APPENDIX H

: USER'S MANUAL

VIEWPIA

Colour Television

Owner's Manual



LC-23IU21 / LC-26IU11 / LC-27IU11 / LC-27IU21 / LC-27IU31 / LC-30IU21 / LC-32IU11 / LC-32IU21 / LC-32IU31 / LC-37IU11 / LC-37IU21 / LC-42IU11

Please read this manual carefully before operating your set. Retain it for future reference.

See the label attached on the back cover and quote this information to your dealer when you require service.

P/NO : MAN05GDP018

Warning



CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN



WARNING:

TO REDUCE THE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER TO QUALIFIED SERVICE PERSONNEL.



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



The exclamation point within 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.

WARNING:

TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

NOTE TO CABLE/TV INSTALLER:

This reminder is provided to call the CATV system installer’s attention to Article 820-40 of the National Electric Code (U.S.A.). The code provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of the cable entry as practical.

REGULATORY INFORMATION

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 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 that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.

Important safeguards for you and your new product

Your product has been manufactured and tested with your safety in mind. However, improper use can result in potential electrical shock or fire hazards. To avoid defeating the safeguards that have been built into your new product, please read and observe the following safety points when installing and using your new product, and save them for future reference.

Observing the simple precautions discussed in this booklet can help you get many years of enjoyment and safe operation that are built into your new product.

When Information with regard to safety is required according to this standard. This information shall be given in a separate booklet or sheet, or be located before any operating instructions in an instruction for installation for use and supplied with the apparatus. This information shall be in a language acceptable to the country where the apparatus is intended to be used.

The important safety instructions shall be entitled “Important Safety Instructions”. The following safety instructions shall be included where applicable, and, when used, shall be verbatim as follows. Additional safety information may be included by adding statements after the end of the following safety instruction list. At the manufacturer’s option, a picture or drawing that illustrates the intent of a specific safety instruction may be placed immediately adjacent to that safety instruction.

This product complies with all applicable U.S. Federal safety requirements, and those of the Canadian Standards Association.

1. Read these instructions
All the safety and operating instructions should be read before the product is operated.

2. Follow all instructions
All operating and use instructions should be followed.

3. Keep these Instructions
The safety and operating instructions should be retained for future reference.

4. Heed all warnings
All warnings on the product and in the operating instructions should be adhered to.

5. Cleaning
Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning. Clean only with dry cloth.

6. Water and Moisture
Do not use this product near water, for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool. Do not use this apparatus near water.

7. Accessories Carts and Stands
Do not place this product on a slippery or tilted surface, or on an unstable cart, stand, tripod, bracket, or table. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with the product. Any mounting of the product should follow the manufacturer’s instructions, and should use a mounting accessory recommended by the manufacturer. Only use attachments/accessories specified by the manufacturer. 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.

8. Transporting Product
A product and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the product and cart combination to overturn.



PORTABLE CART WARNING

9. Attachments
Do not use attachments not recommended by the product manufacturer as they may cause hazards.

10. Ventilation
Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from overheating, and these openings must not be blocked or covered. The openings should never be blocked by placing the product on a bed, sofa, rug, or other similar surface. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

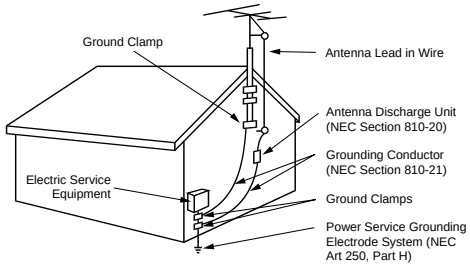
11. Power Sources
This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer to the operating instructions.

12. Power-Cord Polarization
This product is equipped with a three-wire grounding type plug, a plug having a third (grounding) pin. This plug will only fit into the grounding-type power outlet. This is a safety feature. If you are unable to insert the plug into the outlet, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the grounding-type plug. 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. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

13. Power-Cord Protection
Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the product. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged. liquid has been spilled or objects have fallen into the apparatus the apparatus has been exposed to rain or moisture does not operate normally or has been dropped.

14. Outdoor Antenna Grounding
If an outside antenna or cable system is connected to the product, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code (U.S.A.), ANSI/ NFPA 70 provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Example of Grounding According to National Electrical Code Instructions



NEC - National Electrical Code

15. Lightning
For added protection for this product (receiver) during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges. Unplug this apparatus during lightning storms or when unused for long periods of time.

16. Power Lines
An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

17. Overloading
Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

18. Object and Liquid Entry
Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.

19. Servicing
Do not attempt to service this product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

20. Damage Requiring Service
Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

a. If the power-supply cord or plug is damaged.
b. If liquid has been spilled, or objects have fallen into the product.
c. If the product has been exposed to rain or water.
d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
e. If the product has been dropped or the cabinet has been damaged.
f. If the product exhibits a distinct change in performance.

21. Service Instructions
These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

22. Replacement Parts
When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.

23. Safety Check
Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

24. Wall or Ceiling Mounting
The product should be mounted to a wall or ceiling only as recommended by the manufacturer. The product may slide or fall, causing serious injury to a child or adult, and serious damage to the product. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.

25. Heat
The product should be situated away from heat sources such as radiators, heat registers, stoves, or other products (including amplifiers) that produce heat.

26. Wet Location Marking
Apparatus shall not be exposed to dripping or splashing and no objets filled with liquids, such as vases, shall be placed on the apparatus.

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Location and function of controls

Remote control handset

- All the functions can be controlled with the remote control handset.
- Some functions can also be adjusted with the buttons on the front panel of the set.
- Before you use the remote control handset, please install the batteries.

POWER
switches the set On from standby or Off to standby.

NUMBER BUTTONS

PSM (Picture Status Memory)
recalls your preferred picture setting.

ARC
select your desired picture format.

FCR (Favorite Channels Setup)

MENU
selects a menu.

CC
Select a closed caption : Off, EZ Mute, and On.

PIP
Switches the sub picture on or off.

A.SWAP
PIP mode - main and sub picture audio select.

PIP PR +/-
Selects a program for the sub picture.

