Failures.” [43](#) [44](#) [45](#)

**ATTENTION**

- Avoid repeatedly turning the monitor on and off at short time intervals. Failures might result from such operation.
- Turn off the main power switch before leaving the monitor out of use for an extended period of time.
- If a power failure occurs while the main unit is running, it would be powered on upon recovery from the failure. Turn off the unit main power switch before leaving the main unit.

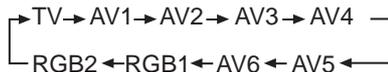
## OPERATING INSTRUCTIONS (continued)

INPUT SELECT button      CHANNEL UP/DOWN buttons



### Input Switching

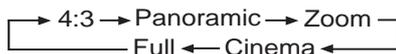
- Input can be switched by pressing the AV1-6, RGB1 or RGB2 buttons of the remote control.
- Input can be switched to TV by pressing CHANNEL UP/DOWN button or PROGRAM SELECT buttons.
- Input can be switched in the sequence of TV → AV1 → AV2 → AV3 → AV4 → AV5 → AV6 → RGB1 → RGB2 by pressing the INPUT SELECT button of the control panel.



### Size Switching

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

- During TV/VIDEO signal input (AV1, AV2, AV3, AV4, AV5, AV6, RGB1(set to [DVI-STB])and RGB2(set to [Component]))

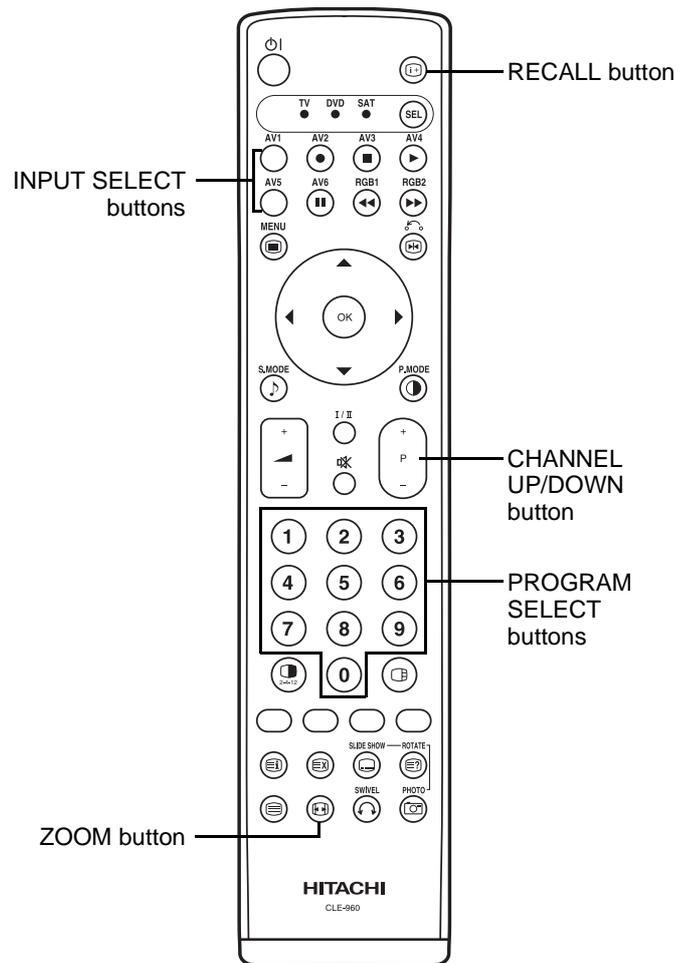


- The size will fix as Full mode and not change when receiving the component signal of 1080i/50, 1080i/60 or 720p/60.



### Display size selection diagram

When you want to	Set the display size to	Input signal	Display screen	Remarks
Play a 4:3 image in a 16:9 screen faithfully.	4:3			Blanking occurs on both sides.
Play a 4:3 image in a 16:9 screen with the height and width of the middle of the screen enlarged on equal scales and with both sides appearing somewhat enlarged.	Panoramic	(4:3 signal) 		
Play a 16:9 VISTA size image in the 4:3 image faithfully reproduced on the 16:9 screen.	Zoom	 (Vista)		<ul style="list-style-type: none"> <li>• The 4:3 image is called a letterbox image.</li> <li>• In some cases, some slight blanking may remain at the top and bottom.</li> </ul>
Play a 21:9 Cinema size image in the 4:3 image expanded vertically on the 16:9 screen.	Cinema	 (Cinema)		In some cases, some slight blanking may remain at the top and bottom.
Play a 4:3 image faithfully in a 16:9 screen in the standard vertical size and horizontally squeezed.*	Full	 (Squeeze)		* An image with an aspect ratio of 16:9 shrunk horizontally to 4:3 to display in a 4:3 screen

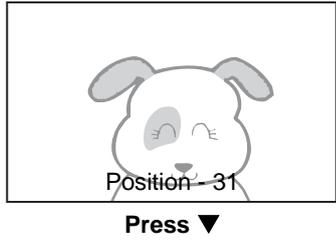
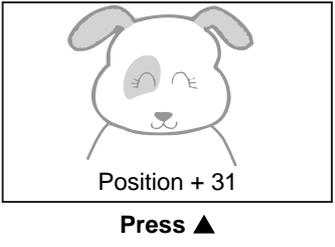


# OPERATING INSTRUCTIONS (continued)

## Size Switching (continued)

- Vertical picture position can be adjusted for [Panoramic], [Zoom] and [Cinema] mode as follows.
1. Press ZOOM button and ▲▼ SELECT buttons during picture size display.
  2. Position display will appear.
  3. Adjustment range of each picture size are as shown below.
 

[Panoramic]	- 12 to + 12
[Zoom] and [Cinema]	- 31 to + 31
  4. When 1080i/60 component signal is received, vertical position can be adjusted only one step up. (The range: 0 to +1)



**ATTENTION**

**Using a wide-screen monitor**

- This 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 this monitor in its enlarged display mode with the wide feature enabled in coffee shops, hotels and other establishments for commercial or public viewing purposes could infringe on the copyright holder's right protected by Copyright Law.
- When a normal 4:3 image is displayed over the entire screen in the Panoramic mode, parts of the periphery of the image may disappear and/or appear distorted in some cases. Use the 4:3 mode to view images, which were created in 4:3 mode. This mode allows 4:3 content to be viewed without picture distortion.

• **During RGB Input (RGB1 (set to [DVI-PC]) and RGB2 (set to [RGB]))**



\* Real mode gives the image of the same shape as it is displayed on a computer monitor.  
 This mode is only available for VGA (640 X 480), WVGA (864 X 480), SVGA (800 X 600), XGA (1024 X 768) and WXGA (1280 X 768).

Display area selection diagram (RGB input)

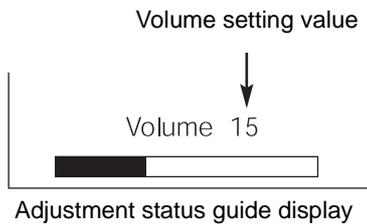
Resolution	Full display	Circular display				
	Full	Normal	Real	Zoom1	Zoom2	Zoom3
640 X 480 (VGA)						
800 X 600 (SVGA)						
1024 X 768 (XGA)						
1280 X 1024 (SXGA)						
1600 X 1200 (UXGA)						
1366 X 768 (WXGA)	Selected character WXGA Type	can't select				

Processes such as compression (thinning) and expansion are performed for the above signal display. Because of this, there is a possibility that flicker may become noticeable on Zoom (1 ~ 3) depending on the display contents. If this occurs, turning the Vertical Filter On can reduce the flicker.

## OPERATING INSTRUCTIONS (continued)

### Volume Adjustment

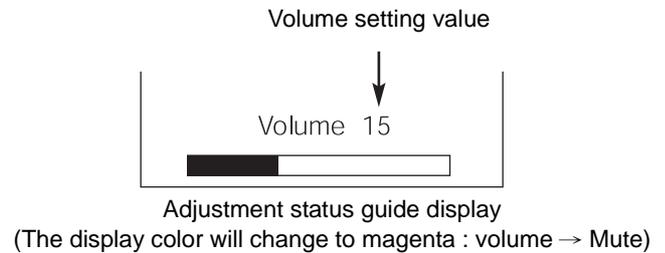
The volume can be adjusted by pressing the **+** and **-** buttons of the remote control (or the **+** and **-** volume buttons of the monitor unit).



- **When a button is pressed, the volume adjustment status guide will be displayed.**
  - The volume will increase when the **+** button is pressed while the guide is being displayed.
  - The volume will decrease when the **-** button is pressed while the guide is being displayed.

### Audio Mute

The audio volume can be temporarily muted by pressing the **MUTE** button of the remote control.



- **When a button is pressed, the volume adjustment status guide (magenta) will be displayed.**
  - The volume setting can be lowered by pressing the **-** button while the audio is mute.
  - The muting can be cancelled by pressing the **+** button or **MUTE** button while the audio is mute.
  - The audio from the headphone terminal is not mute.
  - The audio from the speaker is automatically mute while connecting the headphone to the headphone terminal of the side input (AV5).

**When the MUTE button of the remote control is pressed again, the audio will be restored and the volume display (green) will appear.**

## OPERATING INSTRUCTIONS (continued)

### Power Swivel

- This feature controls the motorized stand. It allows turning the LCD monitor left or right using the remote control.

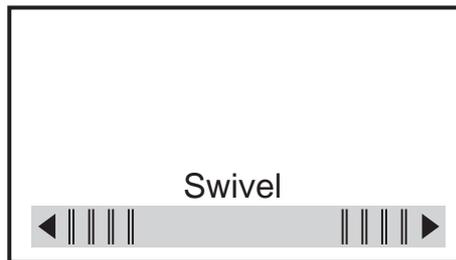
#### **⚠ WARNING**

Make sure that the main power switch of the monitor is turned off when removing or connecting the power cord, the connector cables, and the speaker cables.

#### 1. Press Swivel button.

The controlling icon appears on the screen.

- If the connecting cable is not connected, the indication "Not Available" appears.
- The swivel display disappears in about 6 seconds without any operation.



#### 2. Adjust for preferred angle.

Opposite directions are displayed on the screen while the monitor is swiveled.

Adjust by using  key while the swivel display is on the screen.

Swiveling angle of the monitor is available within  $\pm 30$  degrees from the front face.

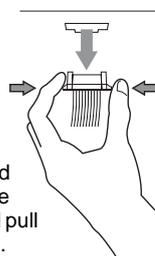
#### ATTENTION

- Do not push the panel manually while using the swivel function. It could cause damage to the stand or the panel.
- Do not get on and hang from the monitor. Do not swing the monitor back and forth and around either. It could cause a failure of the stand.
- Do not put hands or faces close to the monitor while operating the swivel function. It could cause a physical injury. Use special caution in households where children are present.
- Do not put any object, like a vase, near the monitor in swiveling area. It would cause a breakage of the object and /or a failure of the stand.
- Place the monitor on the stable location, or the swivel function would not operate correctly. It would cause a malfunction.
- In the case of using the monitor wall mounted, be sure to detach the connecting cable between the monitor and the stand.

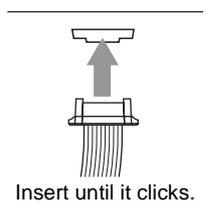
#### Caution when connecting the monitor with the stand

- When detaching the stand from the monitor, make sure to detach the connector cable from the stand connection terminal on the rear of the monitor.

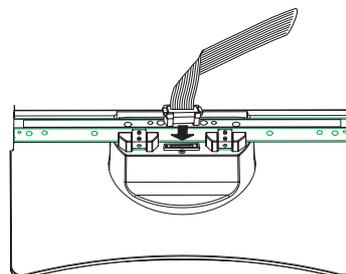
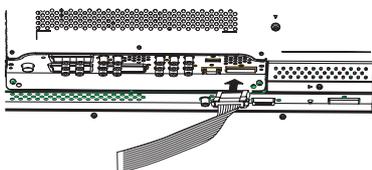
Pinch right and left locks of the connector and pull out downward.



- When attaching the stand to the monitor once again, insert the connector cable into the stand connection terminal on the rear of the monitor.



