

USER'S MANUAL

Thank you for purchasing the SuperScan Plasma Display TV. Before using your TV, please read the "SAFETY INSTRUCTIONS" and this "USER'S MANUAL" carefully to learn how to operate the TV properly. Keep this manual in a safe place. You will find it useful in the future.

Notes on Installation

This product is marketed with the assumption that it is to be installed by qualified personnel with relevant skills and competence. It is recommended to consult with an installation specialist or your dealer install and set up the product. SuperScan cannot assume liabilities for damages caused by improper installation or mounting, misuse, modifications or natural disasters.







IMPORTANT SAFETY INSTRUCTIONS

SAFETY POINTS THAT YOU SHOULD KNOW ABOUT YOUR Superscan PLASMA TV

Our reputation has been built on the quality, performance, and ease of service of Superscan Plasma TV.

Safety is also foremost in our minds in the design of these units. To help you operate these products properly, this section illustrates safety tips which will be of benefit to you. Please read it carefully and apply the knowledge you obtain from it to the proper operation of your Superscan Plasma TV.

Follow all warnings and instructions marked on this TV.

 <div style="text-align: center;">CAUTION</div> <div style="text-align: center;">RISK OF ELECTRIC SHOCK</div> <div style="text-align: center;">DO NOT OPEN</div> 	 <p>The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>
<p>CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE THE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.</p>	 <p>The exclamation point within an equilateral triangle, is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>

WARNING:

- TO AVOID FIRE OR ELECTROCUTION, DO NOT EXPOSE THIS MONITOR TO RAIN OR MOISTURE.
- THE MONITOR SHOULD NOT BE EXPOSED TO DRIPPING OR SPLASHING AND OBJECTS SUCH AS VASES FILLED WITH LIQUIDS, SHOULD NOT BE PLACED ON THE TV.

NOTE:

- There are no user serviceable parts inside the TV.
- Model information and serial numbers are indicated on the rear side of the TV.


CAUTION: Adjust only those controls that are covered in these instructions, as improper changes or modifications not expressly approved by Superscan could void the user's authority to operate the TV.

MODIFICATIONS: The FCC requires that the user be notified that any changes or modifications made to this device, that are not expressly approved by Superscan may void the user's authority to operate the equipment.

POWER SOURCE

THIS TV IS DESIGNED TO OPERATE ON 120 VOLTS 60Hz, AC CURRENT. INSERT THE POWER CORD INTO A 120 VOLT 60Hz OUTLET.

TO PREVENT ELECTRIC SHOCK, DO NOT USE THE TV'S (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE, OR OTHER OUTLET UNLESS THE BLADES AND GROUND TERMINAL CAN BE FULLY INSERTED. THIS IS TO PREVENT BLADE EXPOSURE. NEVER CONNECT THE TV TO DIRECT CURRENT OR ANYTHING OTHER THAN THE SPECIFIED VOLTAGE.


 **CAUTION:** Never remove the back cover of the TV as this can expose you to very high voltages and other hazards. If the TV does not operate properly, unplug the TV and call your authorized dealer or service center.



IMPORTANT SAFETY INSTRUCTIONS

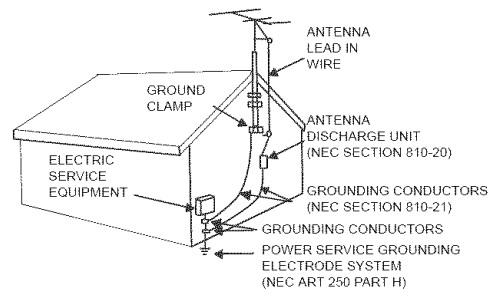
Read before operating the appliance

Follow all warnings and instructions marked on this TV.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this appliance near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and at the point where they exit from the appliance.
11. Only use the attachments/accessories specified by the manufacturer.
12.  Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the appliance. When a cart is used, use caution when moving the cart/appliance combination to avoid injury from tip-over.
13. Unplug this appliance during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way, such as when a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.
16. Do not expose this appliance to dripping or splashing. Do not place objects filled with liquids on this appliance.

Do not place any objects on top of the TV. They may fall or cause a child to climb up to retrieve the objects.

17. The Shock Hazard Marking and Associated Graphical Symbol is provided on the bottom panel of the unit.
18. This appliance is designed to comply with the recommended safety standards for tilt and stability. Do not pull the cabinet with excessive force. Doing so can cause the product to overturn, resulting in damage to the product and/or personal injury.
19. Follow instructions for wall, shelf, or ceiling mounting as recommended by the manufacturer.
20. An outdoor antenna should not be located in the vicinity of overhead power lines or other electrical circuits.
21. If an outdoor antenna is connected to the receiver, ensure that the antenna is grounded to provide some protection against voltage surges and built up static charges. Section 810 of the National Electric Code, ANSI/NFPA No. 70-1984, provides information with respect to proper grounding for the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding connectors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode.



NEC NATIONAL ELECTRICAL CODE

Note to the CATV system installer: This reminder is intended to point the CATV system installer to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable's ground wire shall be connected to the grounding system of the building, as close to the point of cable entry as possible.

Disposal of this product may require specific instructions pertaining to your resident state. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.



CAUTION: PREVENTION OF SCREEN BURN IN

Continuous on-screen displays such as video games, stock market quotations, computer generated graphics, and other fixed (non-moving) patterns can cause permanent damage to the TV. Such "SCREEN BURN IN" constitute misuse and are NOT COVERED by your SEARS Factory Warranty.

PUBLIC VIEWING OF COPYRIGHTED MATERIAL

Public viewing of programs broadcast by TV stations and cable companies, as well as programs from other sources, may require prior authorization from the broadcaster or owner of the video program material.

Important

Please read this User's Manual thoroughly, especially the Important Safety Instructions on Pages 2 to 3 and 6 to 10. Misuse may cause damage to your plasma TV and could shorten its lifespan, or may even cause injury to yourself. Should you encounter any difficulty in the set-up or operation of your TV, refer to the Troubleshooting guide at the back of this manual.

In the unlikely event that there is a problem with your plasma TV, switch off the power and unplug the TV, and contact your dealer immediately.

CAUTION

Under no circumstances should you remove the back cover of your plasma TV.

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, to the extent permitted by law.

Plasma TV

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

To prevent scratches or damages to the plasma 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 the control panel of the TV. When excessively soiled, dilute a neutral detergent in water, wet and wring out the soft cloth, then wipe the TV and afterwards wipe it off with a dry soft cloth.

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

FEATURES

Enhanced definition plasma display panel

The 42-inch color plasma display panel, with a resolution of 852 (H) x 480 (V) pixels, creates a widescreen picture. This panel features a thin form factor and can be hung on a wall with an optional wall mounting kit.

High Performance Digital Processor

This panel displays a wide range of personal computer signals from 640 x 400, 640 x 480 VGA to 1600 x 1200 UXGA.(RGB Analog input)

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

The included remote control operates all TV functions. Further, the on-screen display system, shows the status of the 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.

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Notes 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, when 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 Plasma TV 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 users and to prevent property damage. The meaning of these symbols are described below. It is important that you read these descriptions thoroughly and fully understand the contents.



This symbol indicates information that, if ignored, could possibly result in personal injury or even death due to incorrect handling.



This symbol indicates information that, if ignored, could result possibly 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 adjacent to the symbol (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 adjacent to the symbol. (the symbol to the left indicates that the power plug should be disconnected from the power outlet).



Never use the TV 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, can cause a fire or electrical shock.

In such cases, 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 cleared, contact your dealer. Never attempt to make repairs yourself because this could be dangerous.



Disconnect the plug from the power outlet.

Do not insert foreign objects or pour liquids inside the TV.

Penetration of liquids or foreign objects could result in a fire or electrical shock. Use special caution in households where children are present.

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

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



Do not disassemble.

Never disassemble or modify the TV.

The TV contains high voltage components. Modification could result in a fire or electrical shock.

- Never remove any cover.

Do not subject the TV to shock or impact.

If the TV is subject to shock and/or is broken, it could result in an injury, and continued use in such a state 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 TV on an unstable surface.

If the TV should be dropped and/or broken, it could result in an injury, and continued use in such a state could result in fire or electrical shock. Do not place the TV on an unstable, slanting or vibrant surface such as a wobbly or inclined stand.

Do not obstruct the ventilation of the TV.

If ventilation is obstructed during the operation of the TV or just after switching off the power, it could result in damage and shorten the lifespan of your TV 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 TV and other objects such as walls.
- Do not place anything around ventilation openings of the TV.
- Never block ventilation openings.
- Do not put the plasma screen side up.
- Do not cover the TV with a tablecloth, etc.
- Do not place the TV 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 the correct power outlet depending on the indication on the TV and the safety standard.

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



SAFETY INSTRUCTIONS (continued)



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.



Be sure to ground the connection properly.

- Connect the ground terminal of the AC inlet of this TV 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.



Surely connect the ground wire.

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

Do not use damaged power cords or cables as they can cause a fire or electrical shock. Do not apply excessive 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 TV or other heavy objects on the power cord and cables. Also, do not place a spread, cover, etc., over them as 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 power cord near a heater.
- Do not touch the power plug just after disconnecting it from the power outlet. The static discharge can cause an electric shock.
- Do not touch the power plug during a lightning storm.
- Avoid coiling the power cord and bending it sharply.
- Protect the power cord from being walked on or pinched at particularly at plugs, conveniences receptacles, and at the point where they exit from the panel.
- Do not modify the power cord.



Be careful when handling the batteries of the remote control.

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

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



SAFETY INSTRUCTIONS (continued)

CAUTION

Be careful in moving the TV.

Neglect could result in an injury or damage.

- Do not move the TV during use. Before moving, disconnect the power plug and all external connections.
- Get the help of another person if you find it difficult to move the TV alone.
- Avoid any impact or shock to the TV; in particular take care of the glass screen.



Do not put anything on top of the TV.

Placing anything on top of the TV could result in loss of balance or falling, and can cause an injury or damage. Take special care in households where children are present.



Avoid a humid or dusty place.

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



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

Avoid a high temperature environment.

The heat could have adverse influence on the TV and its components, and could result in transformation, melting or fire.

- Do not place the TV, the remote control and other parts in direct sunlight or near a hot object such as heater, etc.
- Do not put the TV in a place where the temperature varies rapidly.



Remove the power cord when not using the TV for a long time.

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



Disconnect the plug from the power outlet.

PRECAUTIONS

• Installation environment

Do not obstruct the ventilation slots.

Do not place the TV on a carpet or blanket, or near a curtain or anywhere else where there is a possibility of obstructing the ventilation slots of the TV.

Do not place the TV in the following places.

- Hot places such as near heaters, or in places exposed to the direct rays of the sun.
- Places where the temperature varies rapidly.
- Places with soot, dust or high humidity.
- Places with poor ventilation.
- Places such as near a fire.
- Wet places such as bathrooms, or shower rooms.
- Places where you can trip over the TV.
- On objects that vibrate.
- On objects that are unstable.

• How to view the TV

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

Use it in a reasonably bright room.

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

Your eyes will get tired after viewing the TV for long periods of time.

Relax your eyes by looking away from the TV from time to time.

Please watch the TV in downward direction.

• Notes on image retention

The plasma TV illuminates phosphors to display images. The phosphor particles have a finite illumination life. After extended periods of illumination, the brightness of the phosphors will degrade to such an extent that stationary images would burn-in the relevant part of the screen and appear as grayed-out images.

Tips to prevent such image retention:

- Do not display images having sharp brightness differences or high-contrast images, such as monochrome characters and graphic patterns, for long periods of time as this can cause ghost images to form on the screen.
- Do not display stationary images for extended periods of time, but try to change them at appropriate intervals of time, or use screen savers.
- Turn down the contrast and brightness controls.

• How to clean the plasma screen panel of the TV

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

To prevent scratching or damaging the plasma 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. 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 TV

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

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

SAFETY INSTRUCTIONS (continued)

• Prevention of an obstacle to Radio receivers

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

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

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

If you find a problem receiving Radio when using the TV, 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 TV 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 TV because it is heavy.

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

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

Save the original carton box and all packing material.

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 TV.

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!

SAFETY INSTRUCTIONS (continued)

• FCC (Federal Communications Commission) STATEMENT WARNING

For model SSH2442

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from where the receive is connected.
- Consult the dealer or an experienced radio / TV technician for help.

Instructions to Users: This equipment complies with the requirements of FCC (Federal Communication Commission) regulations, provided that following conditions are met.

Video inputs: The input signal amplitude must not exceed the specified level.

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Declaration of Conformity

According to 47CFR, Part 2 and 15 for
Class B Personal Computers and

Peripherals; and / or
CPU Boards and Power Supplies used
with Class B Personal Computers:

We: Hitachi America, Ltd. Home Electronics division
Located at: 900 Hitachi Way Chula Vista, CA 91914, U.S.A.
Telephone: 1-800-HITACHI

Declare under sole responsibility that the product identified herein, complies with 47CFR Part 2 and 15 of the FCC rules as a Class B digital device. Each product marketed, is identical to the representative unit tested and found to be compliant with the standards. Records maintained continue to reflect the equipment being produced can be expected to be within the variation accepted, due to quantity production and testing on a statistical basis as required by 47CFR § 2.909. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation. The above named party is responsible for ensuring that the equipment complies with the standards of 47CFR § §1 5.101 to 15.109.