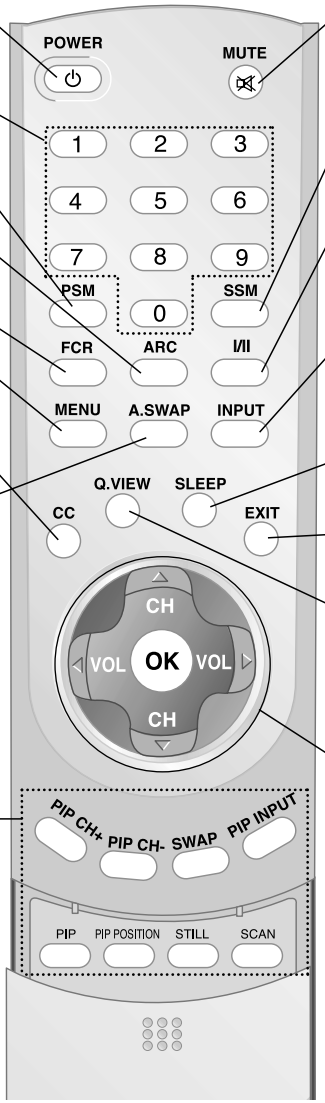
SWAP
Alternates between main and sub picture.

PIP INPUT
Selects the input mode for the sub picture.

PIP POSITION
relocates the sub picture in clockwise direction.

STILL
freezes motion of the sub picture.

SCAN
switches on the programme scan mode through 4/16 sub pictures.



MUTE
switches the sound on or off.

SSM (Sound Status Memory)
recalls your preferred sound setting.

I/II
selects the language during dual language broadcast.
selects the sound output (option).

INPUT SELECT
Select TV, AV1, AV2, S-VIDEO, COMPONENT, PC-RGB, DVI mode.
switches the set on from standby.

SLEEP
sets the sleep timer.

EXIT
exits from each mode.

Q.VIEW
returns to the previously viewed programme.

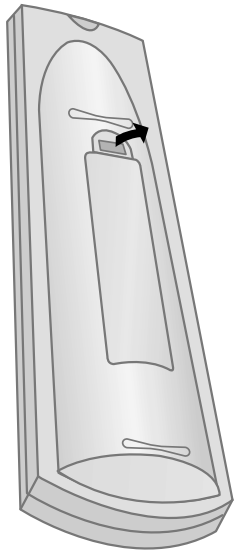
▲ / ▼ (Programme Up/Down)
selects a programme or a menu item.
switches the set on from standby.
◄ / ► (Volume Down/Up)
adjusts the volume.
adjusts menu settings.
OK
accepts your selection or displays the current mode.

Battery installation

- Your remote control handset is powered by two AAA type batteries.

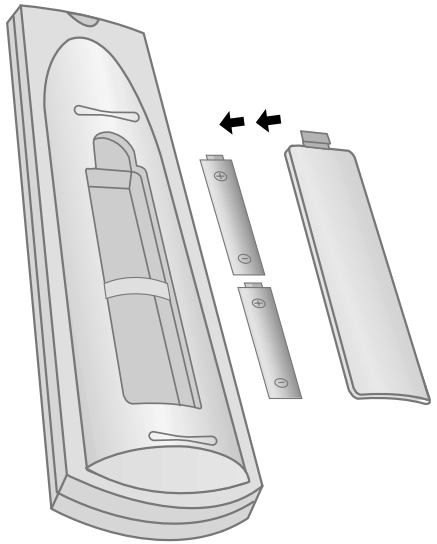
1

To insert batteries, turn the remote control handset over and remove the battery cover.



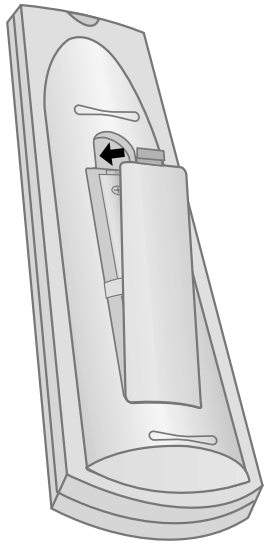
2

Put the two batteries into the compartment observing battery polarity.



3

Replace the cover.

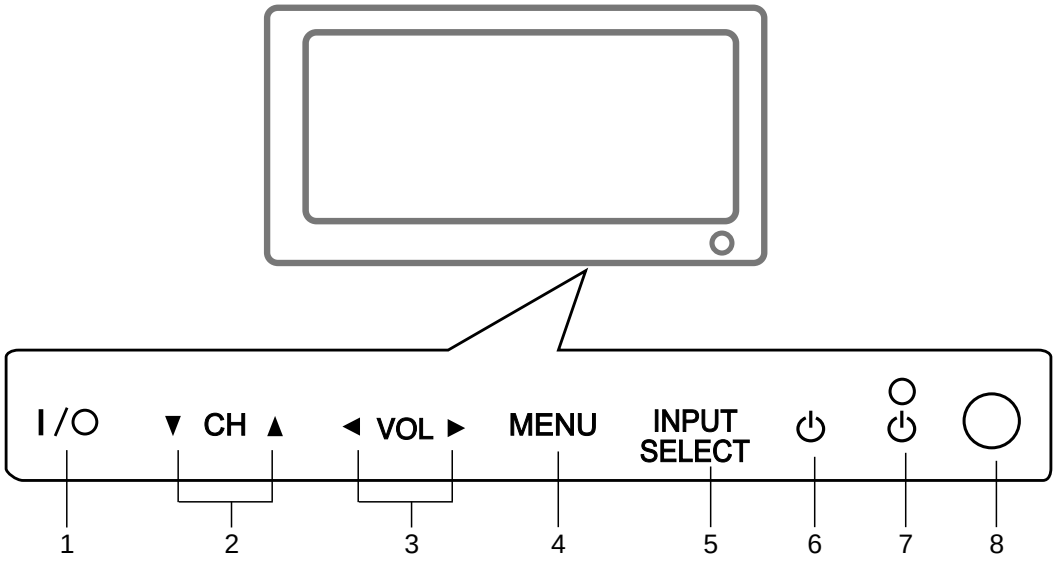


To avoid damage from possible battery leakage, remove the batteries if you do not plan to use the remote control handset for an extended period time. Do not use batteries of differing age or type. Always discard of batteries safely.

Location and function of controls

Front panel

- Shown is a simplified representation of the set.
- Here shown may be somewhat different from your set.



1. **MAIN POWER (I / ○)**
   switches the set On or Off.