- Make sure that the direction of the connector for stand connecting cable is correct.

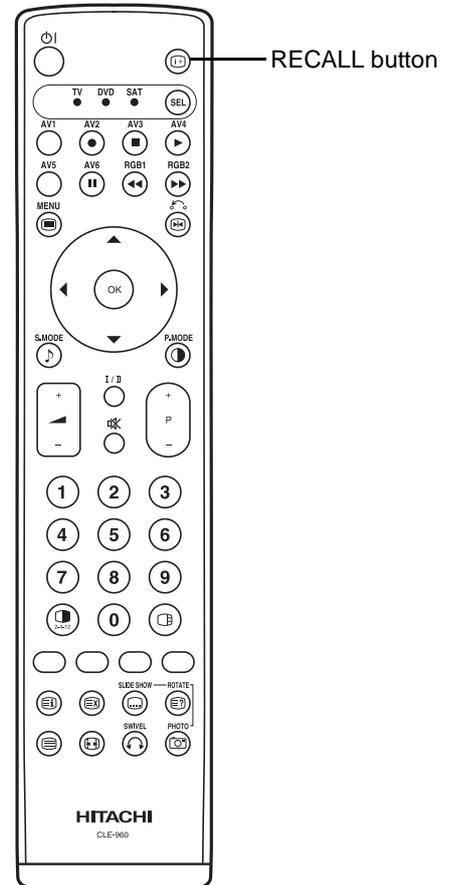
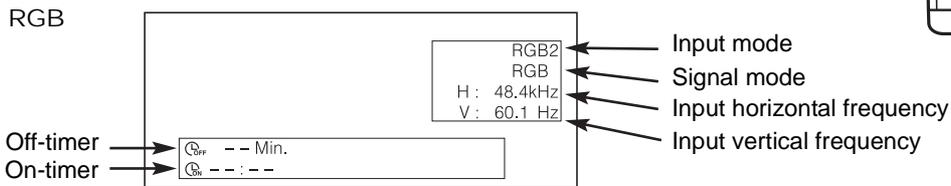
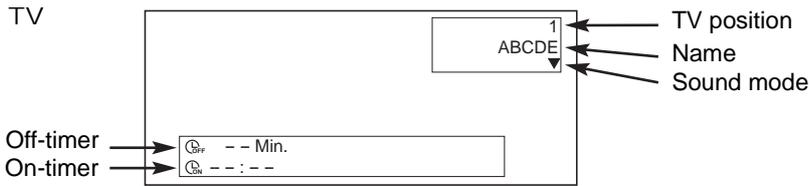


# OPERATING INSTRUCTIONS (continued)

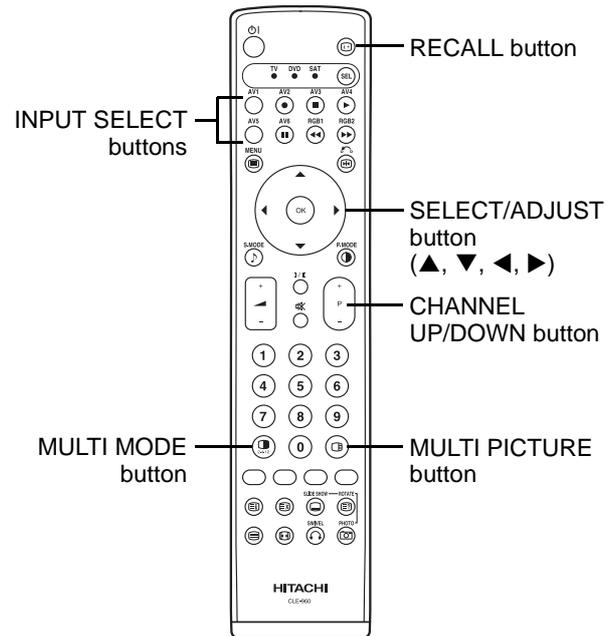
## Input Signal Screen Display

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

- The display will go out in approximately 6 seconds.

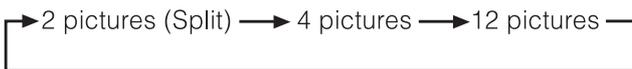


## OPERATING INSTRUCTIONS (continued)



### Displaying MULTI PICTURE

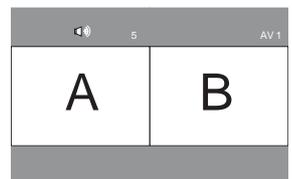
When the **MULTI PICTURE** button on the remote control is pressed, the screen will display the multi pictures. And then three types of the screen can be selected by pressing the **MULTI MODE** button on the remote control. The multi-picture mode will change in the following sequence each time the **MULTI MODE** button is pressed.



#### Activating the Split mode from the TV screen

Pressing the **MULTI PICTURE** button one time will display 2 pictures.

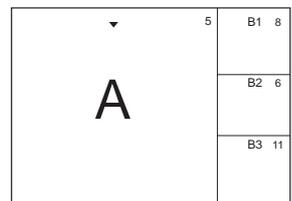
- The speaker icon can be shifted left and right by pressing the ◀ and ▶ SELECT buttons; the audio will be output from the side on which the speaker icon is located.
- The same signal input cannot be selected for both screens at the same time.
- The TV channel can be changed by pressing the CHANNEL UP/DOWN button on the remote control.
- The signal input mode of picture-A or picture-B (the one that the speaker icon is located on) can be selected by pressing INPUT SELECT buttons on the remote control.
- Pressing the MULTI PICTURE button once again will cancel the multi-picture mode.
- Refer to the table for 2 pictures (Split) mode. [26](#)



#### Activating the 4 pictures mode from the TV screen

Pressing the **MULTI MODE** button one time at the 2 pictures mode will display 4 pictures.

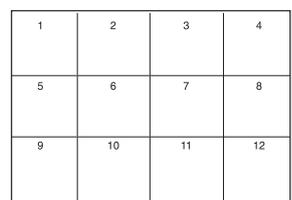
- Press ◀ and ▶ SELECT buttons to select picture A or picture B indicated by a red triangle. For pictures on right, press ▲ and ▼ SELECT buttons to select picture. The selected input display number would change green.
- The TV channel can be changed by pressing the CHANNEL UP/DOWN button on the remote control.
- The audio can only be output from picture A in 4 pictures mode.
- The component signal input mode cannot be selected in pictures B. Refer to the table for 4 pictures mode. [26](#)
- Pressing the MULTI PICTURE button at the 4 pictures mode will cancel the multi-picture mode. And then, pressing the MULTI PICTURE button again will display the 4 pictures.



#### Activating the 12 pictures mode from the TV screen

Pressing the **MULTI MODE** button one time at the 4 pictures mode will display 12 pictures.

- Starting from channel 1, preset channels will automatically display in sequence on the 12 windows.
- This function activates only in TV mode.
- After several seconds, it refreshes the picture one by one.
- Pressing the MULTI PICTURE button at the 12 pictures mode will cancel the multi-picture mode. And then, pressing the MULTI PICTURE button again will display the 12 pictures again.
- Pressing the MULTI MODE button at the 12 pictures mode will display the 2 pictures (Split) mode.



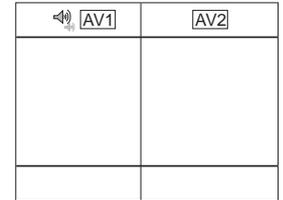
# OPERATING INSTRUCTIONS (continued)

## Displaying MULTI PICTURE (continued)

### Activating the Split mode from the video input screen

Pressing the MULTI PICTURE button one time will display 2 pictures.

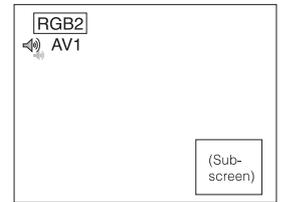
- The speaker icon can be shifted left and right by pressing the ◀ and ▶ SELECT buttons. The audio of the video will be output from the side on which the speaker icon is located.
- The same video input mode cannot be selected for both screens at the same time.
- Pressing the MULTI PICTURE button again will cancel the 2 pictures display.
- Refer to the table for 2 pictures (Split) mode.



### Activating the MULTI PICTURE mode from the RGB input screen

Pressing the MULTI PICTURE button one time will display 2 pictures.

- This mode can be available from RGB1 (DVI-PC) and RGB2 (RGB) input.
- The speaker icon can be shifted up and down by pressing the ◀ and ▶ SELECT buttons. The audio will be output from the side on which the speaker icon is located.
- The sub-screen position can be selected up and down by pressing ▲ and ▼ SELECT buttons.
- The sub-screen can be selected with the AV1~AV6, TV channel buttons from the status that the speaker icon appears on the left side of AV\* etc. as shown in the diagram to the right.
- Pressing the MULTI PICTURE button again will cancel the 2 pictures display.
- "Frequency Mode" in the Setup Menu should be set to Movie when sub-screen is the component signal of 1080i/50 or 1080i/60.



AV1: Displays the VIDEO input signal of the sub-screen.

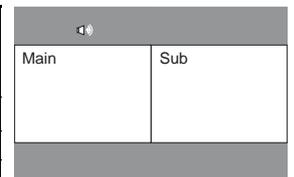
### NOTE

- Even if the input of the horizontal / vertical synchronizing signal (or video signal) stops in the multi picture display, the mode will not change to power save mode.

### 2 Pictures (Split)

Input terminal			AV1 ~ AV5				AV1, AV2, AV6			RGB1	RGB2	TELE TEXT
	Main \ Sub	TV	PAL SECAM	NTSC3.58 NTSC4.43	576i 576p	480i 480p	1080i/50	1080i/60	720p/60	STB	Component	
	TV	○	○	○	○	○	○	○	○			○
AV1 ~ AV5	PAL, SECAM	○	○	○	○	○	○	○	○			
	NTSC3.58/4.43	○	○	○	○	○	○	○	○			
AV1	576i, 576p	○	○	○	○	○	○	○	○			
	480i, 480p	○	○	○	○	○	○	○	○			
AV2	1080i/50	○	○	○	○	○	○	○	○			
	1080i/60	○	○	○	○	○	○	○	○			
AV6	1080i/60	○	○	○	○	○	○	○	○			
	720p/60	○	○	○	○	○	○	○	○			
RGB1	STB											
RGB2	Component	○	○	○	○	○	○	○	○			

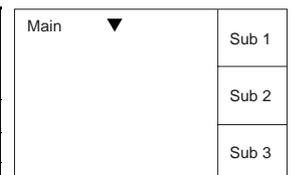
(○ : Available)  
Teletext is available only for TV



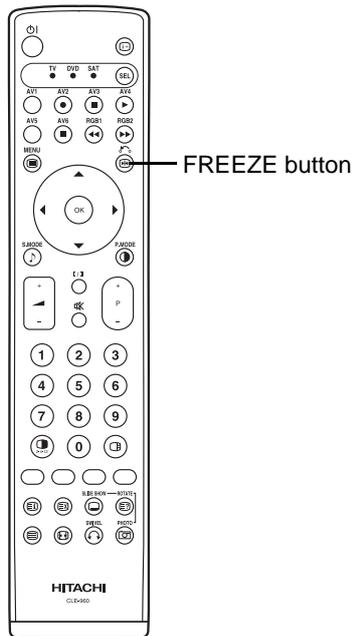
### 4 Pictures

Input terminal			AV1 ~ AV5				AV1, AV2, AV6			RGB1	RGB2	TELE TEXT
	Main \ Sub	TV	PAL SECAM	NTSC3.58 NTSC4.43	576i 576p	480i 480p	1080i/50	1080i/60	720p/60	STB	Component	
	TV	○	○	○								
AV1 ~ AV5	PAL, SECAM	○	○	○								
	NTSC3.58/4.43	○	○	○								
AV1	576i, 576p	○	○	○								
	480i, 480p	○	○	○								
AV2	1080i/50	○	○	○								
	1080i/60	○	○	○								
AV6	1080i/60	○	○	○								
	720p/60	○	○	○								
RGB1	STB											
RGB2	Component	○	○	○								

(○ : Available)