Trade name: Plasma Display TV

Model Number: SSH2442

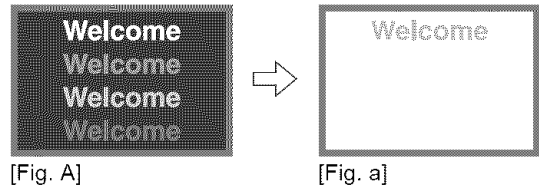
Prevention of Screen Burn-In

There are different characteristics that result in panel image retention depending on how the plasma display is used.

Image retention or screen burn-in characteristics of a plasma display

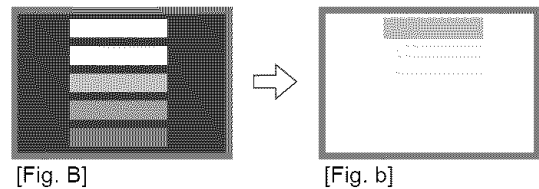
The image retention phenomenon can occur on any TV.

For example, when the character image as shown in Fig. A at the right is continuously displayed for a long period of time, then, only part of the phosphors displayed age. Consequently, when a white image is displayed on the entire screen as shown in Fig. a, the character marks displayed up to that time will become visible to the eye.



The degree of image retention or screen burn-in is proportional to the brightness of the characters and figures displayed as well as the display time.

- The tendency of the phosphor to breakdown will depend on the age of the plasma display. When images of figures with different levels of brightness, as shown in Fig. B, are continuously displayed for a long period of time, image marks at locations where the brighter figures are present, are noticeable.



* The image retention images in this document are overdrawn for the purpose of explanation. The actual manner in which the image retention is seen differs depending on the operation time and brightness.

Methods to Reduce the Occurrence of Image Retention

- Lower the Contrast and Brightness settings of the plasma display as much as possible.

Notes

About screen defects

- High precision technology is used in the making of plasma panels but over the life of the panel, there may be dark spots (points that do not illuminate) and bright spots (points that are too bright) that appear. These do not indicate a malfunction or defect.

About residual images

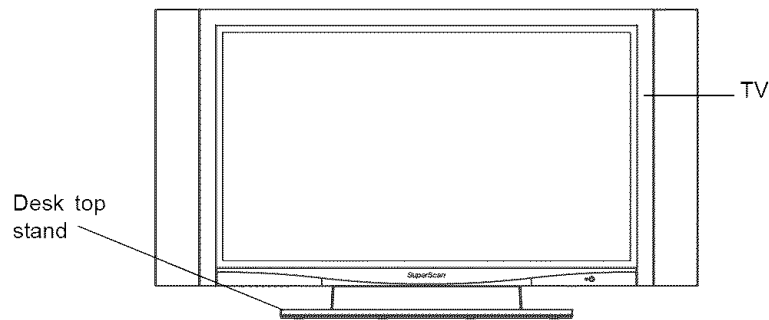
- In some cases, residual images may remain after a short-term display of still images and after another image has been displayed. These will disappear over time and the display will return to normalcy. This is not a malfunction.

About the panel screen

- Plasma display images by means of electrical discharges inside the panel. Because of this, the temperature of the panel surface may rise in some cases. Also, plasma displays are made of finely processed glass. Although a reinforced glass filter is installed over the panel surface, avoid strong impact because there is still a danger of glass breakage.

INSTALLATION INSTRUCTIONS

Desk Top Stand

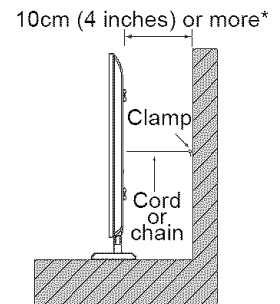


WARNING

Use one of the special mounting units to install this product. A mounting unit 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 mounting units or improper installation.

CAUTION

- Do not attempt installation of the wall mounting unit and ceiling mounting unit by yourself as it can be dangerous. Ask your dealer to provide the name of a qualified technician.
- In order to prevent overheating, maintain a space of 10cm (4 inches: For a desktop setup) or more between the sides of the TV and other objects such as walls, etc., so that the ventilation holes are not blocked.

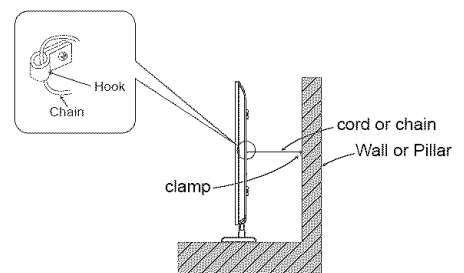


Anti-Tipping Prevention

CAUTION

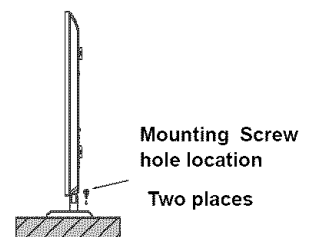
Have this unit mounted in a stable place. Take measures to prevent it from tumbling down to avoid possible physical injury.

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



1) Using screws (two), fasten the desktop stand using the two screw holes on the rear of the stand as shown.

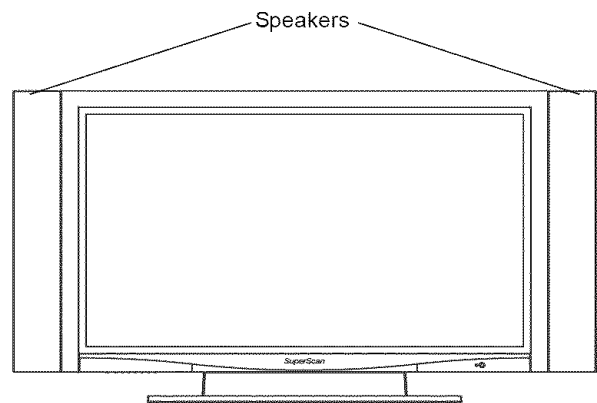
2) Using commercially available screws, secure the set firmly in position.



INSTALLATION INSTRUCTIONS (continued)

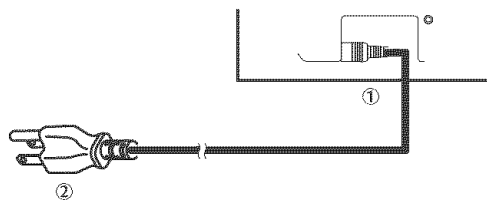
Mounting the Speakers

Refer to the installation instructions concerning mounting of the speakers.
Please refer to speaker installation manual.



Power Cord Connection

Connect the power cord, after completing all other connections.



Connect the power cord to the rear of the TV.
Connect the power cord plug to the power outlet.
(The type of plug is different from this drawing for some countries.)

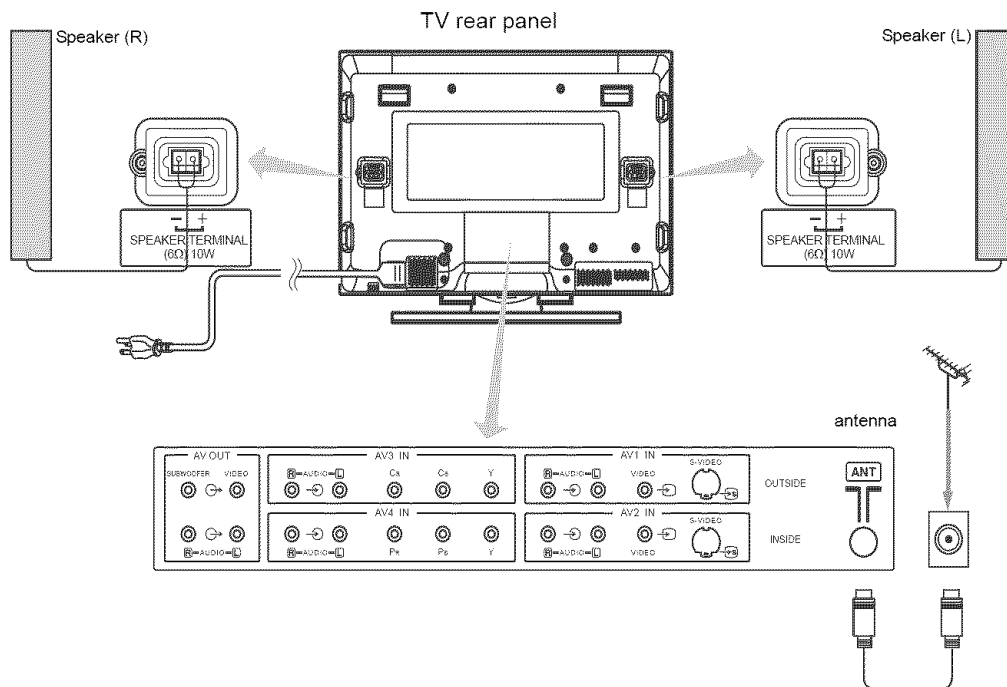
CAUTION

- 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.

INSTALLATION INSTRUCTIONS (continued)

Connecting Antenna / Cable TV Signal

Make sure that the power switch of the TV is turned off.



Precautions when connecting the antenna

- Use a coaxial cable which is free from interference. Avoid using a parallel flat wire as interference may occur, causing the reception to become unstable and noise to appear on the screen.
- Avoid using an indoor antenna as this may be affected by interference and poor reception.
- Keep the power cord as far away from the antenna wire as possible.
- Auto Tuning please refer to page 25.

VHF(300-Ohm) antenna / UHF antenna

When using a 300-ohm twin lead from an outdoor antenna, connect the VHF or UHF antenna leads to the screws of the VHF or UHF adapter. Plug the 300-ohm to 75-ohm adapter into the antenna terminal on the TV.

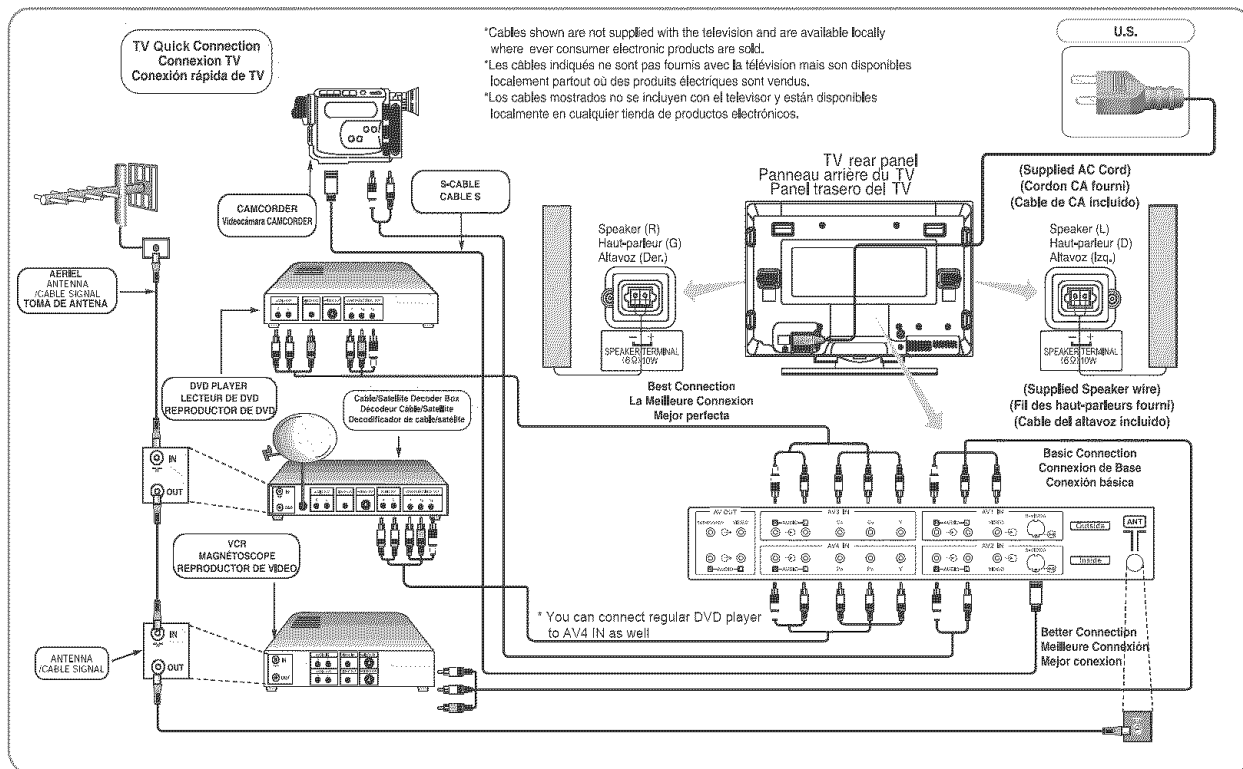
When both VHF and UHF antennas are combined

Attach an optional antenna cable signal combiner to the TV antenna terminal, and connect the cables to the antenna mixer. Consult your local electronics retailer.

INSTALLATION INSTRUCTIONS (continued)

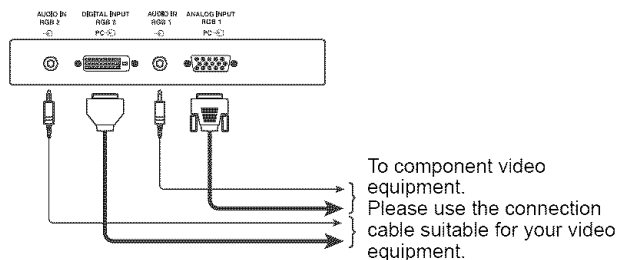
Connecting to Video Components

- (1) Make sure that the power switch of the TV is turned off.
- (2) Make sure that the power switch of the Video component is turned off.