2. **▲ / ▼ (Channel Up/Down)**
   selects a programme or a menu item.
   switches the set On from standby.

3. **◄ / ► (Volume Down/Up)**
   adjusts the volume.
   adjusts menu settings.

4. **MENU**
   selects a menu.

5. **INPUT SELECT**
   Select TV, AV1, AV2, S-VIDEO, COMPONENT, PC-RGB, DVI mode.
   switches the set on from standby.

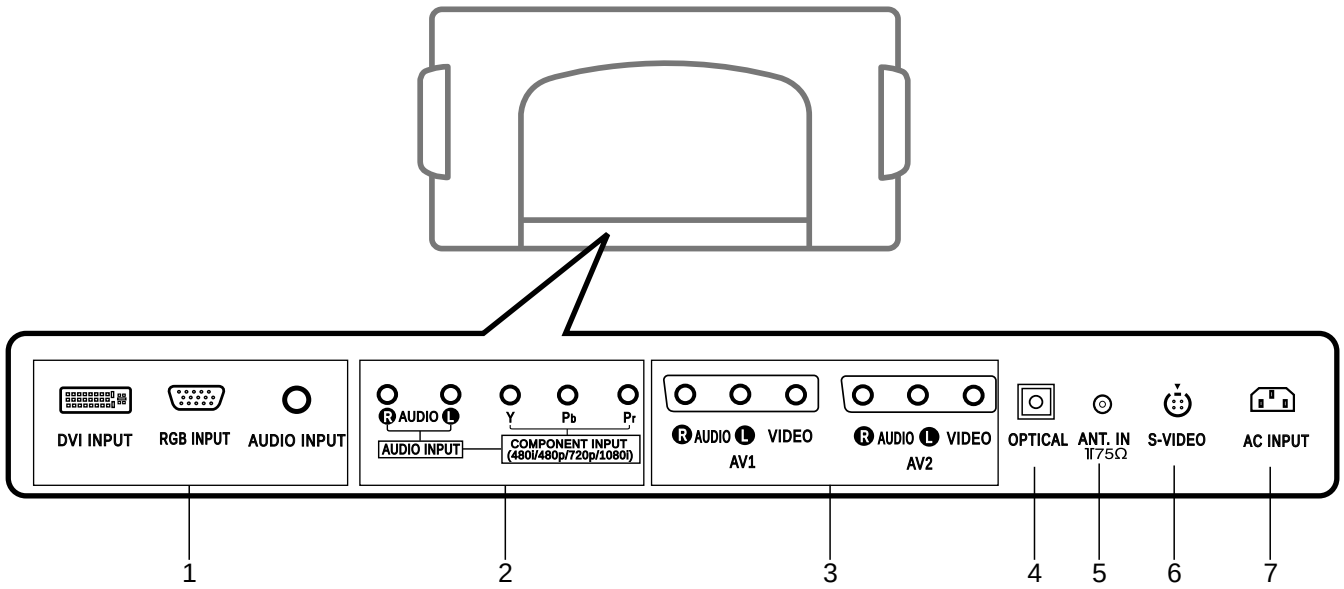
6. **POWER (⏻)**
   switches the set On from standby or On to standby.

7. **POWER/STANDBY INDICATOR (⏻)**
   illuminates red in standby mode.
   illuminates green when the set is switched on.

8. **REMOTE CONTROL SENSOR**

Location and function of controls

Back panel



1. **DVI INPUT / RGB INPUT / AUDIO INPUT SOCKETS**
   Connect the set output socket of the PERSONAL COMPUTER to this socket.

2. **AUDIO INPUT / COMPONENT INPUT (480i / 480p / 720p / 1080i) SOCKETS**

3. **AUDIO/VIDEO SOCKET**
   Connect the audio/video out sockets of the VCR to **AV** sockets of the set

4. **Digital Audio (OPTICAL)**
   Connect digital audio from various types of equipment.
   ***Note** : In standby mode, these ports will not work.*

5. **Antenna INPUT**

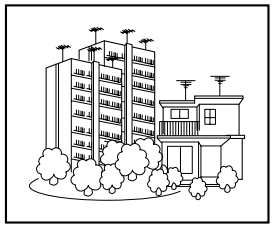
6. **S-VIDEO INPUT**
   connect video out from an S-VIDEO VCR to the S-VIDEO input.

7. **POWER CORD SOCKET**
   This set operates on an AC power. The voltage is indicated on the Specifications page. Never attempt to operate the set on DC power.

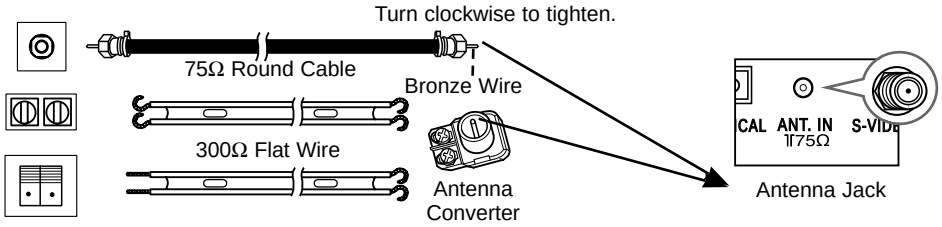
Connection to External equipment

Connecting to an Inside Antenna Setup

- Typical wall antenna jack used in apartment buildings, connect the antenna cable as shown below.
  (Use the correct type of antenna cable for the type of wall antenna jack.)



Apartment Buildings

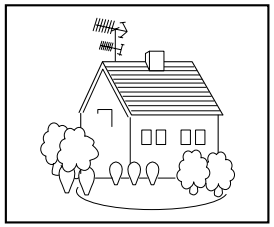


Wall Connection Jack

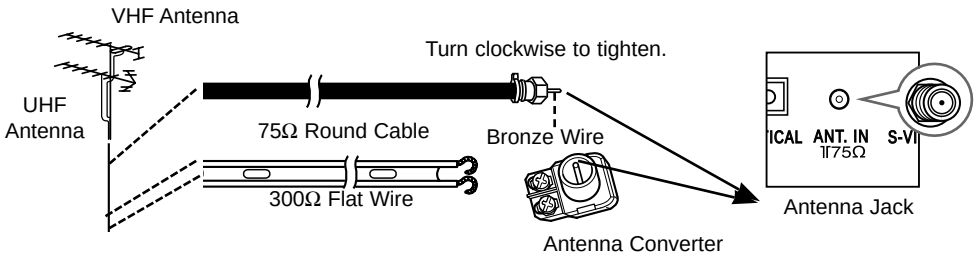
- If you have a 75Ω round cable, insert the bronze wire and then tighten the connection nut. If you have a 300Ω flat wire, connect the twisted wire to the antenna converter and then connect the converter to the antenna jack on the TV.
- If using 75Ω round cable, do not bend the bronze wire. It may cause poor picture quality.