# OPERATING INSTRUCTIONS (continued)



## Picture Freezing

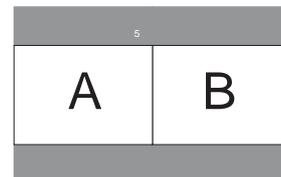
**When the FREEZE button on the remote control is pressed, the screen transfers into the freeze mode.**

- There are two types of freezing screen mode, Split and Strobe. These are possible to select at the "Freeze Mode" setting of the Function Menu.
- The Split mode will display 2 pictures from the same source on the screen with one active picture and the other still.
- The Strobe mode will display 12 pictures with the last picture active, while other 11 windows are still.
- Pressing the FREEZE button again changes the screen back to the normal picture.
- This function is also available from video input mode besides TV mode. Refer to the table for Freeze function as below:

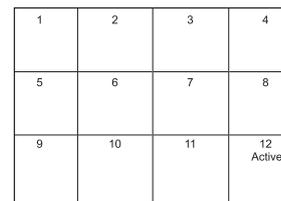
	Split	Strobe
TV	○	○
PAL. SECAM	○	○
NTSC3.58/4.43	○	○
576i	○	○
480i	○	○
576p	○	
480p	○	
1080i/50	○	
1080i/60	○	
720p/60	○	
RGB. DVI-PC		

(○ : Available)

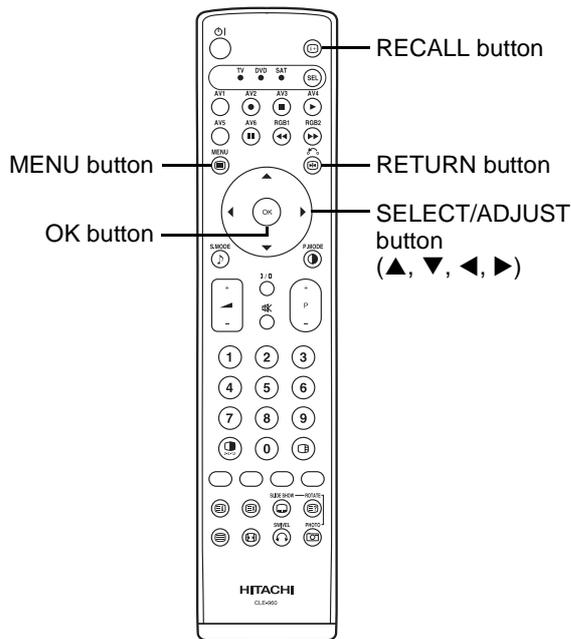
[Split]



[Strobe]



## OPERATING INSTRUCTIONS (continued)



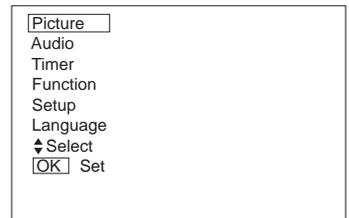
### Using the Menu Screen (On-screen display system)

When the MENU button is pressed, the adjustment menu screen will be displayed; from there, several adjustments and settings are possible by using the SELECT button, ADJUST button and OK button.

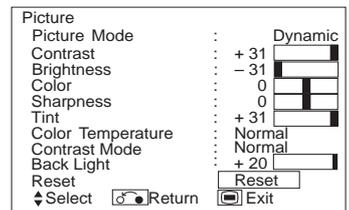
- Refer to 29 - 41 concerning the adjustment items and the settings.

#### Example: Selecting the Picture screen from TV/Video mode

1. Press the MENU button to display the Main Menu screen.



2. Press the OK button to display the Picture Menu screen.  
(Use the ▲ and ▼ SELECT buttons to select other items.)



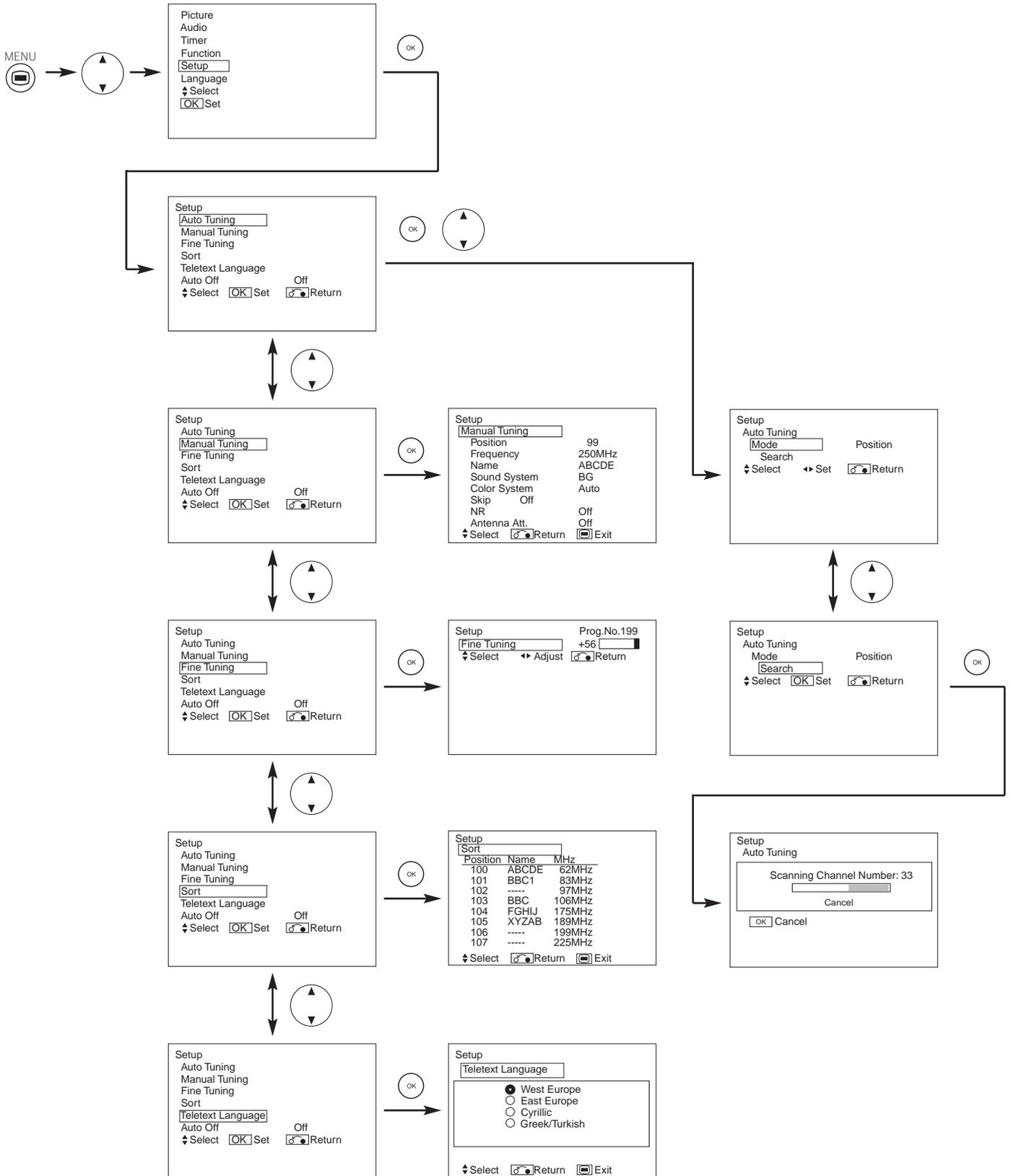
3. Use the ▲ and ▼ SELECT buttons to select the item to be adjusted and then use the ◀ and ▶ ADJUST buttons to adjust (example: Contrast).



- Press the RETURN button to return to the previous screen.
- If there is no operation for a period of one minute, the Adjustment Menu screen will be closed automatically.

# OPERATING INSTRUCTIONS (continued)

## SETUP MENU (TV mode)



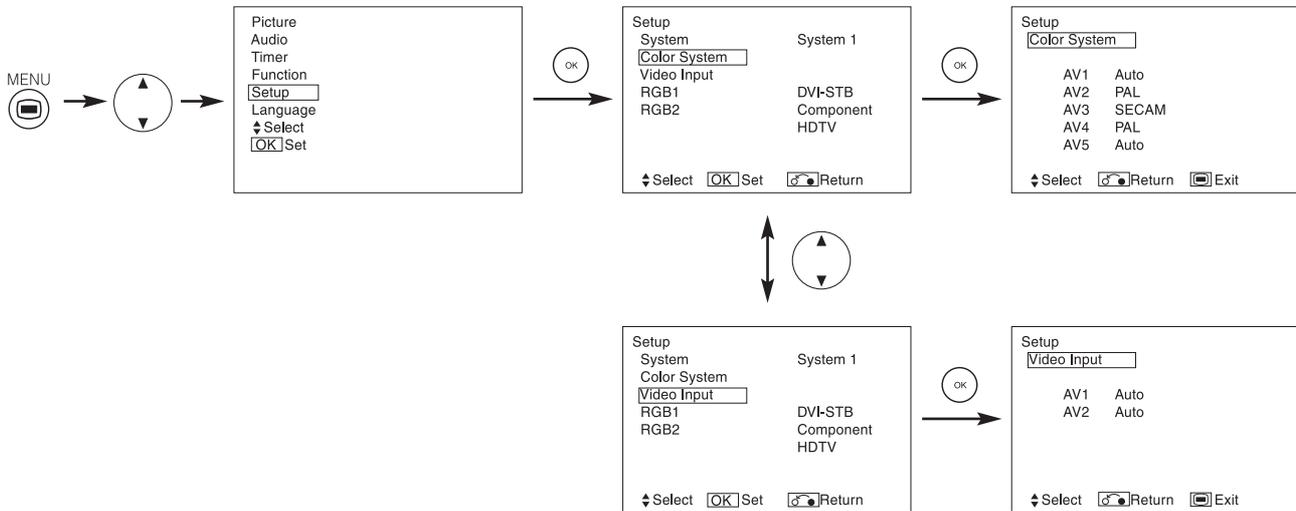
# OPERATING INSTRUCTIONS (continued)

## SETUP MENU (TV mode) (continued)

Selected characters	◀	▶	Setup hint
<b>Auto Tuning</b>			
Mode			Select the channel entry method between position setting or direct setting. And press the OK button to fix it. <ul style="list-style-type: none"> <li>• If [Position] is selected, the screen display will be numbers (1~199 and AV00).</li> <li>• If [Direct] is selected, the screen display will be C** at the channel 0~99 and S** at the channel 100~199.</li> </ul>
Search	–	–	Press the OK button and it starts the auto tuning.
<b>Manual Tuning</b>			
Position	–	–	Set the position number (1~199 and AV00) or channel number (C**, S**) by (+) (-) CHANNEL UP/DOWN button.
Frequency	–	–	<ul style="list-style-type: none"> <li>• If [Position] has been selected, search the frequency here by pressing ◀ and ▶ buttons.</li> <li>• If [Direct] has been selected, this function will be not available (grayed out).</li> </ul>
Name	 (□: a letter)		This is used to input the name of the TV station within 5 letters. After fixing the cursor on the first digit, select a letter by ▼ and ▲ SELECT buttons and move to next digit by ▶ ADJUST button. Press the OK button again after finished. <ul style="list-style-type: none"> <li>• Selectable letters are "0"~"9", "A"~"Z", "+", "-", " "(blank), ",", (comma) and "." (period).</li> </ul>
Sound System			Select the sound system through the 5 different settings.
Color System			Select the color system through the 5 different settings.
Skip			If this is set to On, that position will be skipped while selecting positions by CHANNEL UP/DOWN button. This is automatically set to On for those non-broadcasting channels.
NR			If this is set to On, it helps to reduce the noise interference visible on the screen, especially in the weaker signal reception areas.
Antenna Att			If this is set to On, it helps to reduce the noise interference visible on the screen in case of strong airwave.
Fine Tuning	Decreasing the frequency data for the main tuner	Increasing the frequency data for the main tuner.	After completing the fine-tuning, press the RETURN button to exit this mode. <ul style="list-style-type: none"> <li>• The variable range is -56 ~ +56.</li> </ul>
Sort	(When the Mode in Auto Tuning menu is set to [Direct], this function will be not available (grayed out).)		
(A Line of position List)	–	–	Press OK button at a line that is required to change order, then the characters will change to green. And move it up or down in the list by pressing ▲ and ▼ SELECT buttons. And press OK button to complete it. Press the RETURN button to exit.
Teletext Language	–	–	Select the teletext language, depending on the area utilized, through the 4 settings; West Europe, East Europe, Cyrillic and Greek/Turkish. <ul style="list-style-type: none"> <li>• Select West Europe when watch in Singapore, Australia, Malaysia, and so on.</li> </ul>
Auto Off			If this is set to On, the power will be turned off when there is no transmission signal and no operation for about 10 minutes in the TV mode.