[An example of connecting video components]

With DVI-D and RGB component setup



- If the OUTPUT (MONITOR) terminal is connected to a 2nd monitor, it is possible to view the same image as on the main source. The composite video signal from AV1, AV2 input will be displayed on both screens at the same time.

Applicable video signals for each input terminal

(See page 42~45 for details)

Terminal	RCA			DVI		D-sub		Remarks
	Composite	S-video	Component	PC	STB	RGB	Component	
AV1	○	○						
AV2	○	○						Refer to P21
AV3			○					480i Video Signal only
AV4			○					1080i/720P/480P/480i inputs. Refer to p21
RGB1						○	○	Refer to p21
RGB2				○	○			Refer to p21

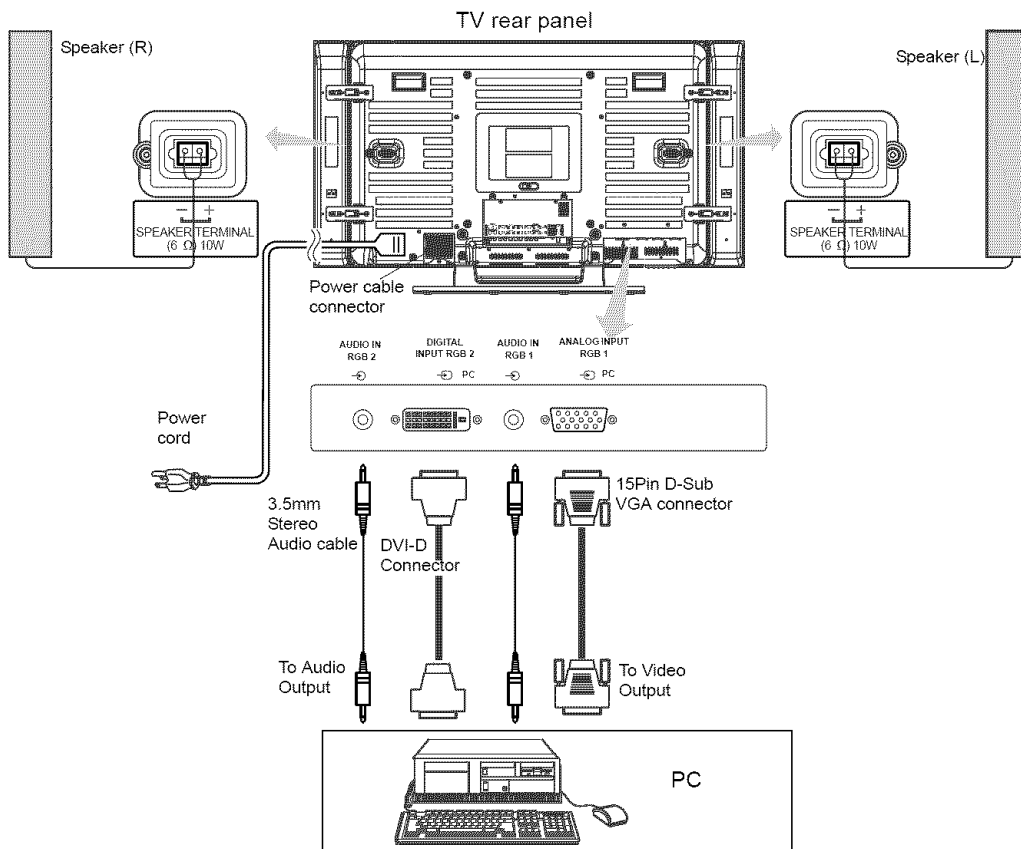
(○: Available)

INSTALLATION INSTRUCTIONS (continued)

- Choose an appropriate site and install the product on a level table where the stand is secure.
 - Ensure that a power socket is readily accessible near the place where you install the TV.
- Make sure that the power switch of this device is turned off.

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.
- (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.



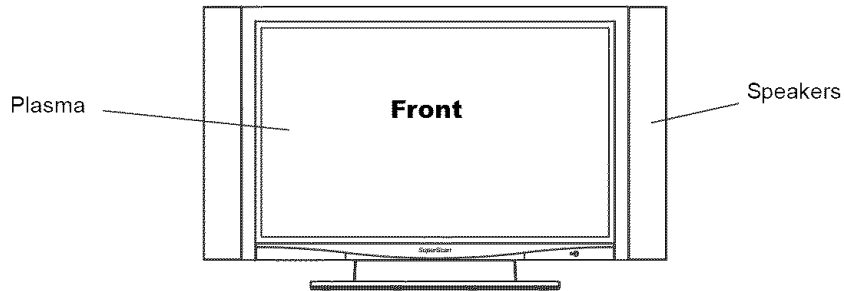
Note

- Please refer to the caution regarding prevention of screen burn in on page 3.

Subwoofer Output provides a single un-amplified audio output that passes along the audio signal from the plasma TV.
 Note: When using a Home Theater audio system with this plasma TV, please connect the sub woofer (if originally supplied with the audio system) directly to the Home Theater components subwoofer terminal.

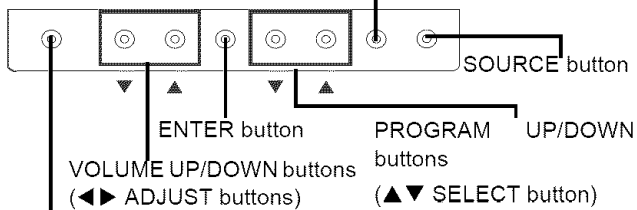
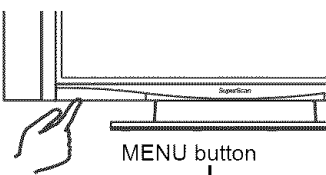
COMPONENT NAMES

Main Unit



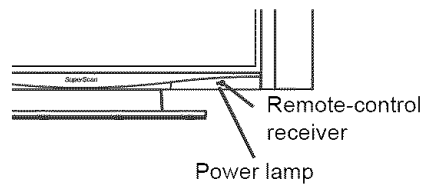
Control panel

- Adjustment buttons are located on the bottom.
- The back cover is provided with indications to distinguish the adjustment buttons.



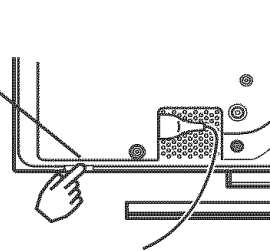
SUB-POWER button (See page 20, ②)

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



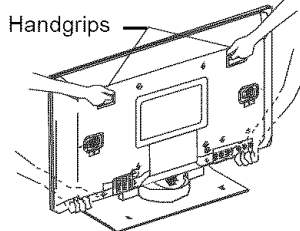
Main power switch (See page 20, ①)

The main power switch is located at the back, on the lower surface.

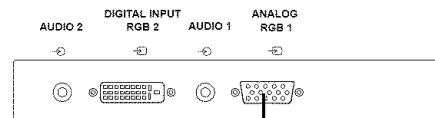
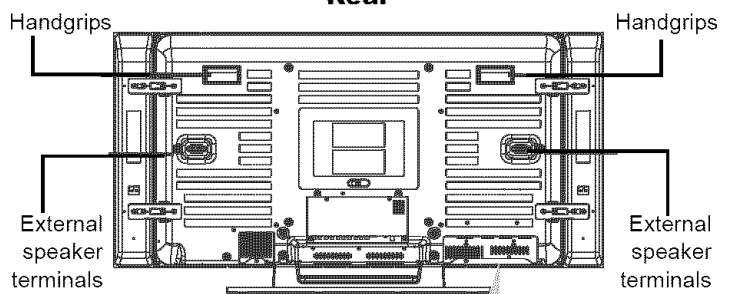


Caution when moving the main unit

- 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 lifted forwards using the two handgrips at the back, and the unit should then be held at the base on both sides for stability.



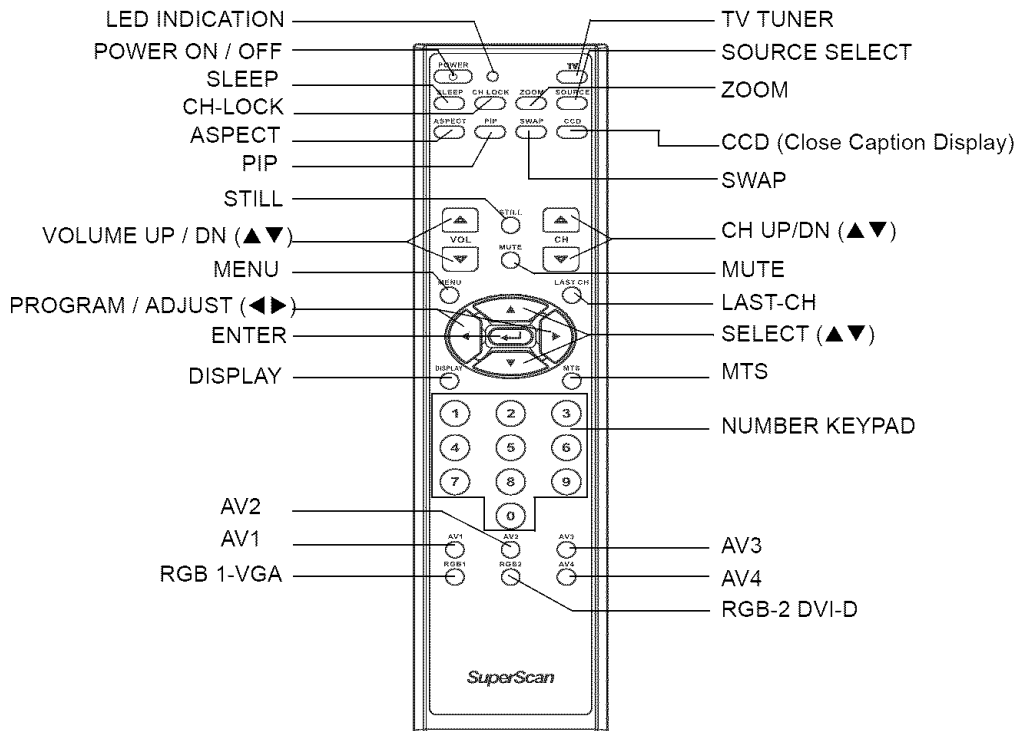
Rear



RGB input terminals

COMPONENT NAMES (continued)

Remote Control



Installing the Batteries

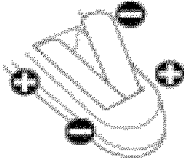
1. Open the battery cover.

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



2. Installing the batteries.

- Install two included Size AA batteries 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.

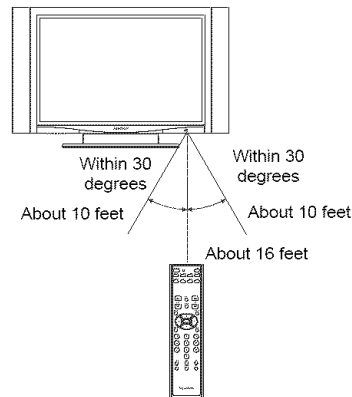


CAUTION

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

Handling the Remote Control

Use the remote control within about 16 feet from front of the unit's remote-control sensor and within 30 degrees on both sides.



ATTENTION

- Do not drop the remote control.
- To avoid possible failures, do not splash the remote control with water or put it on a wet object.
- If leaving the remote control out of use for an extended period of time, remove the batteries from it.
- If the remote control does not respond properly, replace the batteries.
- Strong light such as direct sunlight exposed 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)

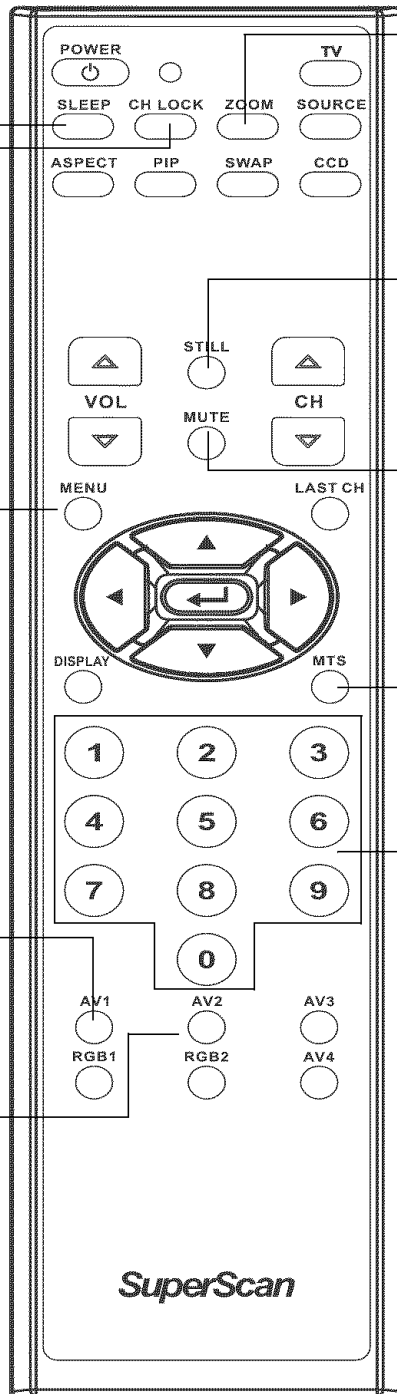
SLEEP
Press this button to select the Sleep Timer mode.