Connecting to an Outdoor Antenna Setup

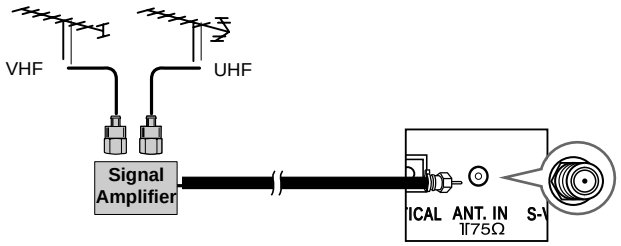
- This type of antenna is commonly used in single family dwellings.



Single Family Home



- In poor signal areas, to get better picture quality, install a signal amplifier to the antenna as shown to the right.
- If signal needs to be split for two TVs, use an antenna signal splitter for connection.



Connection to External equipment

VCR Setup

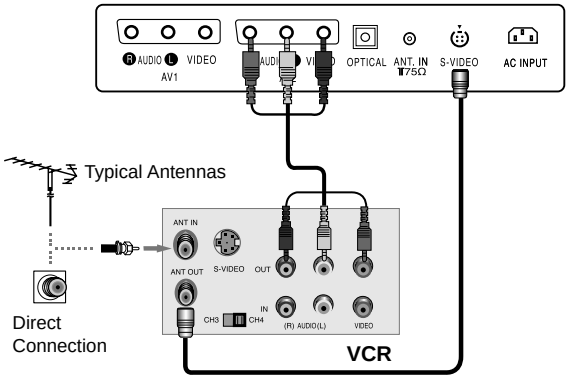
- In Video mode, TV automatically reverts to TV mode if the CH ▲ / ▼ button or number buttons are pressed.

Connection 1

Set VCR switch to 3 or 4 and then tune TV to the same channel number.

Connection 2

1. Connect the audio/video output jacks on VCR to the corresponding input jacks on the TV. When connecting the TV to a VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).
2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner's manual.)
3. Use the **INPUT SELECT** button on the remote control to select **AV1** or **AV2**. (If connected to S-VIDEO on side panel, select the **S-Video** external input source.)



Cable TV Setup

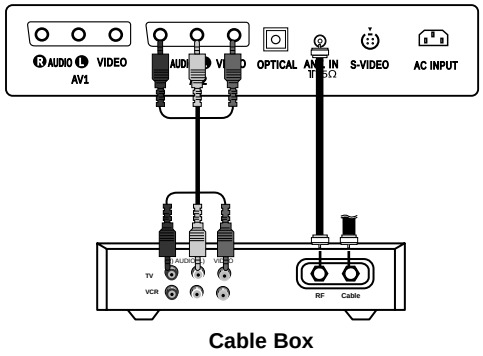
- After subscribing to a local cable TV service and installing a converter, you can watch cable TV programming.
- For further cable TV information, contact a local cable service provider.

Connection 1

1. Select 3 or 4 with channel switch on cable box.
2. Tune the TV channel to the same selected output channel of cable box.
3. Select channels at the cable box or with the cable box remote control.

Connection 2

1. Connect the audio/video output jacks on Cable Box to the corresponding input jacks on the TV. When connecting the TV to Cable Box, match the jack colors
   (Video = yellow, Audio Left = white, and Audio Right = red).
2. Use the **INPUT SELECT** button on the remote control to select **AV1** or **AV2**.
3. Select channels with the cable box remote control.



Cable Box

Connection to External equipment

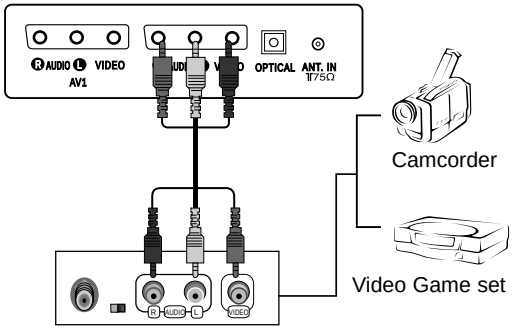
External A/V Source Setup

Connections

Connect the audio/video output jacks on the external A/V equipment to the corresponding input jacks on the TV. When connecting the TV to external A/V equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

Viewing Setup

1. Turn on the external A/V equipment.
2. Use the **INPUT SELECT** button on the remote control to select **AV1** or **AV2**.
3. Operate the corresponding external equipment. Refer to external equipment operating guide.



External Equipment

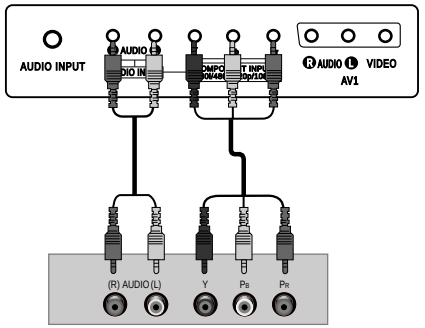
DVD Setup

Connections

Connect the DVD video outputs to the COMPONENT (Y, P_B, P_R) jacks and connect the DVD audio outputs to the AUDIO jacks.

Viewing Setup

1. Turn on the DVD player, insert a DVD.
2. Use the **INPUT SELECT** button on the remote control to select **COMPONENT**.
3. Refer to the DVD player's manual for operating instructions.



DVD

- **Component Input ports**
  To get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports of the TV	Y	P_B	P_R

Video output ports of DVD player			
	Y	Pb	Pr
	Y	B-Y	R-Y
	Y	Cb	Cr
	Y	P_B	P_R

DTV Setup

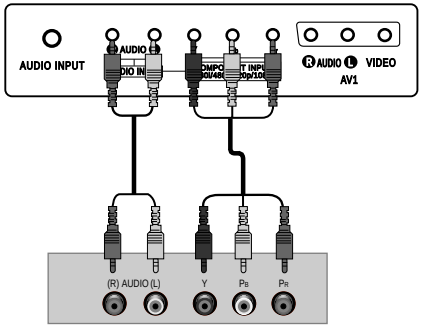
- To watch digitally broadcast programs, purchase and connect a digital set-top box.