# OPERATING INSTRUCTIONS (continued)

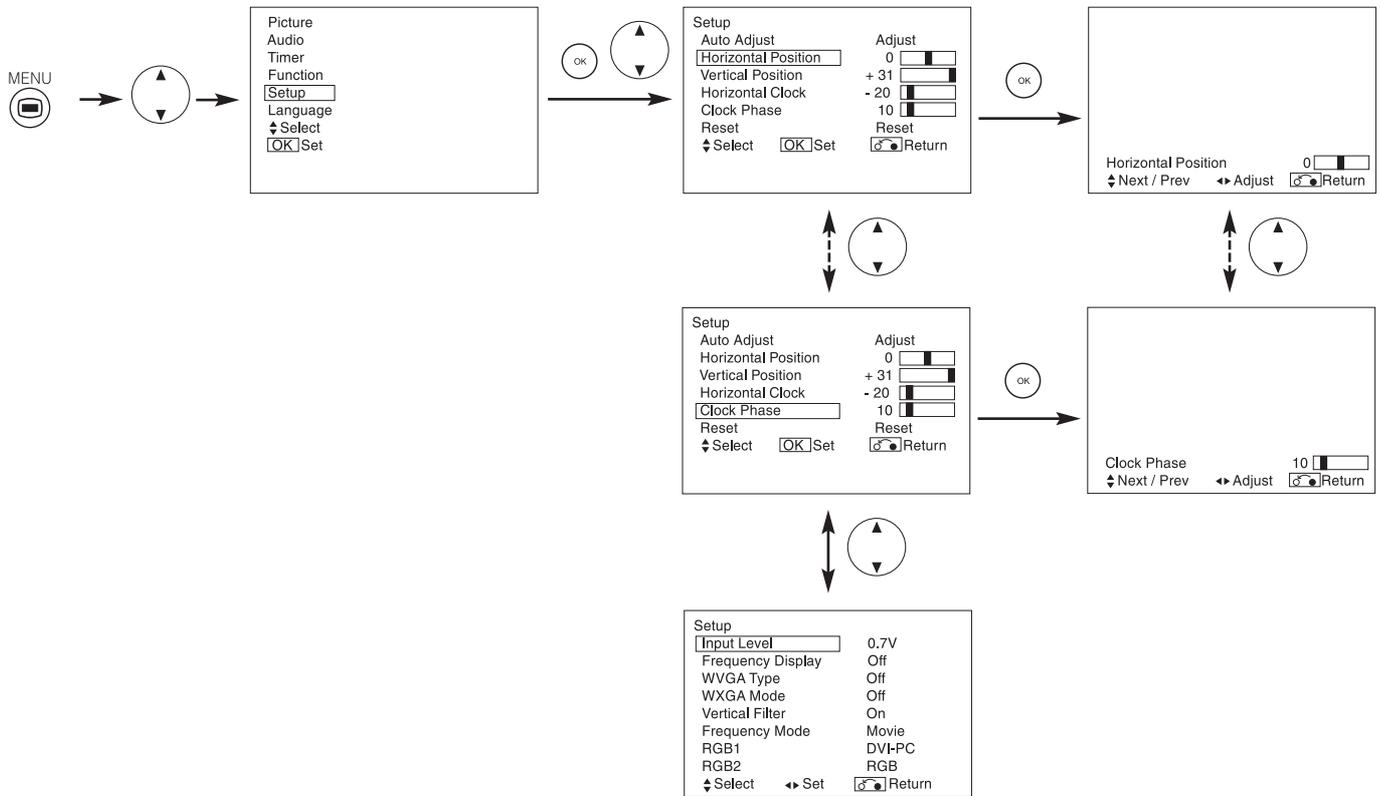
## SETUP MENU (Video mode)



Selected characters	◀ ▶	Setup hint
System	System1 ↔ System2	Do not change the original setting. (System1: Europe/Asia, System2: North America)
Color System		
AV1~AV5	<b>System1</b> Auto ↔ PAL ↔ SECAM NTSC3.58 ↔ NTSC4.43 <b>System2</b> Auto ↔ NTSC-M PAL-N ↔ PAL-M	This should correspond to the color system of the signal from the equipment that is connected to AV1~AV5 video input terminal. <ul style="list-style-type: none"> <li>• Normally, set this to Auto. The system of the input signal will be automatically recognized.</li> <li>• If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal.</li> <li>• When the component signal is received, this would be not available (grayed out).</li> </ul>
Video Input		
AV1, AV2	Auto ↔ HDTV ↔ SDTV/DVD	This should correspond to the signal mode of the signal from the equipment that is connected to AV1, AV2 video input terminal. <ul style="list-style-type: none"> <li>• Normally, set this to Auto. The signal mode of the input signal will be automatically recognized.</li> <li>• If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal.</li> </ul>
RGB1	DVI-PC ↔ DVI-STB	This should correspond to the signal mode of the signal from the equipment that is connected to RGB1 DVI terminal.
RGB2 (1st step)	RGB ↔ Component	This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal.
RGB2 (2nd step)	Auto ↔ HDTV ↔ SDTV/DVD	This step should be set only when [Component] is selected on the 1st step. This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal. <ul style="list-style-type: none"> <li>• Normally, set this to Auto. The signal mode of the input signal will be automatically recognized.</li> <li>• If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal.</li> </ul>

# OPERATING INSTRUCTIONS (continued)

## SETUP MENU (RGB mode: RGB1 (DVI-PC), RGB2 (RGB))



Selected characters	◀	▶	Setup hint
Auto Adjust*	—	Adjust Pressing the OK button here, Automatic regulation is started.	Horizontal Position. Vertical Position. Horizontal Clock and Clock Phase are adjusted automatically.
Horizontal Position	Moves the horizontal position to left. 	Moves the horizontal position to right. 	Adjust the left-side display position. Screen display changes to Magenta color if beyond the available range. (This function is only for RGB2. It's not available (grayed out) for RGB1 (DVI-PC).)
	Moves down the vertical position 	Moves up the vertical position. 	
Vertical Position	Reduces the dot clock frequency (shrinks the right side). 	Increases the dot clock frequency (expands the right side). 	Adjust for maximum character clarity. (This function is only for RGB2. It's not available (grayed out) for RGB1 (DVI-PC).)
	Slows the dot clock phase (shifts slightly to left). 	Advances the dot clock phase (shifts slightly to right). 	
Horizontal Clock	(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.
Reset			Normally set to 0.7 V. If white is found to spread across the screen, set to 1.0 V. (This is effective only for RGB2.)
Input Level			Set this to Off if the frequency information of the Input Signal Screen Display is not required.
Frequency Display			This is only available for W-VGA signal. When it is set to On, the display area mode can be selected Full or Real. (With RGB1 INPUT, the screen remains the same. RGB2 (ANALOG) INPUT only)
WVGA Type			This is only available for W-XGA signal. (RGB2 (ANALOG) INPUT only)
WXGA Mode			

## OPERATING INSTRUCTIONS (continued)

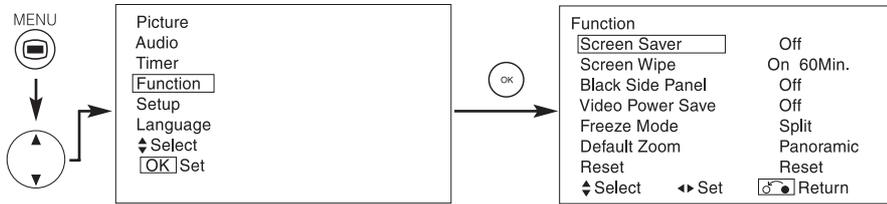
### SETUP MENU (RGB mode: RGB1 (DVI-PC), RGB2 (RGB)) (continued)

Selected characters	◀   ▶	Setup hint
Vertical Filter	◀ Off ↔ On ▶	Turn On when concerned about screen flicker.
Frequency Mode	Grayed out	This function is not available.
RGB1	◀ DVI-PC ↔ DVI-STB ▶	This should correspond to the signal mode of the signal from the equipment that is connected to RGB1 DVI terminal.
RGB2 (1st step)	◀ RGB ↔ Component ▶	This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal.
RGB2 (2nd step)	◀ Auto ↔ HDTV ↔ SDTV/DVD ▶	<p>This step should be set only when [Component] is selected on the 1st step.</p> <p>This should correspond to the signal mode of the signal from the equipment that is connected to RGB2 D-sub terminal.</p> <ul style="list-style-type: none"> <li>• Normally, set this to Auto. The signal mode of the input signal will be automatically recognized.</li> <li>• If the input signal contains much noise or has a low level at Auto and the operation is found erratic, set this to match the input signal.</li> </ul>

\* Depending on the type of signal displayed, displays may not be optimized through automatic adjustment. Adjust manually to optimize them.