CH-LOCK
Press this button to select the V-chip function.

MENU
Press this button to select the On Screen Display Menu

AV1
Press this button to select the VIDEO 1 or S-VIDEO 1 INPUT function.

AV2
Press this button to select the VIDEO 2 or S-VIDEO 2 INPUT function.



ZOOM
Press this button to change the picture size

STILL
Press this button to freeze the picture. Press it again to return to normal operation.

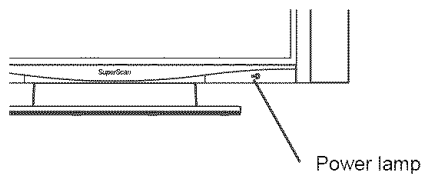
MUTE
Press this button to turn off the sound, Press it once more or press the ▲ volume up button to return the sound.

MTS
Press this button to select Multi-channel television sound. This is to be used only in the TV mode.

NUMBERS KEYPAD
Press these buttons to access the corresponding TV channels.

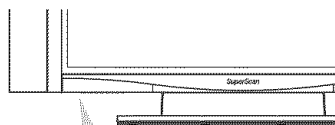
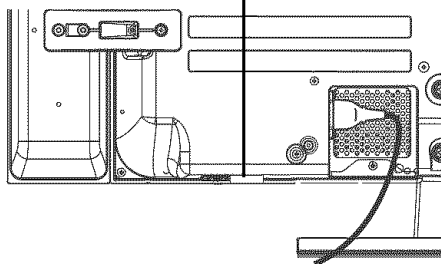
SuperScan

OPERATING INSTRUCTIONS

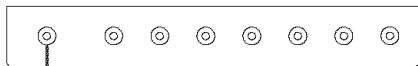


Main power switch

1

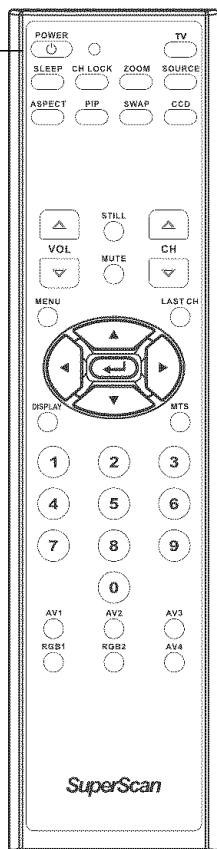


2



SUB-POWER button

POWER ON/OFF button



Turning Power On and Off

- ① To turn the TV power ON, press the main power switch on the main unit to ON; the power lamp will light and turn to green, the TV will turn on.
- ② To turn the TV power ON/OFF, press the SUB POWER button or the ON/OFF button on the remote control.

• Note: During normal use, the main power switch is set in the ON position.

Power lamp

Power lamp	TV status	Operation
Off	Off	When the main power switch is set to OFF.
Lights red	Off (standby)	When the main power switch is ON, and the OFF button on the remote control or the SUB POWER button on the underside of the front of the frame is OFF.
Lights green	On	When the main power switch is ON, and the ON button on the remote control or the SUB POWER button on the underside of the front of the frame is ON.
Lights orange	Off (Power Save)	When the main power switch is ON, and the PC is in power save mode.

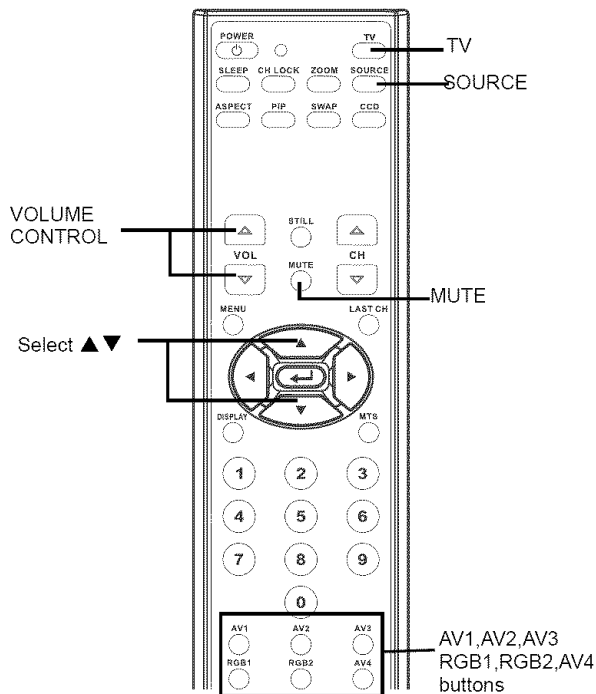
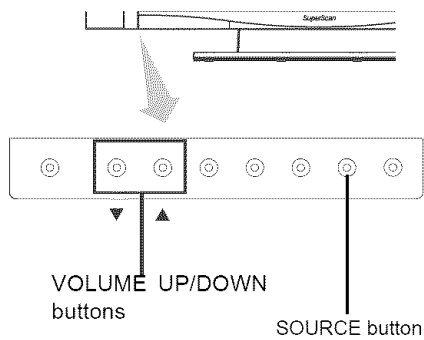
When the indicator lamp lights orange or the message "No Sync. Signal" or "Power Save" appears on the screen, there is something abnormal about the status of the reception.

See Trouble Shooting.

CAUTION

- Avoid repeatedly turning the TV on and off at short time intervals. Failures might result from doing so.
- Turn off the main power switch before leaving the TV 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 main power switch when a power failure occurs.

OPERATING INSTRUCTIONS (continued)



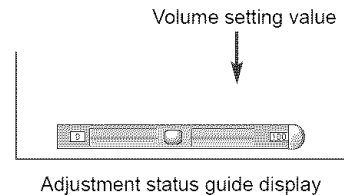
Selecting AV Inputs

- Input can be switched by pressing the AV1, AV2, AV3, AV4, RGB1, or RGB2 buttons
- Input can be switched in the sequence TV → AV1-Video → AV1-SVideo → AV2-Video → AV2-SVideo → AV3 480i → AV4 480p/480i → RGB1 VGA → RGB2 DVI-D by pressing the SOURCE button and then select the Input with the select keys ▲ ▼ and then press the ENTER button. To select a TV station, press the TV button.



Volume Adjustment

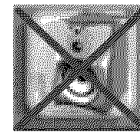
The volume can be adjusted by pressing the ▲ and ▼ buttons of the remote control (or the ▲ + and ▼ - volume buttons of the TV).



- When the volume buttons are pressed, the volume adjustment status guide will be displayed.
 - The volume will increase when the VOL+ (or ▲) button is pressed while the guide is being displayed.
 - The volume will decrease when the VOL- (or ▼) button is pressed while the guide is being displayed.

Audio Mute

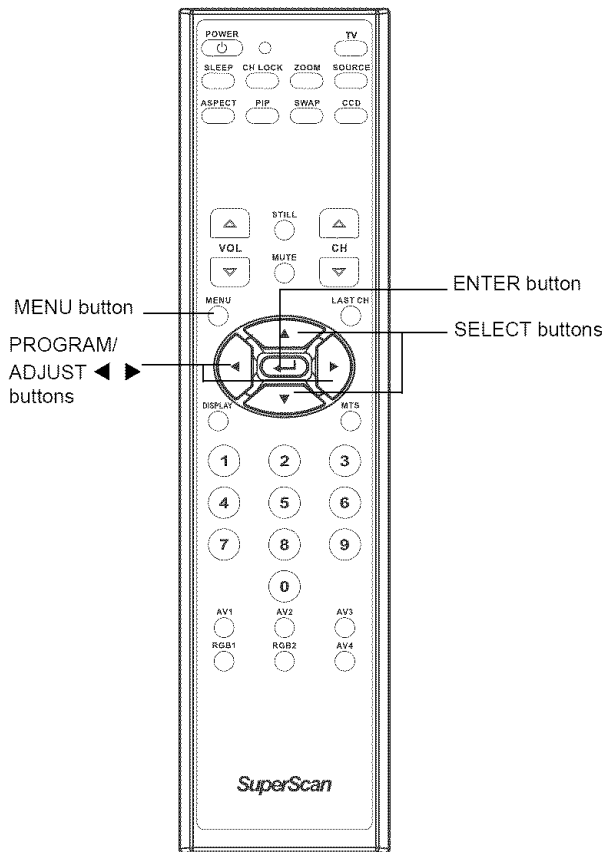
The audio volume can be temporarily muted by pressing the MUTE button of the remote control.



- When the MUTE button is pressed, the above icon will appear.
 - The volume setting can be lowered by pressing the VOL- button while the audio is muted.
 - Muting can be cancelled by pressing the VOL+ button or the MUTE button while the audio is muted.

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)

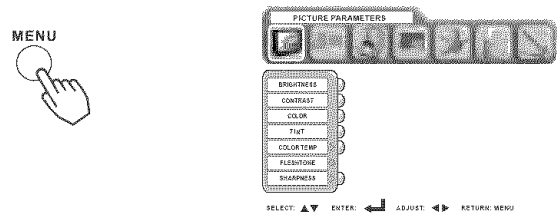


Using the Menu Screen (On-screen display system)

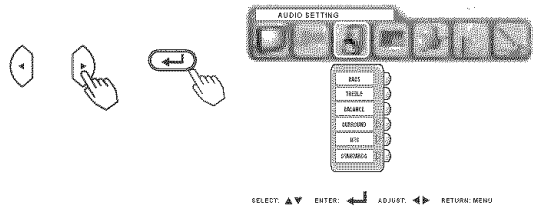
When the MENU button is pressed, the adjustment menu screen will appear. Adjustment and setting are possible by using the SELECT buttons, PROGRAM ADJUST buttons and the ENTER button.

Example: Selecting the picture screen

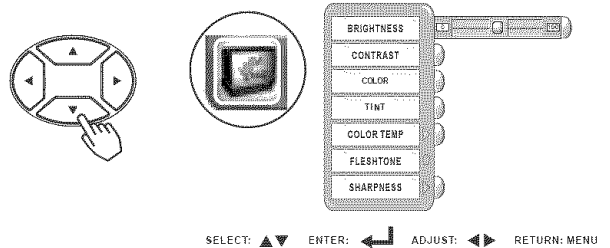
1. Press the MENU button to display the Main Menu screen.



2. Select the Picture Parameters screen with the ◀ and ▶ PROGRAM ADJUST buttons and press the ↵ ENTER button.

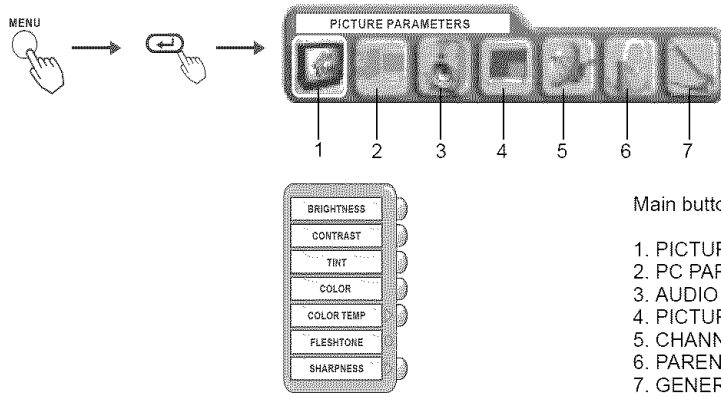


3. Use the ▲ and ▼ SELECT buttons to select the item to be adjusted and then use the ◀ and ▶ ADJUST buttons to adjust (example: Brightness.)



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

OPERATING INSTRUCTIONS (continued)

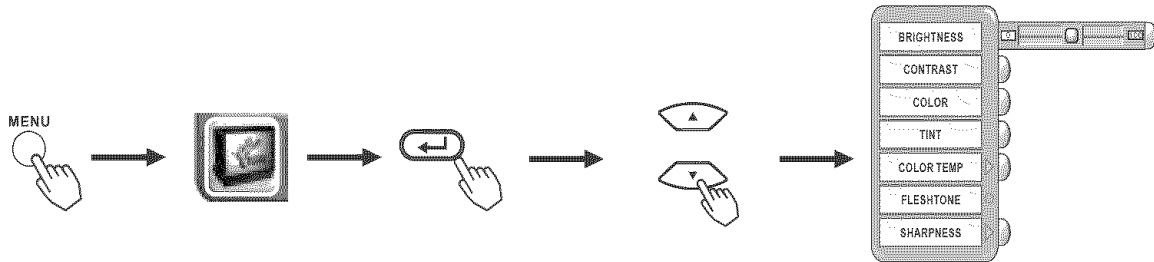


Main buttons:

1. PICTURE PARAMETERS MENU
2. PC PARAMETERS MENU
3. AUDIO SETTING MENU
4. PICTURE-in-PICTURE MENU
5. CHANNEL SETTING MENU
6. PARENTAL CONTROLS MENU
7. GENERAL SETTING MENU

SELECT: ▲▼ ENTER: ◀▶ ADJUST: ◀▶ RETURN: MENU

Picture Parameters

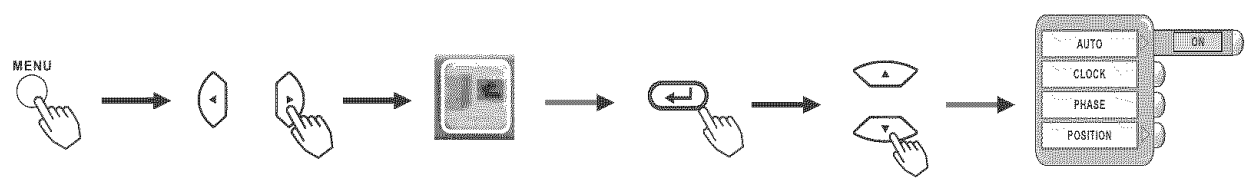


1. Press the "MENU" button to display the Main Menu screen.
2. Press the ENTER button to confirm then use the ▲ and ▼ SELECT buttons to select the item to be adjusted and then use the ◀ and ▶ ADJUST buttons to adjust the selected items.