Connections

Connect the digital set-top box video outputs to the COMPONENT (Y, P_B, P_R) jacks and connect the digital set-top box audio outputs to the AUDIO jacks.

Viewing Setup

1. Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
2. Use the **INPUT SELECT** button on the remote control to select **COMPONENT**.



DTV Receiver (Set-top Box)

PC / DTV Setup

Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the **RGB INPUT** socket of the set.

Connect the audio cable from the PC to the **AUDIO INPUT** sockets of the set.

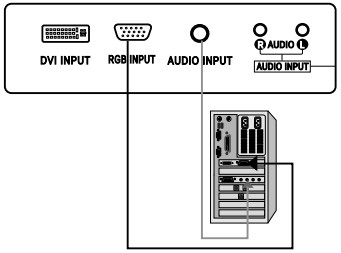
Press the **INPUT SELECT** button to select **PC-RGB**.

Switch on the PC, and the PC screen appears on the set.

The set can be operated as the PC monitor.

RGB-DTV input signal : 480p-60Hz, 576p-50Hz, 720p-50Hz, 720p-60Hz, 1080i-50Hz, 1080i-60Hz.

Note: *When the set is inputted RGB-DTV signal in RGB-PC mode, automatically it is set to RGB-DTV mode.*



Connection to External equipment

DVI / DTV

Connect the signal cable from the monitor output socket of the PERSONAL COMPUTER to the **DVI INPUT** socket of the set.

Connect the audio cable from the PC to the **AUDIO INPUT** sockets of the set.

Press the **INPUT SELECT** button to select **DVI**.

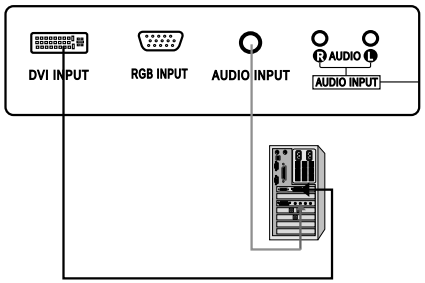
Switch on the DVI, and the DVI screen appears on the set.

DVI-DTV input signal : 480p-60Hz, 576p-50Hz, 720p-50Hz, 720p-60Hz, 1080i-50Hz, 1080i-60Hz.

Note: *When the set is inputted DVI-DTV signal in DTV mode, automatically it is set to RGB-DTV mode.*

DVI Interface with HDCP Copy Protection enables all-digital rendering of video without the losses.

This TV SET can receive the High-Definition Multimedia Interface(HDMI) or Input of Digital Visual Interface(DVI).



Digital Audio

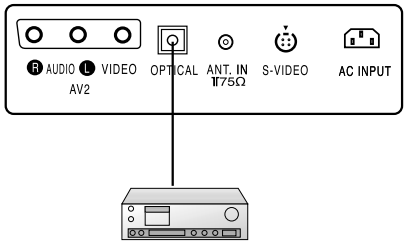
- Send the set's audio to external audio equipment (stereo system) via the Digital Audio Output (Optical)

Caution : Do not look into the optical output port. Looking at the laser beam may damage your vision.

How to connect

Connect one end of an optical cable to the TV Digital Audio (Optical) Output port.

Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment.



Basic operation

1 On and Off

Press the main power button to switch the set on.

If the set is in standby mode, press the **POWER**, ▲ / ▼ on the remote control handset to switch it on fully.

Press the **POWER** button on the remote control handset.

The set reverts to standby mode.

Press the main power button again to switch the set off.

2 Programme selection

You can select a channel number with the ▲ / ▼ or NUMBER buttons.

3 Volume adjustment

Press the ◄ / ► button to adjust the volume.

If you want to switch the sound off, press the MUTE button.
You can cancel it by pressing the **MUTE**, ◄ / ►, **SSM** or **I/II** button.

4 On screen language selection (option)

Press the **MENU** button and then use ▲ / ▼ button to select the SETUP menu.

Press the ► button and then use ▲ / ▼ button to select **Language**.

Press the ► button and then use ▲ / ▼ button to select your desired language. All the on screen displays will appear in the selected language.

Repeatedly press the **MENU** button to return to normal TV viewing.

On screen menus

Menu selection

- The dialogue between you and your set takes place on screen with an operator menu. The buttons required for the operating steps are also displayed.

1

Press the **MENU** button and then use ▲ / ▼ button to display each menu.

2

Press the ► button and then use ▲ / ▼ button to select a menu item.