# OPERATING INSTRUCTIONS (continued)

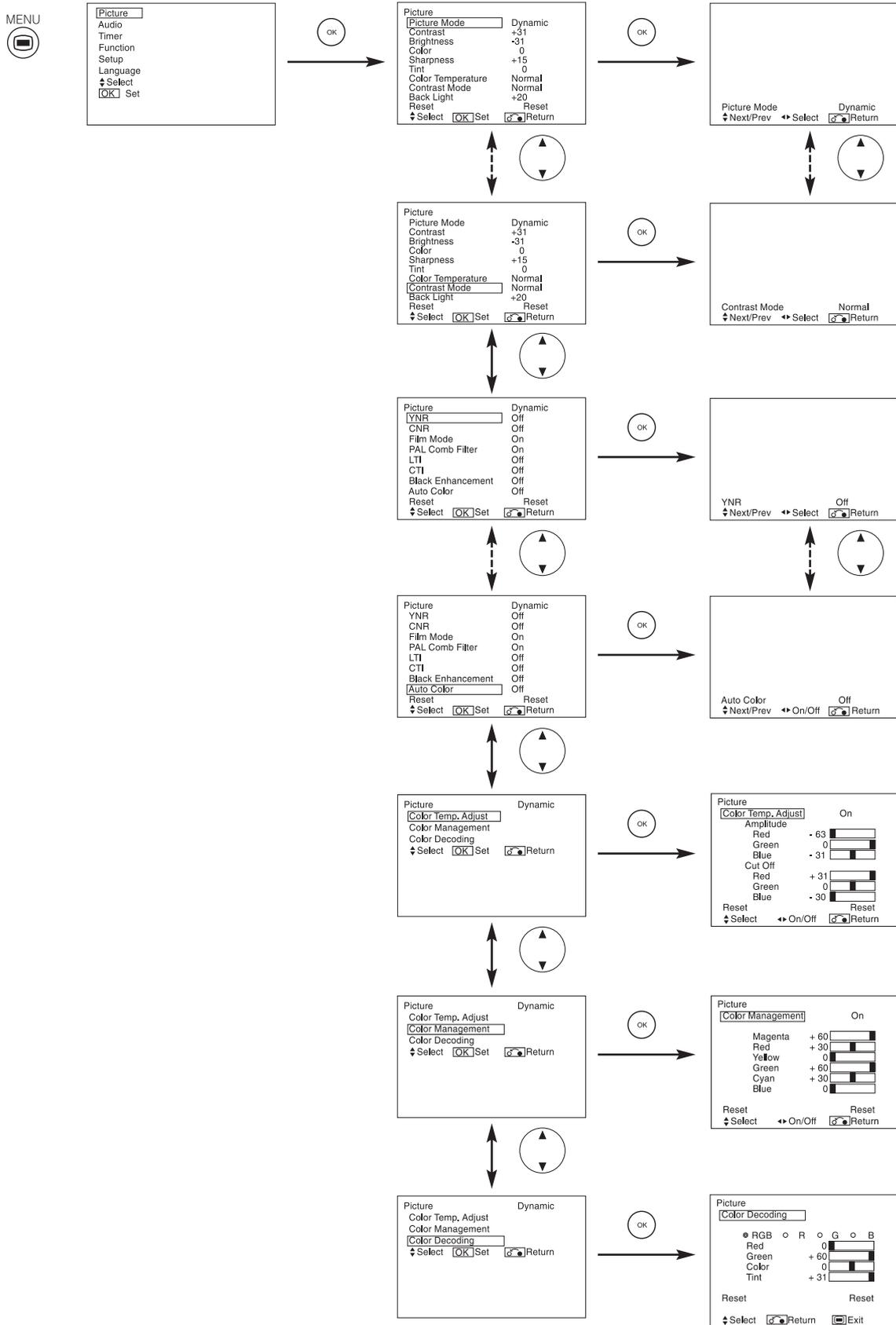
## FUNCTION MENU



Selected characters	◀	▶	Setup hint
Screen Saver	◀ Off ↔ 5Min. ↔ 10Min. ↔ ▶ 60Min. ↔ 40Min. ↔ 20Min. ▶		This moves the picture around the screen in small amounts, at set intervals, to reduce the residual image. This is where stationary objects, such as screen logos, leave a slight image visible after they should have disappeared.
Screen Wipe	On	60Min.	This is used to reduce the residual image that can occur with stationary pictures by the white field signal. Select On (continuous operation) or 60 Min. (time limit operation) and press the OK button. Press the MENU or RETURN button on the remote control to return to normal viewing.
Black Side Panel	▶ Off ↔ On ▶		This turns the gray sidebars to the black sidebars when watching normal mode screen size area. It is always set to Off when the monitor powered On. It is recommended to set to Off to reduce the residual image.
Video Power Save	▶ Off ↔ On ▶		This is used to reduce power consumption for video input when there is no video signal. Setting it On will lead the monitor to the standby mode when the AV input with no signal is selected.
Freeze Mode	▶ Split ↔ Strobe ▶		This selects the display condition of the FREEZE mode between Split (2 pictures) and Strobe (12 pictures).
Default Zoom	▶ Panoramic ↔ 4:3 ▶		This selects the screen display size of TV input that appears first when the main power turned on.
Reset	(off the function)	(waiting to reset)	This original factory settings for the items of this Menu page can be restored by pressing the OK button.

# OPERATING INSTRUCTIONS (continued)

## PICTURE MENU (TV/Video mode)



# OPERATING INSTRUCTIONS (continued)

## PICTURE MENU (TV/Video mode) (continued)

Selected characters		◀	▶	Setup hint
Picture Mode				Dynamic: This setting is best for very bright ambient lighting. Natural: This setting is for normal lighting conditions. Cinema: This setting is best for watching movie.
Contrast	Narrows the gap between brightness and darkness.	Broadens the gap between brightness and darkness.		Adjust for maximum visibility to suit the ambient brightness. This can adjust further till [+40] by pressing and holding ▶ SELECT button at [+31]. The color for [+32] to [+40] numbers will change from green to magenta. This special mode is better for dark scenes. For normal viewing we recommend that the Contrast is set to [+31].
Brightness	Black is subdued for increased overall darkness.	Black is set off for increased overall brightness.		Adjust to preference.
Color	Decrease color intensity.	Increase color intensity.		Adjust to preference.
Sharpness	Soft	Sharp		Shift to the minus (-) side for a softer effect and plus (+) for sharper picture.
Tint	Enhances red and weakens green.	Enhances green and weakens red.		This is not available to adjust when receiving PAL/SECAM signal. Then the character will be grayed out. Adjust for the most realistic skin color.
Color Temperature				Normally set to Cool.
Contrast Mode				Dynamic: Emphasizes the differences between video shadings to improve the feeling of contrast. Normal: The gradation of an image is reproduced as faithfully as possible. Auto: Detects image brightness and automatically adjusts for natural brightness.
Back Light	Darkens the screen.	Brightens the screen.		Adjust to preference (for the maximum visibility).
Reset	(off the function)	(waiting to reset)		The original factory settings for the items of this Menu page can be restored by pressing the OK button.
YNR				Performs picture signal noise reduction. Turn up to reduce noise.
CNR				Performs color signal noise reduction. Turn up to reduce noise. And it will be fixed as Off only when selecting DVI-STB mode.
Film Mode				On: Automatically detects the movie film material and faithfully reproduces the original film image. Off: Set to OFF when switching between images does not appear natural.
PAL Comb Filter				This is available only when receiving a PAL composite signal. Turn On to reduce the discolorations in fine picture detail and provides purer color.
LTI				Adjusts the sharpness of the picture signal.
CTI				Adjusts the sharpness of the color signal.
Black Enhancement				Adjusts the black level compensation.
Auto Color				This is available only when receiving an NTSC composite/S.Video signal. This monitors and adjusts the color to maintain constant color levels. It also maintains natural flesh tones while preserving fidelity of background colors.
Color Temp. Adjustment				Turn On when you wish to change color temperature depending on the user's preference.
Amplitude	Red	Brighter scene is decreased in reddish color.	Brighter scene is increased in reddish color.	Adjust color temperature depending on the user's preference. These settings are independently stored in each of the 4 Color Temperature modes.
	Green	Brighter scene is decreased in greenish color.	Brighter scene is increased in greenish color.	
	Blue	Brighter scene is decreased in bluish color.	Brighter scene is increased in bluish color.	
Cut Off	Red	Dark scene is decreased in reddish color.	Dark scene is increased in reddish color.	
	Green	Dark scene is decreased in greenish color.	Dark scene is increased in greenish color.	
	Blue	Dark scene is decreased in bluish color.	Dark scene is increased in bluish color.	

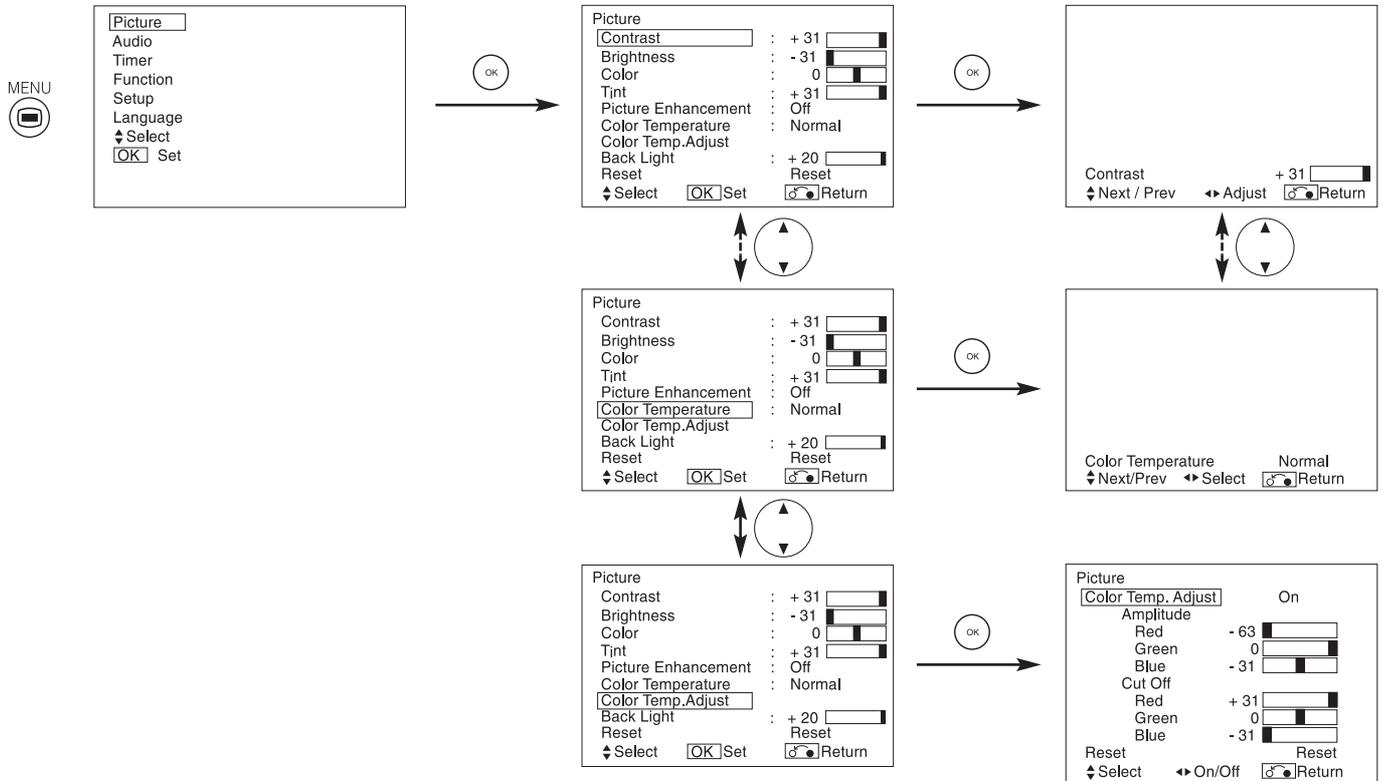
# OPERATING INSTRUCTIONS (continued)

## PICTURE MENU (TV/Video mode) (continued)

Selected characters	◀ ▶		Setup hint
Color Management			Turn On when the original balance of each color is required to adjust depending on the user's preference.
Magenta	Magenta is weakened.	Magenta is strengthened.	This adjusts listed colors individually to make them either deeper or purer. These settings are independently stored in each of the 4 Color Temperature modes.
Red	Red is weakened.	Red is strengthened.	
Yellow	Yellow is weakened.	Yellow is strengthened.	
Green	Green is weakened.	Green is strengthened.	
Cyan	Cyan is weakened.	Cyan is strengthened.	
Blue	Blue is weakened.	Blue is strengthened.	
Color Decoding			Select the single color screen when that is required to adjust R/G/B level individually depending on the user's preference. And set it back to RGB mode that indicates all color after adjusting. Press the OK button every time the setting is changed.
Red	Darkens red only.	Lightens red only.	This adjusts R/G/B level or tint to make the color appear natural for the user's preference. These settings are independently stored in each of the 4 Color Temperature modes. When select "Tint", the display will be gray to indicate that it is not available when receiving PAL/SECAM signal.
Green	Darkens green only.	Lightens green only.	
Color	Decreases color Intensity .	Increases color Intensity.	
Tint	Enhances red and weakens green.	Enhances green and weakens red.	