Selected characters	◀	▶	Setup hint
CONTRAST	Narrows the gap between light and dark.	Broadens the gap between light and dark.	Adjust for maximum visibility to suit the ambient brightness.
BRIGHTNESS	Black is subdued for increased overall darkness.	Black is set to off for increased overall brightness.	Adjust as desired.
COLOR	Decrease color level.	Increase color level.	Adjust as desired.
TINT	Enhances red and weakens green.	Enhances green and weakens red.	This cannot be adjusted when receiving the PAL/SECAM signal, and will be greyed out. Adjust as desired for photo realistic skin color.
COLOR TEMPERATURE	Warm ↔ Normal ↔ Cool ↔ User R ↔ User G ↔ User B 		Normally set to Cool.
Fleshtone	ON	OFF	Set to ON for richer skin color.
Sharpness	SOFT	SHARP	Normally set to the center position; shift to the minus (-) side for a softer picture and plus (+) for a sharper picture.

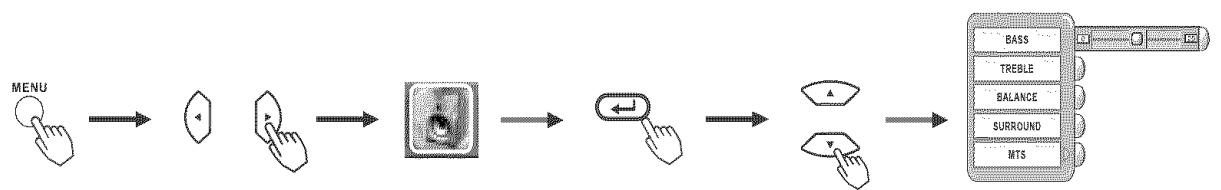
OPERATING INSTRUCTIONS (continued)

PC Parameters



Selected characters	◀	▶	Setup hint
AUTO	Press the ENTER button to make the word "ON" light on.		Normally set to off mode. Adjust automatically for clock, phase, and position.
CLOCK	Reduces the dot clock	Increases the dot clock	Adjust for maximum character clarity.
PHASE	Slows the dot clock Phase	Advances the dot clock Phase	Adjust for clear character visibility.
POSITION	Press the PROGRAM button to adjust the display position		Adjust the horizontal and vertical display positions.

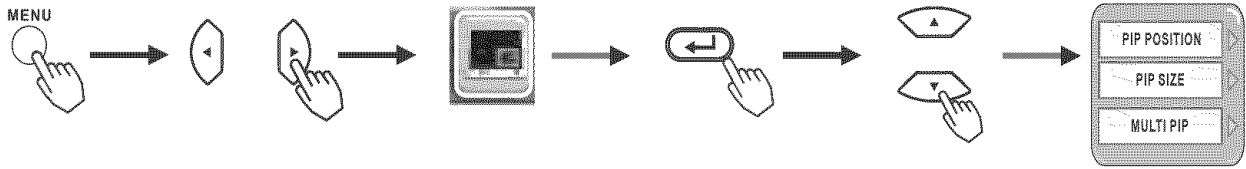
Audio Setting



Selected characters	◀	▶	Setup hint
BASS	Decreases bass.	Increases bass.	Adjust as desired.
TREBLE	Decreases treble.	Increases treble.	Adjust as desired.
BALANCE	Decreases right volume level.	Increases left volume level.	Adjust as desired.
SURROUND			Creates a surround sound effect.
MTS			Selects TV tuner sound.

OPERATING INSTRUCTIONS (continued)

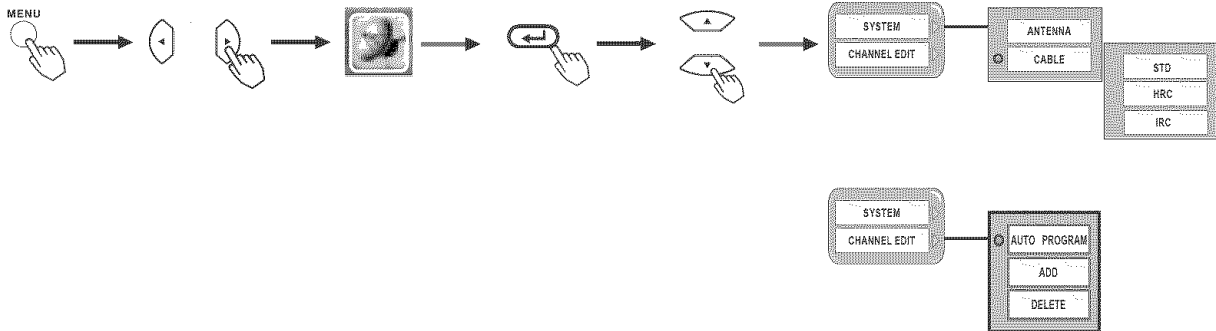
Picture-in-Picture



PIP function description

Selected characters	◀	▶	Setup hint
PIP POSITION	Use the ▲ ▼ buttons to adjust pictures to the up or down positions. Use the ◀ ▶ buttons to adjust pictures to the right or left positions.		Change PIP display position.
PIP SIZE			Change PIP display Size.
MULTI PIP	OFF--POP(1+12)--POP(1+8)--POP(1+3)		use the ▲ ▼/ ◀ ▶ buttons to select the PIP setting.

Channel Setting



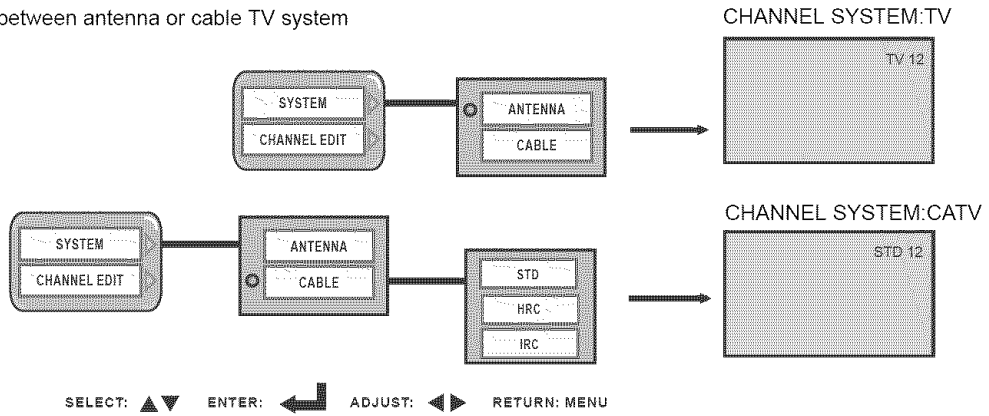
Selected characters	◀	▶	Setup hint
SYSTEM			Antenna or cable TV system selection.
CHANNEL EDIT			Begin AUTO PROGRAM, add and delete channel.

OPERATING INSTRUCTIONS (continued)

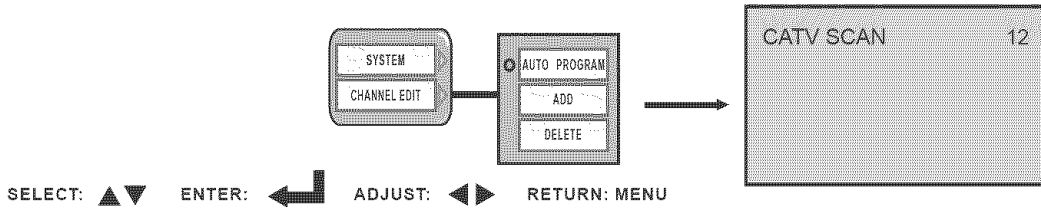
Pre-setting TV Channels

Note: The TV must be in TV mode for access to this Menu.

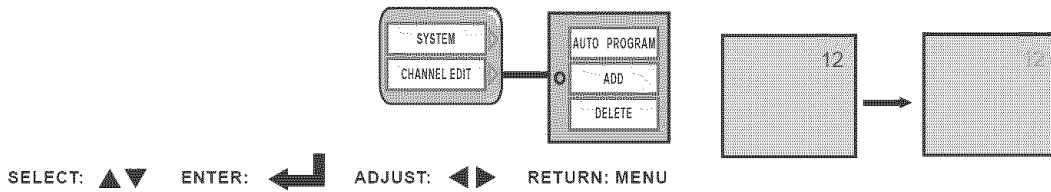
[1] SYSTEM -- Select between antenna or cable TV system



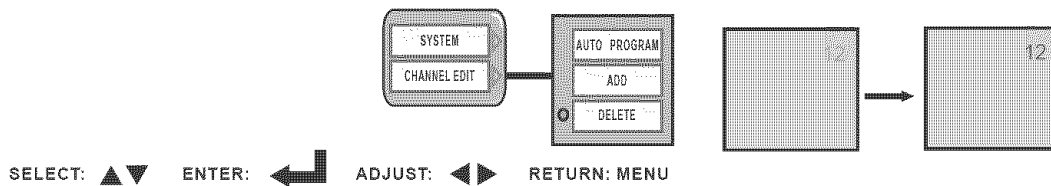
[2] AUTO PROGRAM -- Auto search channels



[3] CHANNEL ADD -- Change the OSD channel number from Red to Green



[4] CHANNEL DELETE -- Change the OSD channel number from Green to Red



OPERATING INSTRUCTIONS (continued)

ASPECT

The ASPECT button will select how the video image appears on the TV's screen.

There are 4 selections.

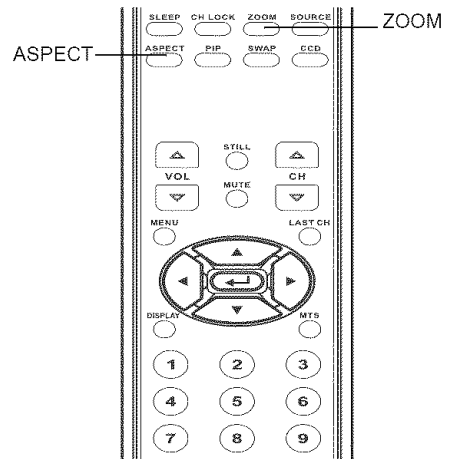
16:9	Displays a wide screen image
4:3	Displays a 4:3 square picture with letterbox bands
PANORAMIC	Stretches the picture to increase the size of images in the center of the picture.
CINEMA	Magnifies the image to fill the screen with a picture.



Note: For PC set, you can select 4:3 and 16:9 aspect mode.

ZOOM

Each time the ZOOM button of the remote control is pressed, the image on the screen will be enlarged. There are 10 selections, Zoom 0(=Normal size) to Zoom 9.

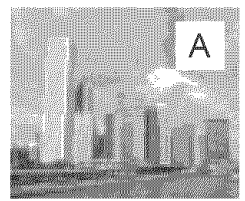


OPERATING INSTRUCTIONS (continued)

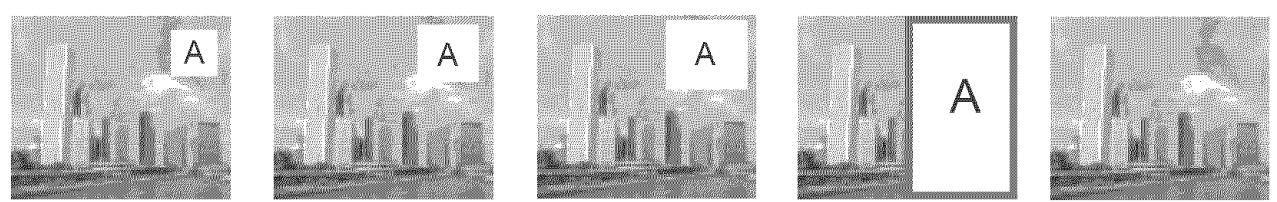
PICTURE IN PICTURE (PIP)

Selecting PIP size

When the PIP button on the remote control is pressed, a black box will appear on the screen.