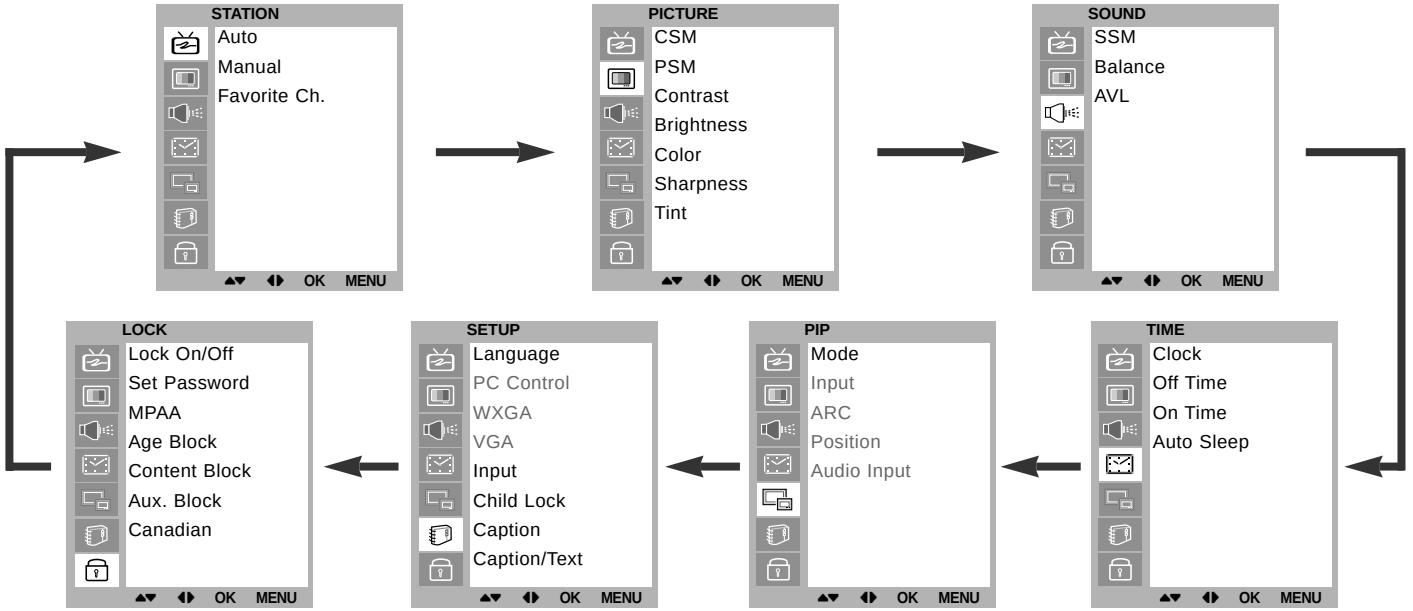
3

Press the ► button to display the sub menu or the pull-down menu.

4

Change the setting of an item in the sub or pull-down menu with ◄ / ► or ▲ / ▼.

You can move to the higher level menu with ◄ button and to move to the lower level menu press the ► button.



Memorizing the Channels with Auto

- For Auto to work, the programming source must be connected to the TV and the TV must be receiving programming signals either over-the-air or from a cable-type service provider.

Press the **MENU** button and then use ▲ / ▼ button to select the Station menu.

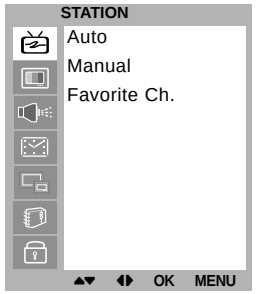
Press the ► button and then use ▲ / ▼ button to select **Auto.**

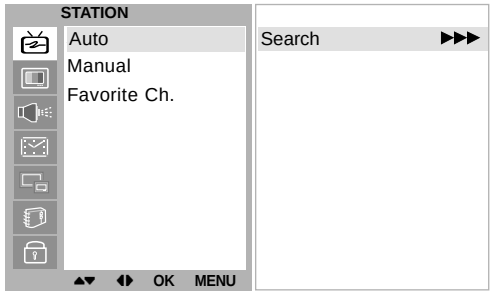
Press the ► button to begin the channel search.

- Wait for auto program to complete the channel search cycle before choosing a channel. The TV scans for over-the-air channels and then channels provided by a cable service.

NOTES

- When the channel search is complete, use the ▲ / ▼ buttons to review the memorized channels.
- If you press the **MENU** button in Auto, the function will stop and only channels programming up to that time will remain.
- Auto function can memorize only the channels which are being received at that time.





Setting up TV stations

Add/Delete Channels with Manual

- You can manually include or erase individual channels.

Press the **MENU** button and then use ▲ / ▼ button to select the Station menu.

Press the ► button and then use ▲ / ▼ button to select **Manual**.

Press the ► button and then use ▲ / ▼ button to select **Channel**.

Press the ◄ / ► button to select the programme number.

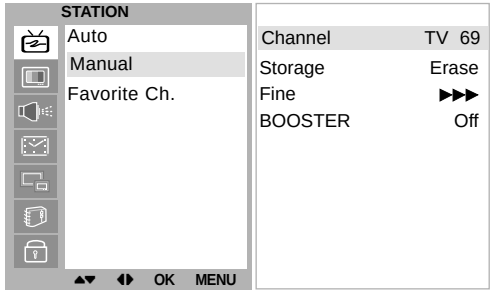
Press the ▲ / ▼ button to select **Storage**.

Press the ◄ / ► button to select **Memory** (add) or **Erase** (delete).

Repeatedly press the **MENU** button to return to normal TV viewing.

The current channel is added to Memory or Erased from the channel list.





Setting up TV stations

Fine Tuning Adjustment / BOOSTER

- This function adjusts the pictures stability and condition when it is poor.

Press the **MENU** button and then use ▲ / ▼ button to select the Station menu.

Press the ► button and then use ▲ / ▼ button to select **Manual**.

Press the ► button and then use ▲ / ▼ button to select **Fine**.

Use the ◄ / ► button to adjust the picture to your preference.

Press the ► button and then use ▲ / ▼ button to select **BOOSTER**.

Press the ◄ / ► button to select **On** or **Off**.

Repeatedly press the **MENU** button to return to normal TV viewing.

Favorite Channels Setup

- Favorite Channel lets you quickly tune in up to 5 channels of your choice without having to wait for the TV to scan through all the in-between channels.

Press the **MENU** button and then use ▲ / ▼ button to select the Station menu.

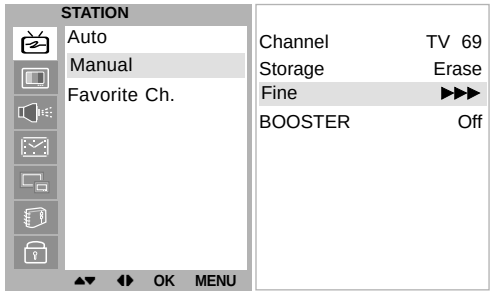
Press the ► button and then use ▲ / ▼ button to select **Favorite Ch.**.

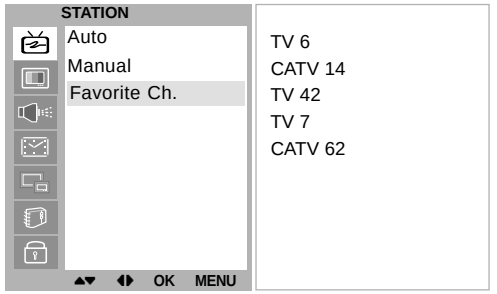
Press the ► button and then use ▲ / ▼ button to select the programme.

Press the **OK** button to save.

Repeatedly press the **FCR** button to select stored favorite programmes.







CSM (Colour Status Memory)

To initialize values (reset to default settings), select the **Normal** option.