# OPERATING INSTRUCTIONS (continued)

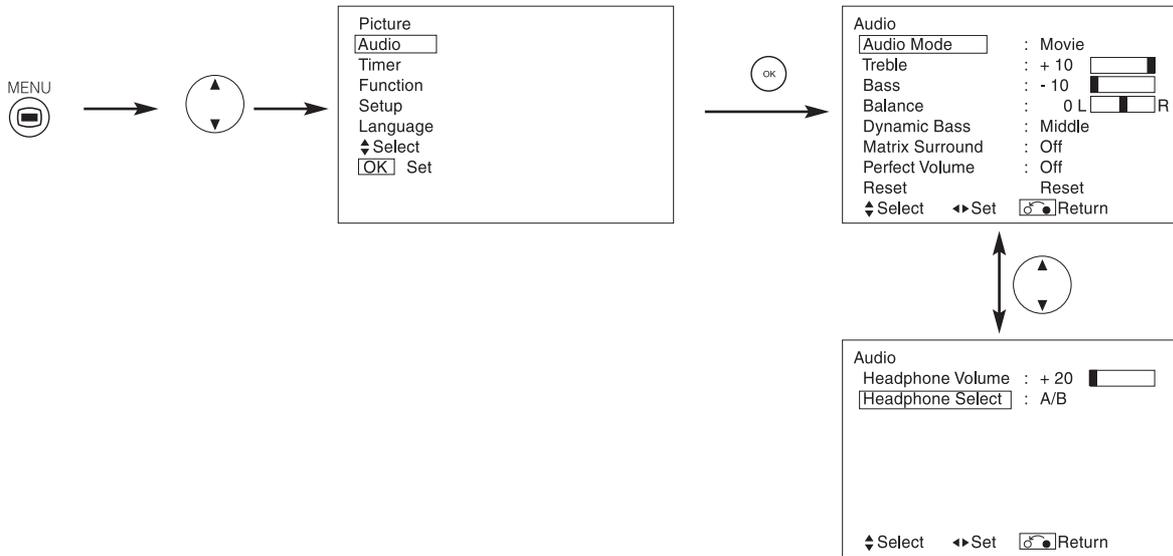
## PICTURE MENU (RGB mode)



Selected characters		◀	▶	Setup hint
Contrast		Narrows the gap between brightness and darkness.	Broadens the gap between brightness and darkness.	Adjust for maximum visibility to suit the ambient brightness. This can adjust further till [+40] by pressing and holding ▶ SELECT button at [+31]. The color for [+32] to [+40] numbers will change from green to magenta. This special mode is better for dark scenes. For brighter scene some parts of the picture might not be clear. We recommend to set at [+31].
Brightness		Black is subdued for increased overall darkness.	Black is set off for increased overall brightness.	Adjust to preference.
Color		Decreases color intensity.	Increase color intensity.	Adjust to preference.
Tint		Enhances red and weakens green.	Enhances green and weakens red.	This is not available to adjust when receiving PAL/SECAM signal. In this case the character will be grayed out. Adjust for most realistic skin color.
Picture Enhancement		Off ↔ Low ↔ Middle ↔ High		Sets the clarity of small details to the desired level.
Color Temperature		Cool ↔ Normal ↔ Warm ↔ Black / White		Normally set to Normal.
Color Temp. Adjust		Off ↔ On		Turn On when you wish to change color temperature is required to adjust depending on the user's preference.
Amplitude	Red	Brighter scene is decreased in reddish color.	Brighter scene is increased in reddish color.	Adjust color temperature depending on the user's preference. These settings are independently stored in each of the 4 Color Temperature modes.
	Green	Brighter scene is decreased in greenish color.	Brighter scene is increased in greenish color.	
	Blue	Brighter scene is decreased in bluish color.	Brighter scene is increased in bluish color.	
Cut Off	Red	Dark scene is decreased in reddish color.	Dark scene is increased in reddish color.	
	Green	Dark scene is decreased in greenish color.	Dark scene is increased in greenish color.	
	Blue	Dark scene is decreased in bluish color.	Dark scene is increased in bluish color.	
Back Light		Darkens the screen.	Brightens the screen.	Adjust to preference (for the maximum visibility).
Reset		(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.

# OPERATING INSTRUCTIONS (continued)

## AUDIO MENU



ENGLISH

Selected characters			Setup hint
Audio Mode			Movie: This selects the audio suitable for Movie. Music: This selects the audio suitable for Music. Speech: This selects the audio suitable for News, Talk show etc. Favorite: This mode should be adjusted depending on user's preference.
Treble	Suppresses treble.	Enhances treble.	Adjust to preference.
Bass	Suppresses bass.	Enhances bass.	Adjust to preference.
Balance	Suppresses right-side sound.	Suppresses left-side sound.	Adjust to preference.
Dynamic Bass			Dynamic Bass takes advantage of the ability of the human ear to be able to distinguish between two different tones. By using this ability, Dynamic Bass gives enhanced bass sound that otherwise would not be heard. Adjust it depending on the user's preference.
Matrix Surround			This features the spacious sound effects of a stadium.
Perfect Volume			This will automatically adjust volume so each channel and input has the same average volume level.
Reset	(off the function)	(waiting to reset)	The original factory settings for the items of this Menu page can be restored by pressing the OK button.
Headphone Volume	Turns down the volume.	Turns up the volume.	This is to set the volume for headphone. The audio from the speaker is mute when connected to headphone terminal.
Headphone Select			A/B: During the 2 pictures mode, the audio will be output from headphone on the screen which is selected between A (left picture) or B (right picture). The speaker icon is located on the selected picture. B: The audio of B (right picture) is output from headphone.

### NOTE

#### About the Headphone

- During PC input (RGB1/RGB2), the audio is not output from the headphone.
- Only with AV1 and AV6 inputs during the 2-pictures mode, even though select "B" from "Headphone Select", the audio of A (left picture) is always output from the headphone.

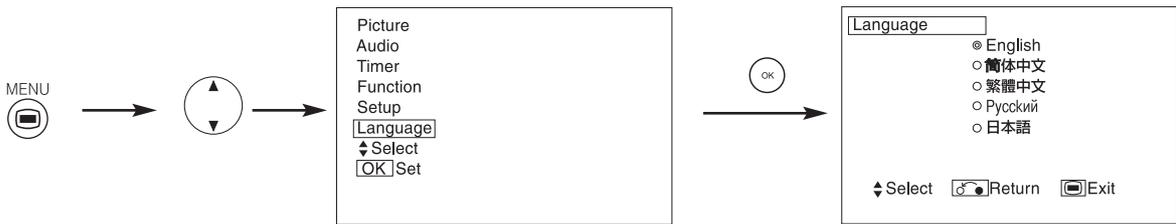
# OPERATING INSTRUCTIONS (continued)

## TIMER MENU



Selected characters	◀	▶	Setup hint
Off Timer	--Min. ↔ 30Min. ↔ 60Min. ↕ 120Min. ↔ 90Min. ↕		This function automatically sets the power to standby status when the indicated time period has elapsed.
On Timer	-- (:--) hours	(-- :)-- minutes	This automatically sets the power from standby to ON when the indicated time period has elapsed. The settable time is 00:00-11:59. Input the required time by ▲ and ▼ SELECT buttons on the remote control.

## LANGUAGE MENU



Select a language by ▲ and ▼ SELECT buttons and press the OK button.

# OTHER FEATURES

## Automatic Store

Approximately 1 sec. after adjustment is completed, the adjustments will be recorded as shown in the table below.

Menu	Display	Registration condition
Picture	Picture Mode	1 setting is registered.
	Contrast	For every input function and every Picture Mode, 1 setting is registered.
	Brightness	
	Color	
	Shapness	
	Tint	
	Color temperature	
	Contrast Mode	
	Back Light	
	YNR	
	CNR	
	Film Mode	
	PAL Comb Filter	
	LTI	
	CTI	
	Black Enhancement	
	Auto Color	
	Color Temp. Adjust	For every Color Temperature, 1 setting is registered.
	R Amplitude	1 setting is registered.
	G Amplitude	
	B Amplitude	
	R Cut Off	
	G Cut Off	
	B Cut Off	
	Color Management	For every input function and every Picture Mode, 1 setting is registered.
	Magenta	1 setting is registered.
	Red	
	Yellow	
	Green	
	Cyan	
	Blue	
	Color Decoding	—
Red	For every Color Temperature, 1 setting is registered.	
Green		
Color Tint	For every input function and every Picture Mode, 1 setting is registered.	
Audio	Audio Mode	1 setting is registered.
	Treble	For every Audio Mode, 1 setting is registered.
	Bass	
	Balance	
	Dynamic Bass	For every Audio Mode, 1 setting is registered.
	Matrix Surround	
	Perfect Volume	
	Headphone Volume	
	Headphone Select	

Menu	Display	Registration condition
Function	Screen Saver	1 setting is registered.
	Screen Wipe	(not registered)
	Black Side Panel	1 setting is registered.
	Video Power Save	
	Freeze Mode	
	Default Zoom	
	Setup	System
Color System		—
AV1		For every input function, 1 setting is registered.
AV2		
AV3		
AV4		
AV5		
Video Input		—
AV1		1 setting is registered.
AV2		
RGB1		(not registered)
RGB2		
Auto Adjust		(not registered)
Horizontal Position		For every signal Mode, 1 setting is registered. (Only for RGB2)
Vertical Position		
Horizontal Clock		
Clock Phase		
Input Level		
Frequency Display		
WVGA Type		
WXGA Mode		
Vertical Filter		
Frequency Mode		
Language	1 setting is registered.	

- The previously recorded items will be lost.
- The signal mode can be identified by the horizontal/vertical sync frequency and the sync signal polarity. Different signals with which all the elements are the same or similar will be handled as the same signal.

## OTHER FEATURES (continued)

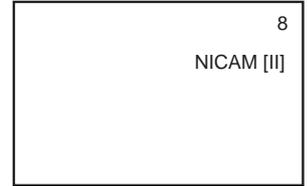
### Audio Switching

#### A2 / NICAM / Sound Multiplex (TV mode)

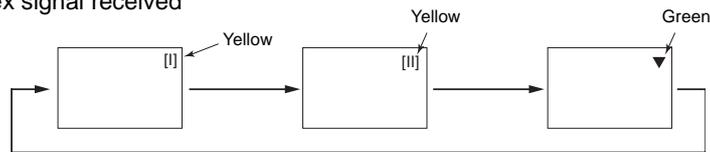
- The CH I / II button is only useful for NICAM and sound multiplex signals. Otherwise pressing this button will have no effect.

#### BILINGUAL / DUAL sound broadcast

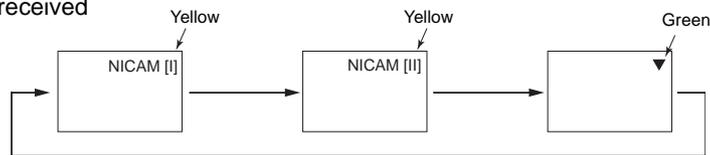
When bilingual program is received, sound mode display appears in yellow as shown on right. Press the CH I / II button to select the sound to be heard. Each time the button is pressed, I, II or ▼ (force mono) appear cyclically on the screen. When receiving NICAM signals, NICAM display will appear as below.



Sound multiplex signal received



NICAM signal received



Select I, II or ▼ (force mono) to hear the CH I, CH II or MONO broadcast respectively.

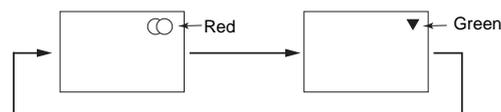
#### STEREO sound broadcast

When a stereo program is received, sound mode display will appear in red, and you can press the CH I / II button to select between stereo and mono sound.

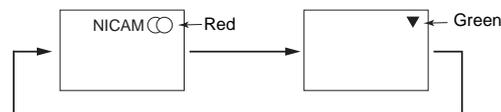
Each time the button is pressed, ○○ or ▼ (force mono) appear cyclically on the screen. When receiving NICAM signals, NICAM display will appear as below.



Sound multiplex signal received



NICAM signal received



Select ○○ or ▼ (force mono) to hear the STEREO or MONO broadcast respectively.

#### Monaural sound broadcast

When a monaural program is received, sound mode display will appear in green. You can press the CH I / II button to select the sound mode between monaural and forced mono (sound is same). Each time the button is pressed, ▽ or ▼ (force mono) appear cyclically on the screen.



#### NOTE

- If sound signal is not strong enough for quality reception, press the CH I / II button until ▼ appears on the screen to receive a clear mono sound.
- If sound has hiss noise or keep switching between stereo and mono mode due to signal condition, press the CH I / II button until ▼ appears on the screen to receive a clear mono sound.

## OTHER FEATURES (continued)

### Power Save Mode

When the RGB1, RGB2 input is selected

- When this unit is connected to a VESA DPMS computer, the Power Save (Off) mode can be set to be activated automatically when the computer is not being used to reduce power consumption by this 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	
Power consumption		158W		3W or less	

Returning to operating status

- Operate the personal computer, or press either the INPUT SELECT button of the main unit or the RGB1/RGB2 buttons of the remote control.

### DVD Player/ STB Selection

- You can use this remote control to operate the selected maker of DVD Player and STB by pressing the following buttons on the remote control simultaneously.