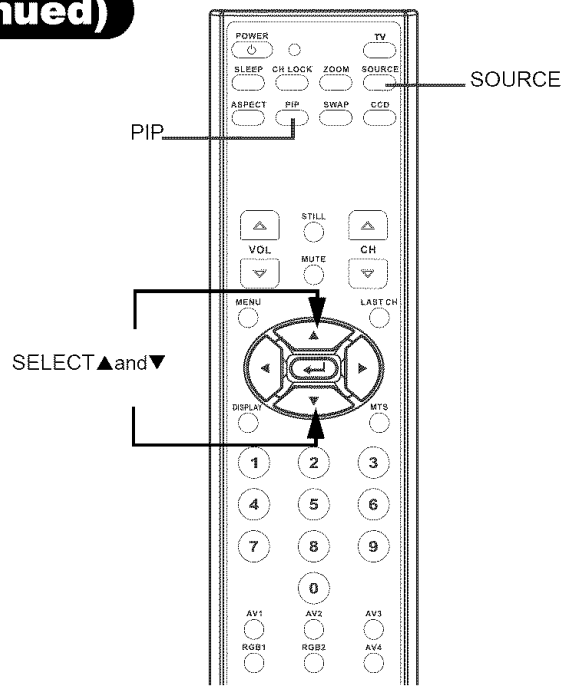
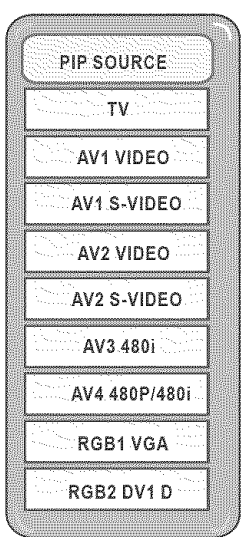
Each time the PIP button is pressed, the size of box changes as follows.



SMALL MEDIUM LARGE SPLIT PIP-OFF

Selecting PIP Source

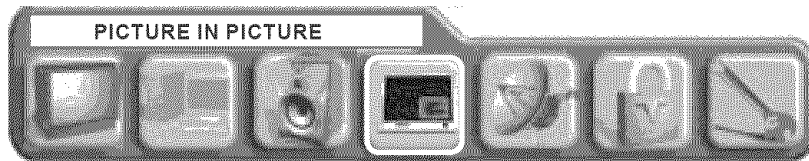
While a black box appears on the screen, press SOURCE button and PIP SOURCE menu appears. Picture mode will change in the following sequence, each time the remote button is pressed. Select the SOURCE by using the ▼ ▲ select keys on the remote control. Then, press the ENTER button.



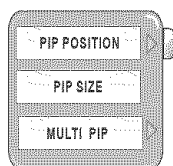
OPERATING INSTRUCTIONS (continued)

PICTURE IN PICTURE (Continued)

Setting Up PIP through On Screen Main Menu



1. Press the "MENU" button to display the Main Menu screen.
2. Select " PICTURE IN PICTURE" Menu with ◀▶ ADJUST button and press ◀▶ ENTER button, then following menu will appear.



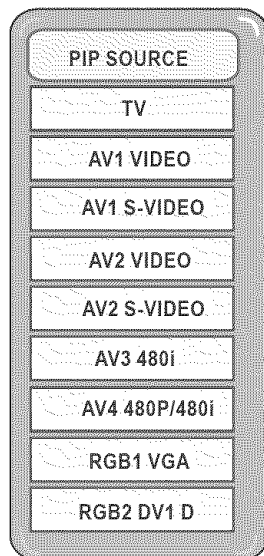
Select PIP size

1. Press ◀▶ ENTER button.
2. Select the PIP size with ▲ ▼ SELECT button.
3. Press ◀▶ ENTER button.
4. Press "MENU" button 2 times to return to PICTURE IN PICTURE Main Menu.
5. Press "MENU" to exit.

Select PIP Source

While a black box appears on the screen, press SOURCE button and PIP source MENU appears.

Select the SOURCE by using the▲ ▼ SELECT buttons on the remote control. Then press the ◀▶ ENTER button.



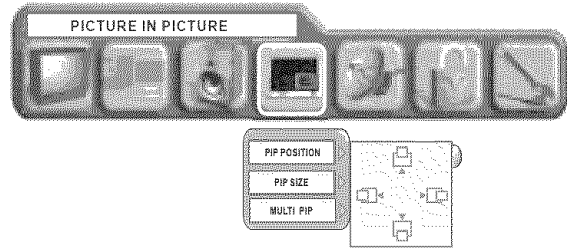
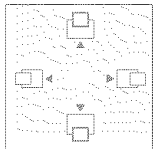
OPERATING INSTRUCTIONS (continued)

PICTURE IN PICTURE (Continued)

Change PIP Position

After selecting PIP Size and PIP Source,

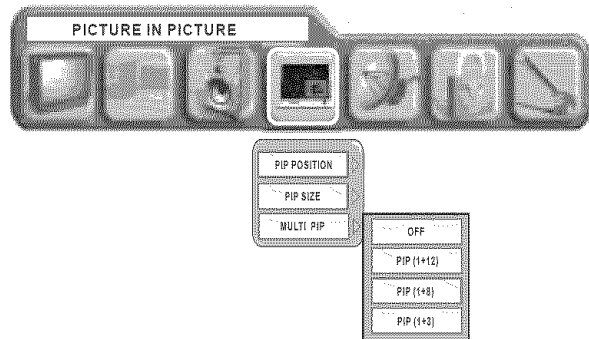
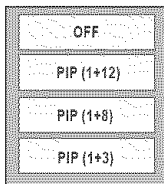
1. Press the "MENU" button to display on the On Screen Main Menu.
2. Select "PICTURE IN PICTURE" Menu with ◀▶ ADJUST button.
3. Press ◀ ENTER button. The following Menu and a diagram will appear.
4. Press the ◀ ENTER Key and a white ball appears in the center of the diagram.



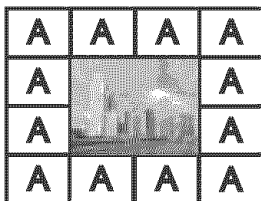
5. Move the PIP display with ▲ ▼ SELECT and ◀▶ ADJUST buttons.
6. Press "MENU" button 2 times to return to "PICTURE IN PICTURE" Menu.
7. Press "MENU" button to exit.

Multi PIP

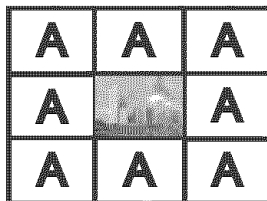
1. Press the "MENU" button to display on the On Screen Main Menu.
2. Select "PICTURE IN PICTURE" Menu with ◀▶ ADJUST button.
3. Press ◀ ENTER button. The following Menu and a diagram will appear.
4. Select Multi PIP with ▲ ▼ SELECT button.



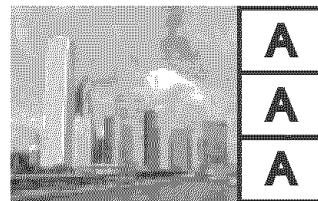
5. Select the PIP display mode with ▲ ▼ SELECT buttons.
6. Press "MENU" key 2 times to return to "PICTURE IN PICTURE" Menu.
7. Press "MENU" to exit.



PIP(1+12)



PIP(1+8)



PIP(1+3)

OPERATING INSTRUCTIONS (continued)

Other Functions

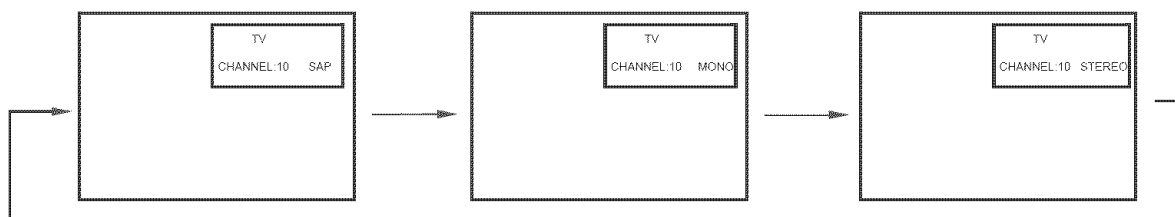
- The MTS button is used only when using the TV channel selector.

Stereo and SAP (2nd Audio program) sound program

When a bilingual program is received, the sound mode display appears as shown on the right.

Press the MTS button to select the sound to be heard.

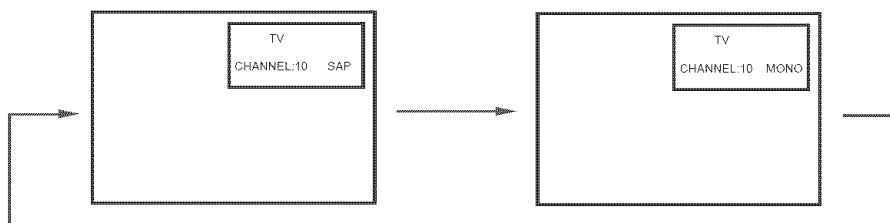
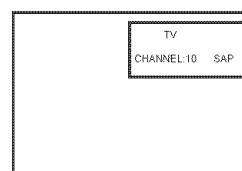
Each time the button is pressed, Stereo, SAP or Mono appears on the screen.



Mono and SAP (2nd Audio program) sound program

When a program is received, the sound mode display will appear as shown on the right, and you can press the MTS button to select between SAP and mono sound.

Each time the button is pressed, SAP or Mono will appear on the screen.



Monaural sound

When a monaural program is received, the sound mode display will be shown.

You can press the MTS button to manually select monaural Sound.

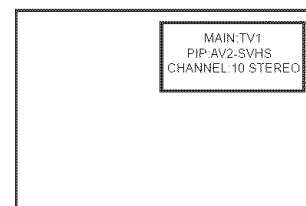
NOTES

- If the sound signal is not strong enough, press the MTS button until Mono appears on the screen, to receive a clear mono sound.
- If the sound has a hiss noise or keeps switching between stereo and mono mode or SAP and mono mode due to signal strength, press the MTS button until Mono appears on the screen to receive a clear mono sound.

Stereo sound

When a stereo program is received, the sound mode display will be shown.

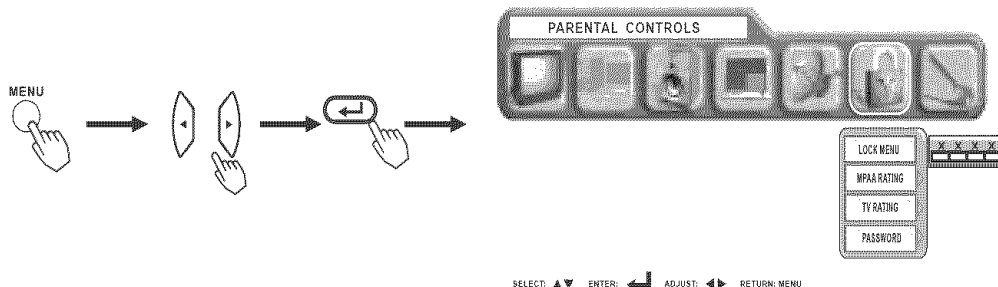
You can press the MTS button to select the sound mode for stereo or mono reception.



OPERATING INSTRUCTIONS (continued)

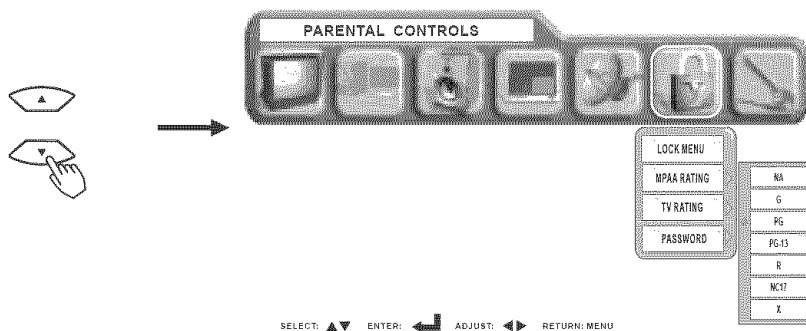
Parental Controls

Press "MENU" button and select PARENTAL CONTROLS menu with the ◀ ▶ PROGRAM ADJUST buttons, then press the ⏪ ENTER button. Enter the V chip Password: the factory preset code is 1111.



MPAA RATING

A second Menu appears. Select MPAA by pressing the ⏪ ENTER button. Select rating by pressing the ▼ ▲ SELECT buttons. Press the ⏪ ENTER button to enter the rating. Press "MENU" button twice to return to parental controls. Press "Menu" button to exit screen.



TV RATING

1. Press "MENU" button and select PARENTAL CONTROLS menu with the ◀ ▶ PROGRAM ADJUST buttons, then press the ⏪ ENTER button. Enter the V chip Password: the factory preset code is 1111.

2. A second Menu appears. Select TV PG Rating by pressing the ▼ SELECT button. Press the ⏪ ENTER button, a third Menu appears.

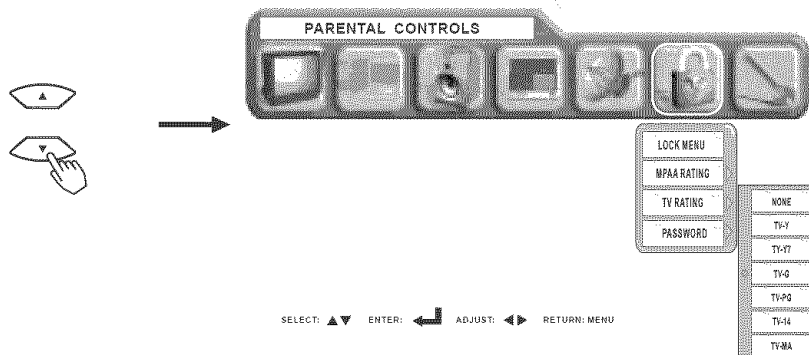
Press the ▼ ▲ SELECT buttons to select rating, press the ⏪ ENTER button to enter the rating.

3. Select the ratings with ▼ ▲PROGRAM ADJUST buttons. Press the ⏪ ENTER button to set the rating, a dot will appear next to the rating.