Press the **MENU** button and then ▲ / ▼ button to select the PICTURE menu.

Press the ► button and then ▲ / ▼ button to select **CSM**.

Press the ► button and then ▲ / ▼ button to select the desired colour temperature.

Press the **MENU** button to save.

You can adjust red, green, or blue to any colour temperature you prefer.

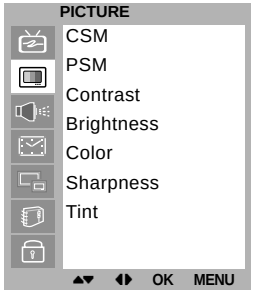
Press the **MENU** button and then use ▲ / ▼ button to select the PICTURE menu.

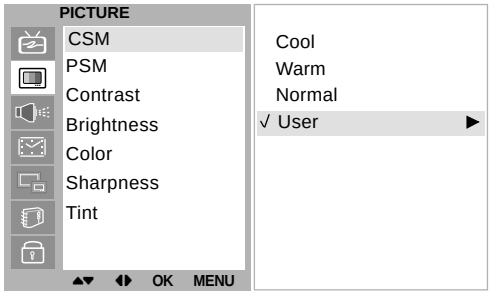
Press the ► button and then use ▲ / ▼ button to select **CSM**.

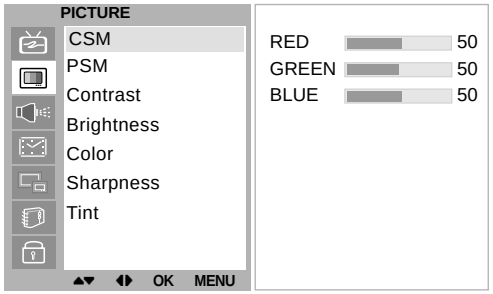
Press the ► button and then use ▲ / ▼ button to select **User**.

Press the ► button and then use ▲ / ▼ / ◄ / ► button to make appropriate adjustments.

Repeatedly press the **MENU** button to return to normal TV viewing.







Picture Menu

PSM (Picture Status Memory)

Press the **MENU** button and then use ▲ / ▼ button to select the PICTURE menu.

Press the ► button and then use ▲ / ▼ button to select **PSM**.

Press the ► button and then use ▲ / ▼ button to select a picture setting on the **PSM** pull-down menu.

Repeatedly press the **MENU** button to return to normal TV viewing.

You can also recall a desired picture (**Dynamic**, **Standard**, **Mild**, **Game** or **User**) with **PSM** button on the remote control. The picture **Dynamic**, **Standard**, **Mild** and **Game** are programmed for good picture reproduction at the factory and cannot be changed.

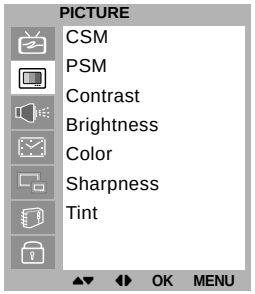
Manual Picture Control

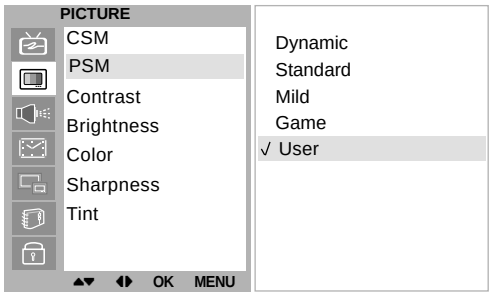
Press the **MENU** button and then use ▲ / ▼ button to select the PICTURE menu.

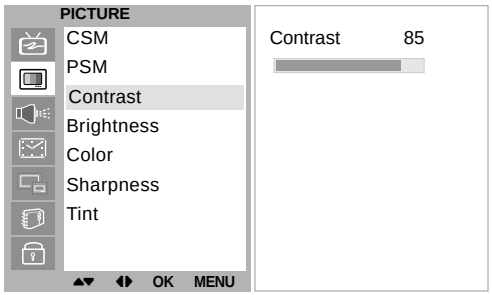
Press the ► button and then use ▲ / ▼ button to select the desired picture option.

Press the ► button and then use ◄ / ► button to make appropriate adjustments.

You can adjust picture contrast, brightness, colour, sharpness and tint to the levels you prefer.





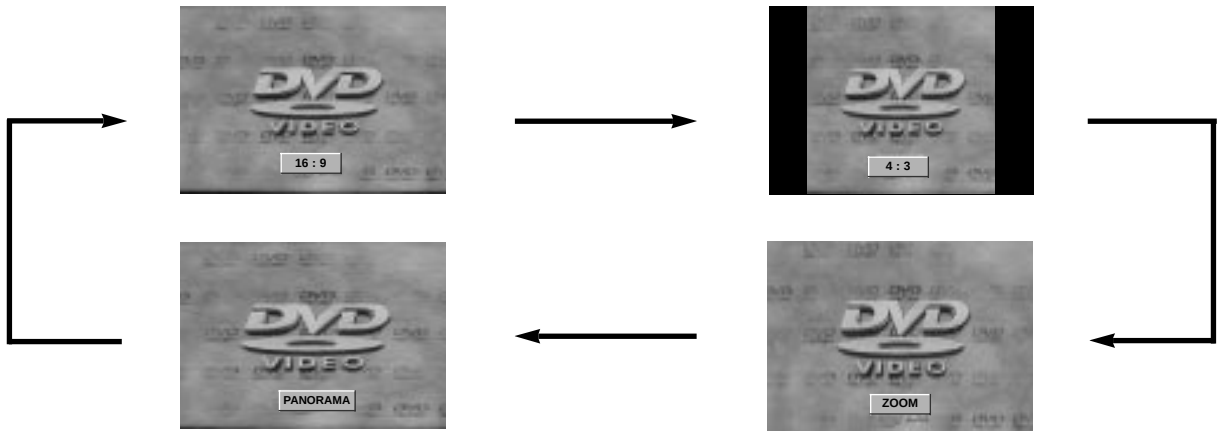


Picture format

You can watch TV in various picture formats; 16:9, 4:3, ZOOM, PANORAMA.
Repeatedly press the **ARC** button to select your desired picture format.