<"DVD" Selection>

Makers of DVD Player	Set Maker	Set Type	Makers of DVD Player	Set Maker	Set Type
HITACHI	①	① ~ ③	RCA	①	①
FUNAI	②	①	Mitsubishi		①
Pioneer	③	① ~ ⑥	ONKYO	RED	① ~ ③
Panasonic	④	① ~ ④	ZENITH	GREEN	①
TOSHIBA	⑤	① ~ ④	THOMSON	YELLOW	①
Philips	⑥	① ~ ②	SHINCO	BLUE	①
JVC	⑦	①	SKYWORTH		①
SAMSUNG	⑧	①	BUBUKO		①
Sony	⑨	① ~ ④	DENON		① ~ ②
Sharp	 2-4-12	① ~ ②			

<"SAT" Selection>

Makers of STB Player	Set Maker	Set Type
HITACHI	①	① ~ ②
TOSHIBA	②	①
DGTEC	③	①
Panasonic	④	①

## OTHER FEATURES (continued)

### DVD Player/STB Selection (continued)

Set up hint

Example) HITACHI DVD ①

To operate HITACHI DVD player, press and hold the **(i+)** button, followed by the **(1)** button.

**1. Set up the maker**

Press **(M)** button to indicate the DVD LED on the remote control.

While the DVD LED is flashing, press **(i+)** and **(1)**.

**2. Set up the maker type**

Release the **(1)** button while keeping **(i+)** button depressed.

Then, press the **(1)** button.

**3. Confirm the setting**

After setting the maker and type, press the POWER button on the remote control.

If the DVD does not switch on, repeat step 1 and 2 using other maker types as listed in the chart on **(43)**.

**NOTE**

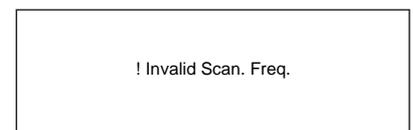
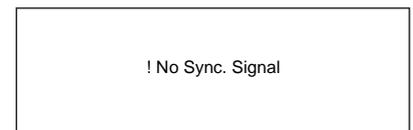
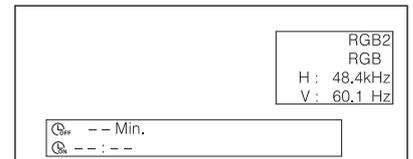
- Not all models of the listed makers can be operated using this remote control.

### Signal Check (RGB mode)

Changes in the signal status are displayed on the screen as they arise.

Status	Display	Action
When Frequency Display is set to ON, the input signal is switched or when the RECALL button is pressed.	A guide is displayed for the input terminal and the horizontal and vertical sync frequency.	_____
When the sync signal is no longer detected.	<ul style="list-style-type: none"> <li>• A guide displays No Sync. Signal, and Power Save (for approx. 5 sec.)</li> <li>• When the condition continues where the sync signal cannot be detected, indicator lamp of power source changes in orange and the mode switches to power save mode.</li> </ul>	Recheck the personal computer power switch status and the connection status.
When the input signal does not match the monitor specifications or is in an unstable status.	A guide displays Invalid Scan Freq.	Recheck the input signal specifications. <b>(50)</b> ~ <b>(52)</b>

**RGB**

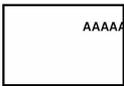
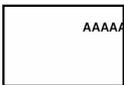


# TROUBLESHOOTING

## Symptoms That Seemingly Appear to be Failures

Make the checks suggested below depending on the symptoms observed. If the symptoms remain uncorrected, contact your dealer.

**⚠ WARNING**  
Customer servicing can be hazardous.

Symptom		Point to check	See page
<ul style="list-style-type: none"> <li>No picture with the power-indicating lamp off.</li> </ul>		<ul style="list-style-type: none"> <li>Check the way the power cable is connected.</li> <li>Press the power switch.</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">18</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">19</div>
<ul style="list-style-type: none"> <li>The message "No Sync. Signal" or "Power Save" is displayed.</li> <li>No picture with the power indicating lamp lights in orange.</li> </ul>	 	<p>No sync signal is detected.</p> <ul style="list-style-type: none"> <li>Check the way the signal cable is connected.</li> <li>Make sure that the switch of the computer, imaging equipment, etc., is turned on.</li> <li>Make sure the computer is not in the power-save mode.</li> <li>Check to see if the input selection matches the connection terminal.</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">15</div>
<ul style="list-style-type: none"> <li>The message "Invalid Scan Freq." is displayed.</li> </ul>		<p>An input signal is not received normally.</p> <ul style="list-style-type: none"> <li>Check to see if the input signal matches the monitor specifications.</li> <li>Check the way the signal cable is connected.</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">15</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">50</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">51</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">52</div>
<ul style="list-style-type: none"> <li>The power indicating lamp is normally lit but no picture.</li> </ul>		<ul style="list-style-type: none"> <li>Check the contrast and brightness settings (adjust them for higher contrast and brightness).</li> <li>Check the way the signal cable is connected.</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">15</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">36</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">38</div>
<ul style="list-style-type: none"> <li>The display image appears flowing slantwise.</li> <li>Text displayed across the screen appears vertically streaked, with the characters in vertical columns blurred.</li> </ul>	 	<ul style="list-style-type: none"> <li>Adjust the dot clock frequency and phase. (Adjust the dot clock frequency first, the dot clock phase next.) (RGB input)</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">32</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">47</div>
<ul style="list-style-type: none"> <li>Text displayed across the screen appears blurred.</li> <li>A fine pattern flickers when displayed on the screen.</li> </ul>	 	<ul style="list-style-type: none"> <li>Adjust the dot clock phase for the clearest viewing. (RGB input)</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">32</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">47</div>
<ul style="list-style-type: none"> <li>The remote control does not work.</li> </ul>		<ul style="list-style-type: none"> <li>Check to see if the batteries are loaded in the remote control in opposite direction.</li> <li>Check to see if the batteries in the remote control are OK.</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">9</div>
<ul style="list-style-type: none"> <li>The display image does not appear in the normal position.</li> </ul>		<ul style="list-style-type: none"> <li>Check to see if the displayed input signal match the monitor specification by pressing  button.</li> <li>Turn off the screen saver.</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">15</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">34</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">50</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">51</div> <div style="border: 1px solid black; padding: 2px; display: inline-block;">52</div>
<ul style="list-style-type: none"> <li>The display has lack of picture around the screen. (PC input mode only)</li> </ul>		<ul style="list-style-type: none"> <li>Turn off the screen saver.</li> </ul>	<div style="border: 1px solid black; padding: 2px; display: inline-block;">34</div>
<ul style="list-style-type: none"> <li>The temperature of the display panel surface is high.</li> </ul>		<ul style="list-style-type: none"> <li>The LCD monitor is lighting the fluorescent lamps inside of the panel. In some cases, this may cause the temperature of the panel surface to increase. Please note that this is not a malfunction.</li> </ul>	—

## TROUBLESHOOTING (continued)

### Symptoms That Seemingly Appear to be Failures (continued)

Symptom	Point to check	See page
<ul style="list-style-type: none"> <li>There are locations on the screen that are different from the periphery (*). * Points that do not light, points with brightness different from that of the periphery, points with color different from that of the periphery, etc.</li> </ul>	<ul style="list-style-type: none"> <li>High-precision technology is used to manufacture the LCD panel. However in some cases, there are minor defects in some parts of the screen. Please note that this is not a malfunction.</li> </ul>	—
<ul style="list-style-type: none"> <li>Coarse horizontal stripes appear in FULL display.</li> </ul>	<ul style="list-style-type: none"> <li>Adjusting the Clock Phase will reduce the horizontal stripes. (RGB input)</li> </ul>	32
<ul style="list-style-type: none"> <li>Flickering in the form of horizontal lines oscillating up and down. (PC INPUT MODE only)</li> </ul>	<ul style="list-style-type: none"> <li>If the direct frequency from the computer is below 85Hz, try a higher frequency (upper limit 85Hz). There may be a slight attenuation of the current image.</li> <li>Try turning the Vertical Filter On. For this case however, the vertical resolution will drop.</li> </ul>	33
<ul style="list-style-type: none"> <li>The top of the monitor heats up.</li> </ul>	<ul style="list-style-type: none"> <li>When used for long periods of time, the top of the monitor may heat up. This is not a malfunction.</li> </ul>	—
<ul style="list-style-type: none"> <li>Text characters are displayed with varying thicknesses.</li> </ul>	<ul style="list-style-type: none"> <li>The thicknesses of characters and lines may vary if images with a vertical resolution greater than 768 lines are displayed; however, this is not a malfunction.</li> </ul>	—
<ul style="list-style-type: none"> <li>The screen becomes dark and the images cannot be seen during VTR special playback (fast forward, rewind)</li> </ul>	<ul style="list-style-type: none"> <li>This sometimes occurs when a component output VTR such as the 480i is connected. This is not a malfunction; therefore, please take note that this may occur. When it does occur, change to composite output, or S.video output.</li> </ul>	—
<ul style="list-style-type: none"> <li>During multi picture mode, sub pictures are not displayed.</li> </ul>	<ul style="list-style-type: none"> <li>Sub pictures image might not be able to be displayed, depending on the combination. (Refer to the table of "2 pictures mode" and "4 pictures mode")</li> </ul>	26
<ul style="list-style-type: none"> <li>The screen display sizes are not switched.</li> </ul>	<ul style="list-style-type: none"> <li>The screen display size is fixed at "Full" as receiving 1080i/60Hz, 1080i/50Hz, and 720p/60Hz.</li> </ul>	—
<ul style="list-style-type: none"> <li>Images from AV6 (HDMI) are not displayed.</li> </ul>	<ul style="list-style-type: none"> <li>Check the cable and output format of connecting device. (Refer to "Connecting to an Audio Visual Device", and "Recommended Signal List".)</li> </ul>	13 50

# TROUBLESHOOTING (continued)

## Actions to Correct Abnormal Displays

Depending on the kind of system equipment used, images may not be displayed normally. In this case, make the adjustments suggested below. (only for RGB2)

Symptom 1	Text displayed across the screen appears vertically streaked, with some characters blurred (Figure 1).
Example	<p>Figure 1</p>
Adjustment procedure	<ol style="list-style-type: none"> <li>1) Press the MENU button. The Main Menu will be displayed.</li> <li>2) Press the ▼ SELECT button and select Setup.</li> <li>3) Press the OK button. The Setup Menu will be displayed.</li> <li>4) Press the ▼ SELECT button and select Auto Adjust.</li> </ol> <p>When adjustment is not possible with Auto Adjust</p> <ol style="list-style-type: none"> <li>5) Press the MENU button. The Main Menu will be displayed.</li> <li>6) Press the ▼ SELECT button and select Setup.</li> <li>7) Press the OK button. The Setup Menu will be displayed.</li> <li>8) Press the ▼ SELECT button and select Horizontal Clock. (Display fine patterns as characters or a vertical striped pattern over the entire screen during Horizontal Clock adjustment.)</li> <li>9) Press the ► or ◀ ADJUST buttons and search for clear characters over the entire screen.</li> <li>10) Perform adjustment for symptom 2 below, when the characters are blurred on the entire screen.</li> </ol>

- The display image may be momentarily disturbed during clock adjustment but this is not a failure.

Symptom 2	Text displayed across the screen appears blurred in its entirety (Figure 2). A fine pattern flickers when displayed on the screen (Figure 3).	
Example	<p>Figure 2</p>	<p>Figure 3</p>
Adjustment procedure	<ol style="list-style-type: none"> <li>1) Press the MENU button. The Main Menu will be displayed.</li> <li>2) Press the ▼ SELECT button and select Setup.</li> <li>3) Press the OK button. The Setup Menu will be displayed.</li> <li>4) Press the ▼ SELECT button and select Auto Adjust.</li> </ol> <p>When adjustment is not possible with Auto Adjust</p> <ol style="list-style-type: none"> <li>5) Press the MENU button. The Main Menu will be displayed.</li> <li>6) Press the ▼ SELECT button and select Setup.</li> <li>7) Press the OK button. The Setup Menu will be displayed.</li> <li>8) Press the ▼ SELECT button and select Clock Phase. (Display fine patterns as characters or a vertical striped pattern over the entire screen during Clock Phase adjustment.)</li> </ol> <hr/> <ol style="list-style-type: none"> <li>9) Press ► or ◀ ADJUST buttons to make the text appear clean across the screen.</li> </ol>	

## PRODUCT SPECIFICATIONS

Product specifications and designs are subject to change without notice.