4. To exit the sub menu press "MENU" button.

5. To exit the TV PG Rating menu, press the "MENU" button.



6. To exit Parental Controls Menu, press the "MENU" button a second time.

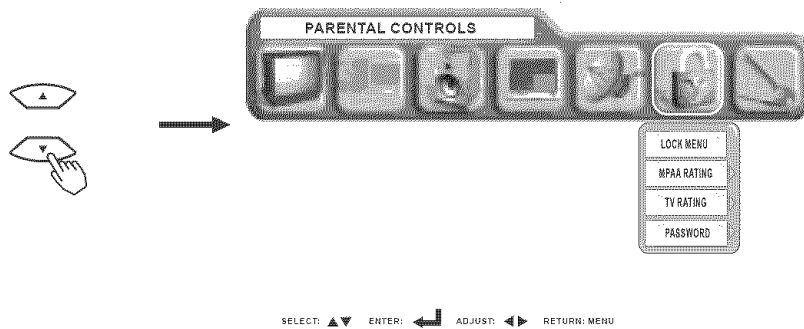


OPERATING INSTRUCTIONS (continued)

Parental Controls (Continued)

PASSWORD

1. Press "MENU" button and select PARENTAL CONTROLS menu with the ◀ ▶ PROGRAM ADJUST buttons, then press the  ENTER button. Enter the V chip Password: the factory preset code is 1111.
2. A second Menu appears. Select password by pressing the ▼ SELECT button, press the  ENTER button, Enter the new password using the numbers on the TV's remote control.
3. Enter the password a second time to continue.
4. A password confirmed window will appear. Press Menu button to exit Parental Controls.



OPERATING INSTRUCTIONS (continued)

Parental Controls (Continued)

This function will block out the selected channel or video input. The code to enter the LOCKS feature is a four-digit secret code number. Use the number buttons to select the secret code.

Change Access Code	Enter Access Code	The factory preset code is (1111).
	Enter NEW Access Code	This is used to enter a new four digit number you prefer.
MPAA Ratings	Not Rated: G; PG; PG-13; R; NC-17; X	When this is selected, you can block various types of movies and videotapes based on motion picture ratings. Picture-in Picture will also be blocked automatically.
TV Ratings	TV-Y; TV-Y7 (FV); TV-G; TV-PG (D; L; S; V) TV-14 (D; L; S; V); TV-MA (L; S; V)	When this is selected, various types of television programming based on parental guide ratings will be blocked. Picture-in-Picture will also be blocked automatically.

If you forget your secret code, use the factory code (1111) to erase your secret code. This will reset the secret code number back to the factory preset (1111).

The secret code prevents viewing of any movie that you feel may be inappropriate due to its content. Use the ▲ or ▼ SELECT buttons to select the MPAA RATING category that you want to block. Press the OK button to block the MPAA RATING that you have selected. Once the rating is selected, for example PG-13, all MPAA rated PG-13 and higher (R, NC-17 and X) movies will be blocked. Press RETURN to return to the previous menu.

Motion Picture Ratings Chart	
Not Rated (NR)	Contains no rating. Not Rated (NR) and Not Applicable (NA) programs. Movie has not been rated or ratings do not apply.
G	General audiences. All ages are permitted to watch.
PG	Parental guidance suggested. Some material may not be suitable for children.
PG-13	Parents strongly cautioned. Some material may be inappropriate for children under 13.
R	Restricted. Under 17 requires an accompanying parent or adult guardian.
NC-17	No one 17 and under are permitted to watch.
X	Adults only.

OPERATING INSTRUCTIONS (continued)

TV Ratings

This is to prevent viewing of any TV program that you feel may be inappropriate due to its content.

Use the ▲ or ▼ SELECT buttons to highlight the category that you want to block.

Press the OK button to block the TV RATING that you have selected.

Press the RETURN button to return to the previous menu.

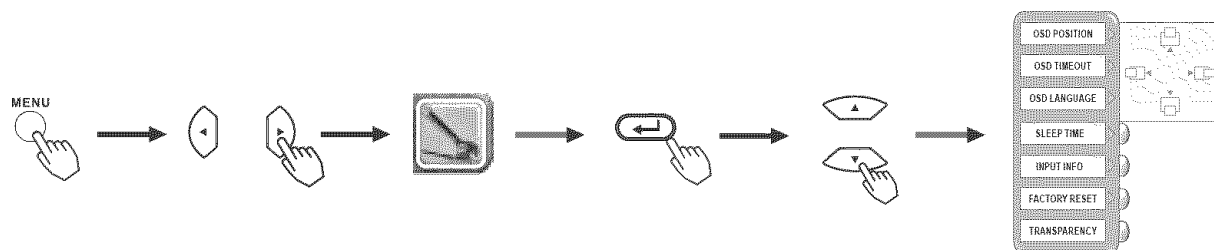
TV Parental Guide Ratings Chart	
TV-Y	All children. The themes and elements in this program are specifically designed for a very young audience, including children from ages 2-6.
TV-Y7	Directed to older children. Themes and elements in this program may include mild physical or comic violence, or may frighten children under the age of 7.
TV-G	General audience. It contains little or no violence, no strong language, and little or no sexual dialogue or situations.
TV-PG	Parental guidance suggested. The program may contain infrequent coarse language, limited violence, some suggestive sexual dialogue and situations.
TV-14	Parents strongly cautioned. This program may contain sophisticated themes, intense sexual situation, more intense violence and intensely suggestive dialogues.
TV-MA	Mature audience only. This program may contain mature themes, indecent language, graphic violence and explicit sexual content.
FV	Fantasy Violence
V	Moderate Violence
S	Sexual Situations
L	Coarse Language
D	Suggestive Dialogue

NOTE

If you block TV-14D, you will still permit TV MA programs; if you block TV-14DV, you will automatically block TV-MAV programs, but you will still permit TV-MALS programs. This means that the TV will block violence in TV-14 and higher (TV-MA), but not language and sex.

OPERATING INSTRUCTIONS (continued)

General Setting



Selected characters	▲	▼	Setup hint
OSD POSITION	Use the ▲ ▼ and ◀ ▶ buttons to adjust the OSD position		Adjusts the OSD position
OSD TIMEOUT	3SEC--10SEC--20SEC.		Adjusts OSD display and on-screen time
OSD LANGUAGE	English--French--Spanish		Sets the language for the OSD.
SLEEP TIME	Use the ▲ ▼ buttons to set the TV off time mode.		Set the TV off time for each mode (OFF/30 MIN/60MIN/120 MIN)
INPUT INFO	To display information about the input signal.		Displays information about the input signal
FACTORY RESET	ON	OFF	Resets all settings to FACTORY defaults.
TRANSPARENCY	Use the ▲ ▼ buttons to adjust OSD menu transparency		Adjusts OSD MENU transparency

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

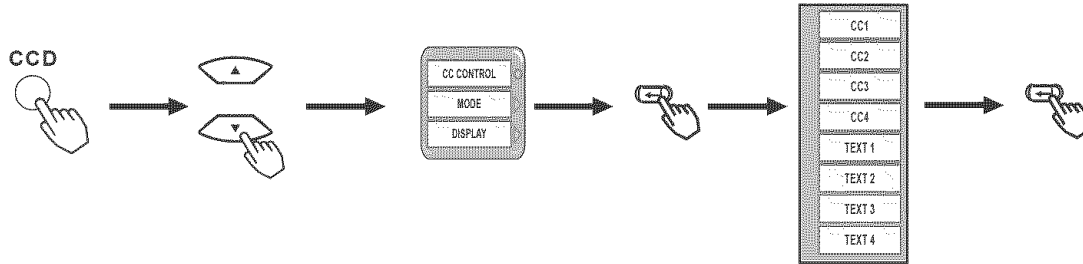
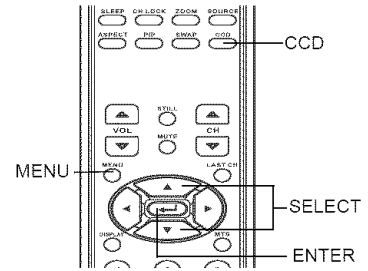
OPERATING INSTRUCTIONS (continued)

Captions Menu

Setup up Closed Caption

Press the CCD button on the remote control and select MODE menu by pressing the ▼ SELECT button and press the ⏏ ENTER button.

Select the closed caption by pressing the ▲▼ SELECT buttons. Press the ⏏ ENTER button. To exit Captions Menu, press the MENU button twice.

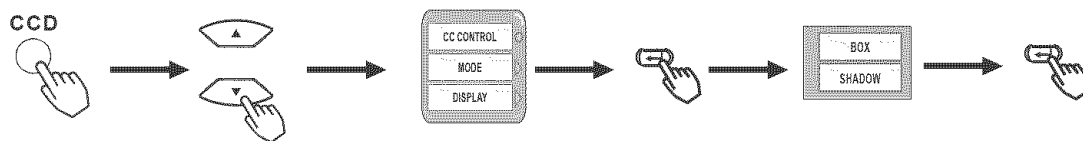


To Select Box or Shadow display

Press the CCD button on the remote control and DISPLAY menu by pressing the ▼ SELECT button and press the ⏏ ENTER button.

Select BOX or SHADOW. Press the ⏏ ENTER button.

To exit Captions Menu, press the MENU button twice.



Closed Captions are the dialogues, narration and/or sound effects of a television program or home video that are displayed on the Plasma Television screen.

Caption Display	Press the SOURCE button twice	[1] Press the SOURCE button twice to turn the [C.C] display on or off.
Mode	--CC1--CC2--CC3--CC4--TEXT1-- --TEXT4--TEXT3--TEXT2----	[Captions] is for the program you are viewing. [Text] is for additional information such as news reports or a TV program guide. This information covers the entire screen and viewing the TV program is not possible. Text may not be available with every [C.C] program.
Channel (Captions)	CC1- -CC2- -CC3- -CC4	[1] is used for the primary language (usually English) [2] is sometimes used for a second language (may vary by region).
Channel (Text)	TEX1--TEXT2 --TEXT3 --TEXT4	[3] is sometimes used for a third language (may vary by region). [4] is sometimes used for a fourth language (may vary by region).
BOX		[1] is used for the primary language, and has a black back ground.
SHADOW		[1] is used for the primary language, and has a line back ground.

NOTE

- CAPTION DISPLAY will not work when viewing a 480P, 720P, or 1080i input via the COMPONENT: Y-PBPR or DVI-HDTV inputs.
- CAPTION DISPLAY will not work for other Extended Data Services.
- When PIP (Multi Picture) mode is on, CAPTION DISPLAY is activated on the selected display.

TROUBLESHOOTING










Symptoms

If the point to check does not correct the symptoms, please contact your local Sears Service center for assistance.



WARNING

Self servicing can be hazardous.

Symptom	Point to check	See Page
There is no picture and the power-indicating lamp is off. 	Check to see that the power cable is properly connected. Press the main switch.	20 ①
The message "No Sync. Signal" or "Power Save" is displayed.  There is no picture and the power indicating lamp lights orange. 	No sync signal is detected. Check that the signal cable is properly connected. Make sure that the computer, imaging equipment, etc., is turned on. Make sure the computer is not in power-save mode. Ensure that the input selection matches the connection terminal.	16
The message "Invalid Scan Freq." is displayed. 	An input signal is received abnormally. Ensure that the input signal matches the monitor specifications. Check to see that the signal cable is properly connected.	16
The power indicating lamp is lit normally but there is no picture. 	Check the contrast and brightness settings (adjust them for higher contrast and brightness). Check to see that the signal cable is properly connected.	23 16
The display image appears slanted. Text displayed across the screen appears vertically streaked, with the characters in vertical columns blurred.  	Adjust the clock frequency and the phase. (Adjust the clock frequency first, the dot clock phase next.) (RGB input)	22 16
Text displayed across the screen appears blurred. A fine pattern flickers when displayed on the screen.  	Adjust the clock phase till the desired clarity is obtained. (RGB input)	24 16
The remote control does not work.	Ensure that the batteries in the remote control are inserted with the correct polarity. Check to see that the batteries in the remote control are functional.	18

TROUBLESHOOTING (continued)


Symptoms (continued)

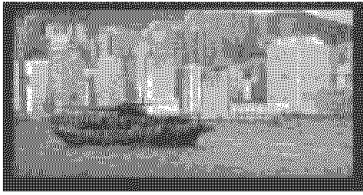
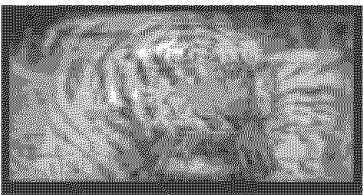
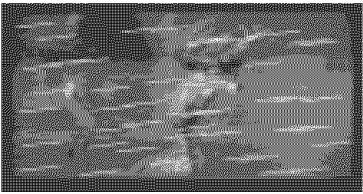
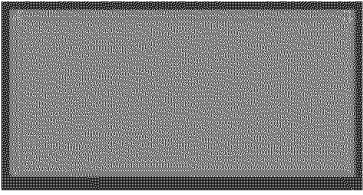