<b>Panel</b>	<b>Display dimensions</b>	Approx.32 inches (698 (H) x 392 (V) mm, diagonal 800 mm)
	<b>Resolution</b>	1366 (H) x 768 (V) pixels
<b>Net dimensions</b>		1015(W) x 618 (H) x 340 (D) mm
<b>Net weight</b>		25.0 kg
<b>Ambient conditions</b>	<b>Temperature</b>	Operating: 5°C to 35°C, Storage: -15°C to 60°C
	<b>Relative humidity</b>	Operating: 20% to 80%, Storage: 20% to 90%(non-condensing)
<b>Power supply</b>		AC100-240V, 50/60Hz
<b>Power consumption/at standby</b>		158W/<1W /<2W ( only when DVI used )
<b>Audio output</b>		speaker 12W+12W (6Ω)
<b>(RGB input)</b>		
<b>Input terminals</b>		RGB1 DVI input terminal (DVI-D) RGB1 audio input terminal (3.5mm Stereo Mini Jack) RGB2 analog RGB input terminal (D-sub 15-pin) RGB2 audio input terminal (3.5mm Stereo Mini Jack)
<b>Input signals</b>		0.7 V/1.0 Vp-p, analog RGB (Recommended Signal) 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60
<b>Sync signals</b>		H/V separate, TTL level [2KΩ] H/V composite, TTL level [2KΩ] Sync on green, 0.3 Vp-p [75Ω]
<b>Recommended signal</b>		44 modes  
<b>(Video input)</b>		
<b>Input terminals</b>		AV1: composite video input terminal (RCA) AV1: Y/Pb/Pr video input terminal (RCA) AV1: L/R audio input terminal (RCA) AV2: composite video input terminal (RCA) AV2: Y/Pb/Pr video input terminal (RCA) AV2: L/R audio input terminal (RCA) AV3: composite video input terminal (RCA) AV3: S video input terminal AV3: L/R audio input terminal (RCA) AV4: composite video / L/R audio input terminal (RCA) AV5 = AV3 AV6: HDMI input terminal
<b>Input signals</b>		AV1: PAL, SECAM, NTSC3.58, NTSC4.43 AV1: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 AV2: PAL, SECAM, NTSC3.58, NTSC4.43 AV2: 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60 AV3: PAL, SECAM, NTSC4.43, NTSC3.58 AV4: PAL, SECAM, NTSC4.43, NTSC3.58 AV5 = AV3 AV6: HDMI input signal  .
<b>Output signal</b>		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor-output terminal (RCA) OUTPUT (HEADPHONE): L/R audio monitor-output terminal (Mini-pin)
<b>Recommended signal</b>		23 modes  
<b>(RF input)</b>		
<b>Input terminals</b>		ANT: 75Ω Unbalanced
<b>RF Video System</b>		PAL B, G, H / I / D, K SECAM B, G / D, K / K1 NTSC-M

- The monitor takes at least 30 minutes to attain the status of optimal picture quality.

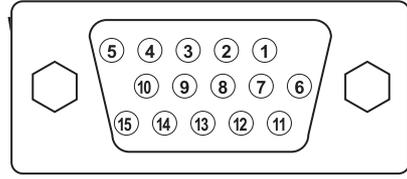
# PRODUCT SPECIFICATIONS (continued)

## Signal Input

RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R(P <sub>R</sub> /C <sub>R</sub> )
2	G or sync on green (Y)
3	B (P <sub>B</sub> /C <sub>B</sub> )
4	No connection
5	No connection
6	R.GND (P <sub>R</sub> /C <sub>R</sub> . GND)
7	G.GND (Y. GND)
8	B.GND (P <sub>B</sub> /C <sub>B</sub> . GND)
9	No connection
10	GND
11	No connection
12	[SDA]
13	H. sync or H/V composite sync
14	V.sync. [V.CLK]
15	[SCL]

( ) : With component input



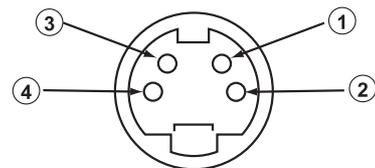
- When different kinds of input signals are simultaneously input to the monitor via a graphics board or the like, the monitor will automatically select the signals in the following priority order:

Sync signal type	Priority
H/V separate sync.	1
H/V composite sync.	2
sync.on Green *	3

\* Even in the case of the recommended signals shown on the following page, there may be instances when correct display is not possible. In this case, use H/V separate sync, H/V composite sync.

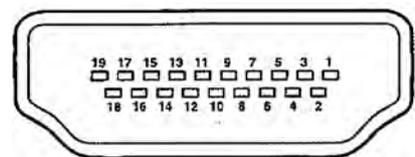
S-input connector pin specifications

Pin	Input signal
1	Y
2	Y-GND
3	C
4	C-GND
Frame	GND



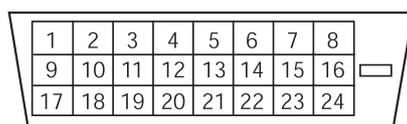
HDMI connector pin specifications

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 Data 1+	14	Reserved(N.C. on device)
5	TMDS Data1 Shield	15	SCL
6	TMDS Data1-	16	SDA
7	TMDS Data0+	17	DDC/CED Ground
8	TMDS Data0 Shield	18	+5V Power
9	TMDS Data0-	19	Hot Plug Detect
10	TMDS Clock+		



DVI terminal (DVI-D)

Pin	Input signal	Pin	Input signal
1	T.M.D.S. Data2-	14	+5V Power
2	T.M.D.S. Data2+	15	Ground (for+5V)
3	T.M.D.S. Data2/4 Shield	16	Hot Plug Detect
4	T.M.D.S. Data4-	17	T.M.D.S. Data0-
5	T.M.D.S. Data4+	18	T.M.D.S. Data0+
6	DDC Clock	19	T.M.D.S. Data0/5 Shield
7	DDC Data	20	T.M.D.S. Data5-
8	No Connect	21	T.M.D.S. Data5+
9	T.M.D.S. Data1-	22	T.M.D.S. Clock Shield
10	T.M.D.S. Data1+	23	T.M.D.S. Clock+
11	T.M.D.S. Data1/3 Shield	24	T.M.D.S. Clock-
12	T.M.D.S. Data3-	Frame	GND
13	T.M.D.S. Data3-		



## PRODUCT SPECIFICATIONS (continued)

### Recommended Signal List

Applicable video signals for input terminal (TV mode)

Terminal	RCA/S-video			HDMI	DVI		D-sub		Remarks
	Signal Name	CVBS	S-video		Component	PC	STB	RGB	
AV1	○			○					Refer to Setup Menu <a href="#">31</a>
AV2	○			○					Refer to Setup Menu <a href="#">31</a>
AV3	○	○							Refer to Setup Menu <a href="#">31</a>
AV4	○								Refer to Setup Menu <a href="#">31</a>
AV5	○	○							Refer to Setup Menu <a href="#">31</a>
AV6					○				
RGB1					○	○			Refer to Setup Menu <a href="#">33</a>
RGB2							○	○	Refer to Setup Menu <a href="#">33</a>

(○:Available)

With composite input(AV1~AV5 input) and S-video input (AV3, AV5 input).

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	NTSC4.43 NTSC3.58	525	59.94	15.73	—	
2	PAL SECAM	625	50.00	15.63	—	

With component input (AV1, AV2 and RGB2-component input).

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	576i	576	50.00	15.63	—	
2	480i	480	59.94	15.73	—	
3	576p	576	50.00	31.26	—	
4	480p	480	59.94	31.47	—	
5	1080i/50	1080	50.00	28.13	—	
6	1080i/60	1080	60.00	33.75	—	
7	720p/60	720	60.00	45.00	—	

With HDMI input (AV6 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	EIA-861B
2	576i	720(1440) x 576	50.00	15.63	27.00	EIA-861B
3	480i	720(1440) x 480	59.94	15.73	27.00	EIA-861B
4	576p	720 x 576	50.00	31.25	27.00	EIA-861B
5	480p	720 x 480	59.94	31.47	27.00	EIA-861B
6	1080i/50	1920 x 1080	50.00	28.13	74.25	EIA-861B
7	1080i/60	1920 x 1080	60.00	33.75	74.25	EIA-861B
8	720p/60	1280 x 720	60.00	45.00	74.25	EIA-861B

**PRODUCT SPECIFICATIONS (continued)**

**Recommended Signal List (continued)**

With Digital signal input.

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Setup Menu Condition		Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			DVI-PC	DVI-STB	
1	VGA	640 X 400	70.08	31.47	25.18	O		
2		640 X 480	59.94	31.47	25.18	O	O	
3	W-VGA	864 X 480	59.94	31.47	34.24	O		WVGA type: On
4	VESA	640 X 480	72.81	37.86	31.50	O		
5		640 X 480	75.00	37.50	31.50	O		
6		640 X 480	85.01	43.27	36.00	O		
7		800 X 600	56.25	35.16	36.00	O		
8		800 X 600	60.32	37.88	40.00	O		
9		800 X 600	72.19	48.08	50.00	O		
10		800 X 600	75.00	46.88	49.50	O		
11		800 X 600	85.06	53.67	56.25	O		
12		1024 X 768	60.00	48.36	65.00	O		
13		1024 X 768	70.07	56.48	75.00	O		
14	1024 X 768	75.03	60.02	78.75	O			
15	480p	720 X 480	59.94	31.47	27.00		O	EIA-861B
16	576p	720 X 576	50.00	31.25	27.00		O	EIA-861B
17	720p/60	1280 X 720	60.00	45.00	74.25		O	EIA-861B
18	1080i/60	1920 X 1080	60.00	33.75	74.25		O	EIA-861B
19	1080i/50	1920 X 1080	50.00	28.13	74.25		O	EIA-861B

(O:Acceptable)

## PRODUCT SPECIFICATIONS (continued)

### Recommended Signal List (continued)

With Analog signal input (RGB2 input)

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (MHz)	Remarks
	Signal Name	Resolution	Vertical frequency (Hz)			
1	VGA	640 X 400	70.08	31.47	25.18	
2		640 X 480	59.94	31.47	25.18	
3	W-VGA	864 X 480	59.94	31.47	34.24	WVGA type: On
4	VESA	640 X 480	72.81	37.86	31.50	
5		640 X 480	75.00	37.50	31.50	
6		640 X 480	85.01	43.27	36.00	
7		800 X 600	56.25	35.16	36.00	
8		800 X 600	60.32	37.88	40.00	
9		800 X 600	72.19	48.08	50.00	
10		800 X 600	75.00	46.88	49.50	
11		800 X 600	85.06	53.67	56.25	
12		1024 X 768	60.00	48.36	65.00	
13		1024 X 768	70.07	56.48	75.00	
14		1024 X 768	75.03	60.02	78.75	
15		1024 X 768	85.00	68.68	94.50	
16		1152 X 864	75.00	67.50	108.00	
17		1280 X 1024	60.02	63.98	108.00	
18		1280 X 1024	75.03	79.98	135.00	
19		1280 X 1024	85.02	91.15	157.50	
20		1600 X 1200	60.00	75.00	162.00	
21		1600 X 1200	75.00	93.75	202.50	
22		1600 X 1200	85.00	106.25	229.50	
23		Macintosh	640 X 480	66.67	35.00	30.24
24	832 X 624		74.55	49.72	57.28	
25	1024 X 768		74.93	60.24	80.00	
26	1152 X 870		75.06	68.68	100.00	
27	W-XGA	1280 X 768	59.833	47.986	81.00	
28		1280 X 768	69.997	56.137	94.760	
29	W-XGA	1280 X 768	59.876	47.776	79.50	WXGA Mode:1280X768
30		1366 X 768	60.015	47.712	85.50	WXGA Mode:1366X768

- The type of video board or connecting cable used may not allow for correct displays adjustment of Horizontal Position, Vertical Position, Horizontal Clock and Clock Phase.
- The monitor may fail to display an animation image correctly when a signal having a vertical frequency of 85Hz or higher is input to it.
- The monitor 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.
- Displaying images with more than 768 lines of vertical resolution at Full display (compressed display) can result in the interpolation of stripes.