Symptom	Point to check	See Page
The temperature of the display panel surface is warm.	The plasma display panel works by lighting phosphors. In some cases, this may cause the temperature of the panel surface to increase. Please note that this is not a malfunction.	-
Points that do not light, points with brightness different from that of the periphery, points with color different from that of the periphery, etc.	High-precision technology is used to manufacture the plasma display panel. However over the life of the plasma panel, a few pixel elements may fail. This is not to be considered a defect in the panel.	-
Vertical stripes appear, depending on the screen contents.	The plasma display panel works by lighting the phosphors on it by the discharge of internal radiation. Depending on the screen contents, in rare cases, this may cause vertical stripes to appear because of its failure to light the relevant pixels. Please note that this is not a malfunction.	-
Coarse horizontal stripes appear in FULL display.	Adjusting the Clock Phase will reduce the horizontal stripes. (RGB input)	24
The screen flickers in the form of horizontal lines oscillating up and down. (PC INPUT MODE only)	If the frequency from the computer is below 85Hz, try a higher frequency (to a maximum limit of 85Hz). There may be a slight attenuation of the current image.	-
The top surface of the monitor heats up.	When used for long periods of time, the top surface of the monitor may heat up. This is not a malfunction.	-
Text characters are displayed with varying thickness.	The thickness of characters and lines may vary when images with a vertical resolution greater than 480 lines are displayed; however this is not a malfunction.	-
The display does not seem bright enough.	The ambient temperature of the monitor may be low. Ambient temperatures less than about 15° degrees, may cause lower luminance. The panel protection circuit automatically lowers the luminance, and is not a malfunction. The luminance will be restored when power is turned on for a while.	-
The display does not seem bright enough. (RGB input)	The setup-frequency setting in RGB input may be set to PC mode. When set to PC mode, the luminance is lowered by about 10% than when set as Movie mode. This is not a malfunction. If you do not mind flicker on the display, please switch to Movie mode.	23

TROUBLESHOOTING

Symptoms (Continued)

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

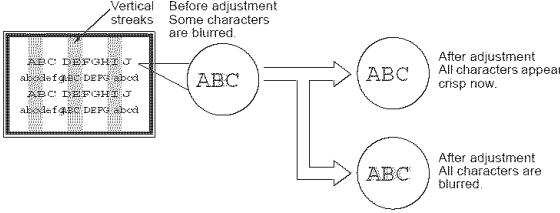
 WARNING Do not attempt to service this unit.
--

Symptom	Possible reason	Remedy
 snowy picture - poor sound	(1) Connection of antenna/cable lead in wire to the TV is poor (2) Corroded or poor antenna/cable connections (3) Antenna has moved position (4) Adverse weather conditions (5) Transmitter problems	(1) Make new connection and/or change antenna plug (2) Make new connections or use new cable. (3) Re-align the antenna (4) None (5) Check with the local Operator
 multiple images - sound O.K	(1) Antenna has moved position (2) Adverse weather conditions (3) Transmitter problems (4) AV Input is not set correctly (5) Corroded or poor antenna / cable connections	(1) Re-align the antenna (2) None (3) Check with the local Operator (4) Check the external equipment connected (5) Make new connections or use new cable.
 intermittent interference	(1) Interference from electrical or mechanical motors, fluorescent lights, portable radios etc. (2) Corroded or poor antenna/cable connections.	(1) Check devices for shielding and renew if necessary or move further from TV (2) Make new connections or use new cable.
 no picture or sound	(1) TV may be in AV mode (2) Picture/sound setting is set to minimum (3) TV is in standby or power save mode (4) Corroded or poor antenna / cable connections.	(1) Press the PROGRAM button or the  to  buttons on your remote control to return to normal TV mode (2) Check picture / sound controls (go to MAIN MENU) (3) Press POWER ON / OFF button (4) Make new connections or use new cable. <div style="border: 1px solid black; padding: 5px; margin-top: 10px; text-align: center;"> TV CHANNEL:10 MONO </div>

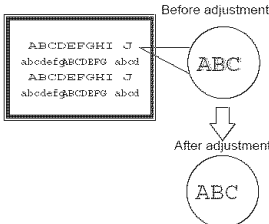
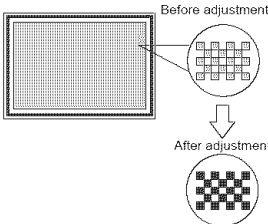
TROUBLESHOOTING (continued)

Abnormal Displays Corrections RGB 2 Only

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). The display image appears flowing (figure 2) (RGB input).
Example	Figure 1  <p>Vertical streaks</p> <p>Before adjustment Some characters are blurred.</p> <p>After adjustment All characters appear crisp now.</p> <p>After adjustment All characters are blurred.</p>
Adjustment procedure	<ol style="list-style-type: none"> 1) Press the MENU button. The Main Menu will be displayed. 2) Press the ▼ SELECT button and Select Setup. 3) Press the ENTER button. The Setup Menu will be displayed. 4) Press the ▼ SELECT button and select Auto Adjust. <p>When adjustment is not possible with Auto Adjust:</p> <ol style="list-style-type: none"> 5) Press the MENU button. The Main Menu will be displayed. 6) Press the ▼ SELECT button and select Setup. 7) Press the ENTER button. The Setup Menu will be displayed. 8) Press the ▼ SELECT button and select Horizontal Clock. (Displays fine patterns as characters or a vertical striped pattern over the entire screen during Horizontal Clock adjustment.) 9) Press the ◀ or ▶ ADJUST buttons and search for clear characters over the entire screen. 10) Perform adjustment for symptom 2 below, when the characters are blurred on the entire screen.

• 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	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Figure 2</p>  <p>Before adjustment</p> <p>After adjustment</p> </div> <div style="text-align: center;"> <p>Figure 3</p>  <p>Before adjustment</p> <p>After adjustment</p> </div> </div>
Adjustment procedure	<ol style="list-style-type: none"> 1) Press the MENU button. The Main Menu will be displayed. 2) Press the ▼ SELECT button and Select Setup. 3) Press the ENTER button. The Setup Menu will be displayed. 4) Press the ▼ SELECT button and select Auto Adjust. <p>When adjustment is not possible with Auto Adjust</p> <ol style="list-style-type: none"> 5) Press the MENU button. The Main Menu will be displayed. 6) Press the ▼ SELECT button and select Setup. 7) Press the ENTER button. The Setup Menu will be displayed. 8) Press the ▼ SELECT button and select Clock Phase. (Displays fine patterns as characters or a vertical striped pattern over the entire screen during Clock Phase adjustment.) <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <ol style="list-style-type: none"> 9) Press ◀ or ▶ ADJUST buttons to make the text appear clean across the screen. </div> <div style="width: 48%;"> <ol style="list-style-type: none"> 9) Press ◀ or ▶ ADJUST buttons to make the text appear without flickering. </div> </div>

PRODUCT SPECIFICATIONS

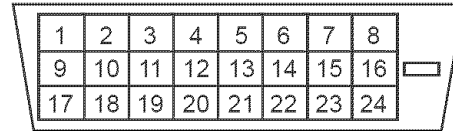
Panel	Display dimensions	Approx. 42 inches (920 (H) x 518 (V) mm, diagonal 1059mm)
	Resolution	852 (H) x 480 (V) pixels
Net dimensions (excluding Speakers/Stand)		1030 (W) x 636 (H) x 91 (D) mm
Net weight (excluding Speakers/Stand)		38.64 kg
Ambient conditions	Temperature	Operating: 5°C to 35°C, Storage: -15°C to 60°C
	Relative humidity	Operating: 20% to 80%, Storage: 20% to 90% (non-condensing)
Power supply		AC100 - 240V, 50/60Hz
Power consumption/at standby		310W / <3W
Audio output		10W + 10W (6Ω)
(RGB input)		
Input signals	Input terminals	RGB1-VGA audio input terminal (3.5mm Stereo Mini Jack) RGB1-VGA analog RGB input terminal (D-sub 15-pin) RGB2 DVI-D input terminal (DVI-D) RGB2 DVI-D audio input terminal (3.5mm Stereo Mini Jack)
	Video signals	0.7 V/1.0 Vp-p, analog RGB (Recommended Signal 480i, 576i, 480p, 576p, 1080i/50, 1080i/60, 720p/60
	Sync signals	H/V separate, TTL level [2KΩ] H/V composite, TTL level [2KΩ] Sync on green, 0.3 Vp-p [75Ω]
Recommended signal		47 modes
(Video input)		
Input signals	Input terminals	AV1 video: video input terminal (RCA) AV1 video: SVideo input terminal AV1: L/R audio input terminal (RCA) AV2 video: video input terminal (RCA) AV2 video: Svideo input terminal AV2: L/R audio input terminal (RCA) AV3 video: video input terminal (RCA) AV3: L/R audio input terminal (RCA) AV4 video: video input terminal (RCA) AV4: L/R audio input terminal (RCA)
	Video signals	AV1: NTSC3.58, NTSC4.43 AV1: 480i AV2: NTSC3.58, NTSC4.43 AV2: 480i AV3: NTSC3.58, NTSC4.43 AV4: NTSC3.58, NTSC4.43
Video output Signal		OUTPUT (MONITOR): composite video monitor-output terminal (RCA) OUTPUT (MONITOR): L/R audio monitor- output terminal (RCA)
Recommended signal		11 modes
(RF input)		
Input signals	Input terminals	ANT: 75Ω Unbalanced
	RF Video System	NTSC-M

- It takes at least 30 minutes to attain the maximum picture quality.

PRODUCT SPECIFICATIONS (continued)

Component Connection

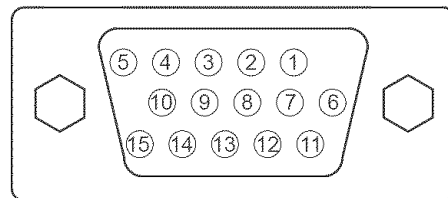
Pin	Input signal	Pin	Input signal
1	T.M.D.S. Data2-	14	+5V Power
2	T.M.D.S. Data2+	15	Ground (for+5V)
3	T.M.D.S. Data2/4 Shield	16	Hot Plug Detect
4	T.M.D.S. Data4-	17	T.M.D.S. Data0-
5	T.M.D.S. Data4+	18	T.M.D.S. Data0+
6	DDC Clock	19	T.M.D.S. Data0/5 Shield
7	DDC Data	20	T.M.D.S. Data5-
8	No Connect	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+		



RGB terminal (D-sub 15-pin connector)

Pin	Input signal
1	R (PR/CR)
2	G or sync on green (Y)
3	B (PB/CB)
4	No connection
5	No connection
6	R.GND (PR/CR, GND)
7	G.GND (Y, GND)
8	B.GND (PB/CB, 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



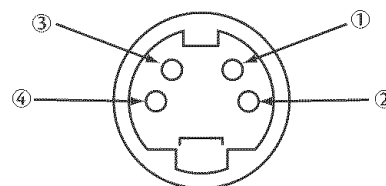
- When different kinds of input signals are simultaneously input to the monitor via a graphics board or the like, the monitor will automatically select the signals in the following priority order:

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, or H/V composite sync.

S-input connector pin specifications

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



PRODUCT SPECIFICATIONS (continued)

Recommended Signal List

With Digital RGB signal input (RGB input)

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (kHz)	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	○		
2		640 x 480	59.94	31.47	25.18	○	○	
3	W-VGA	864 x 480	59.94	31.47	34.24	○		
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	480p	720 x 480	59.94	31.47	27.00		○	EIA-861
16	720p/60	1280 x 720	60.00	45.00	74.25		○	EIA-861
17	1080i/60	1920 x 1080	60.00	33.75	74.25		○	EIA-861

Make sure that the signal of the equipment to be connected is compatible with the specifications on this list. (O): acceptable

With Analog RGB signal input (RGB input)

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (kHz)	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	1600 X 1200	60.00	75.00	162.00		
19	Macintosh	640 X 480	66.67	35.00	30.24	
20		832 X 624	74.55	49.72	57.28	
21		1024 X 768	74.93	60.24	80.00	
22		1152 X 870	75.06	68.68	100.00	

23	W-XGA	1280 x 768	59.833	47.986	81.00	
24		1280 x 768	69.997	56.137	94.760	
25		1280 x 768	59.876	47.776	79.50	WXGA Mode: (1280 x 768)
26		1366 x 768	60.015	47.712	89.50	WXGA Mode: (1366 x 768)

- The type of video board or connecting cable used, may not allow for correct display 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 480 lines of vertical resolution at Full display (compressed display) can result in the interpolation of stripes.

With Composite Input and S-video Input (AV1~AV2 input)

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (kHz)	Remarks
	Signal name	Resolution	Vertical frequency (Hz)			
1	NTSC-M PAL-M	525	59.94	15.73	-	
2	PAL-M	625	50.00	15.63	-	

With Y, Cb, Cr input (AV3 component input)

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (kHz)	Remarks
	Signal name	Resolution	Vertical frequency (Hz)			
1	576i	576	50.00	15.63	-	
2	480i	480	59.94	15.73	-	

With HDTV input (AV4 and RGB1-component input)

No.	Signal mode			Horizontal frequency (kHz)	Dot clock frequency (kHz)	Remarks
	Signal name	Resolution	Vertical frequency (Hz)			
1	576p	576	50.00	31.26	-	
2	480p	480	59.94	31.47	-	
3	1080i/50	1080	50.00	28.13	-	
4	1080i/60	1080	60.00	33.75	-	
5	720p/60	720	59.94	44.96	-	
6	1080p/60	1080	59.94	64	-	

- 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 480 lines of vertical resolution at Full display (compressed display) can result in the interpolation of stripes.

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