1. Press the **ARC** button to select a desired picture format.

   • Each press of **ARC** button changes the screen display as shown below.
   • You can only select 16:9, 4:3 in PC-RGB / DVI mode only.



Sound Menu

SSM (Sound Status Memory)

Press the **MENU** button and then use ▲ / ▼ button to select the SOUND menu.

Press the ► button and then use ▲ / ▼ button to select **SSM**.

Press the ► button and then use ▲ / ▼ button to select a sound setting on the **SSM** pull-down menu.

Repeatedly press the **MENU** button to return to normal TV viewing.

Sound Frequency Adjustment

a. Press the ► button in **User**.

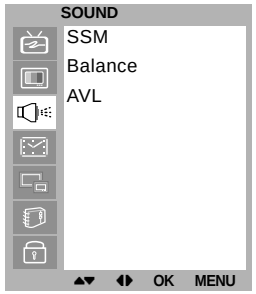
b. Select a sound band by pressing the ◄ / ► button.

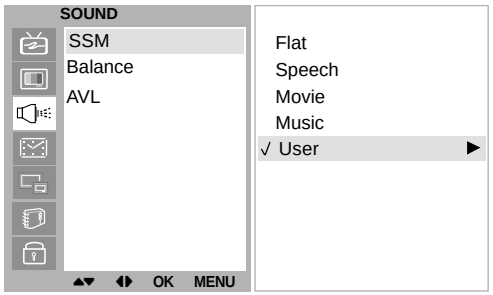
c. Make appropriate sound level with the ▲ / ▼ button.

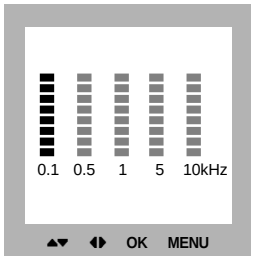
d. Press the **OK** button to store it for the sound **User**.

The display **Stored** will appear.

You can also recall a desired sound (**Flat**, **Speech**, **Movie**, **Music** or **User**) with **SSM** button on the remote control. The sound **Flat**, **Speech**, **Movie** and **Music** are programmed for good sound reproduction at the factory and cannot be changed.







Balance

Press the **MENU** button and then use ▲ / ▼ button to select the SOUND menu.

Press the ► button and then use ▲ / ▼ button to select the desired sound item.

Press the ► button and then use ◄ / ► button to make appropriate adjustments.

Repeatedly press the **MENU** button to return to normal TV viewing.

AVL (Auto Volume Leveler)

Press the **MENU** button and then use ▲ / ▼ button to select the SOUND menu.

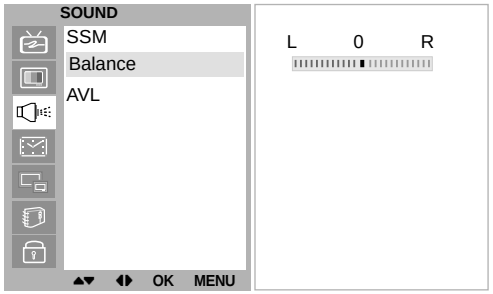
Press the ► button and then use ▲ / ▼ button to select **AVL**.

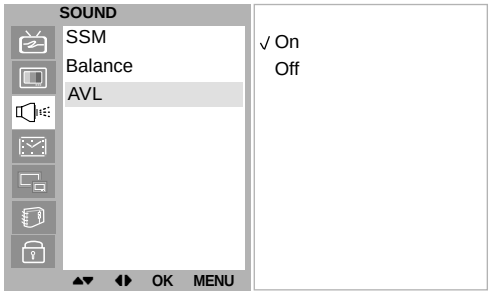
Press the ► button and then use ▲ / ▼ button to select **On** or **Off**.

Repeatedly press the **MENU** button to return to normal TV viewing.

This feature maintains an equal volume level; even if you change channels.

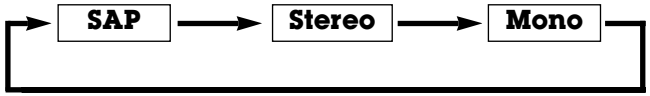






Stereo/SAP Broadcasts Setup

- The TV can receive MTS stereo programs and any SAP (Secondary Audio Program) that accompanies the stereo program, if the broadcaster transmits an additional sound signal as well as the original one.
- Mono: The primary language is heard from left and right speakers. Signal mode is mono.
- Stereo: The primary language is heard from left and right speakers. Signal mode is stereo.
- SAP: The secondary language is heard from left and right speakers.



1. Press the **I/II** button repeatedly.

- Select mono sound mode if the signal is not clear or in poor signal reception areas.
- **Stereo**, **SAP** mode are available only if included on the broadcast signal.

Clock

You must set the time correctly before using on/off time function.

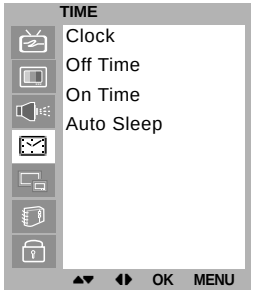
Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.

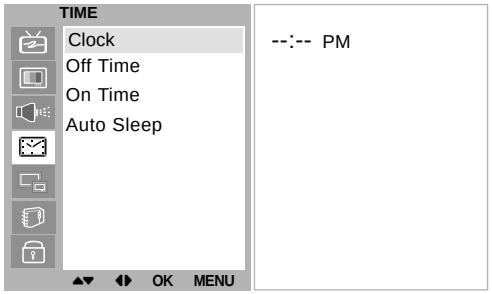
Press the ► button and then ▲ / ▼ button to select **Clock**.

Press the ► button and then ▲ / ▼ button to adjust the hour.

Press the ► button and then ▲ / ▼ button to adjust the minute.

Press the **MENU** or **OK** button to save.





Time Menu

On/Off Time

The off timer automatically switches the set to standby at the preset time.

Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.

Press the ► button and then ▲ / ▼ button to select **Off Time** or **On Time**.

Press the ► button and then ▲ / ▼ button to select **On**.

To cancel **Off/On Time** function, press the ▲ / ▼ button to select **Off**.

Press the ► button and then ▲ / ▼ button to adjust the hour.

Press the ► button and then ▲ / ▼ button to adjust the minute.

Only On time function; Press the ► button and then ▲ / ▼ button to adjust volume level and programe number.

Press the **MENU** or **OK** to save.

Note :

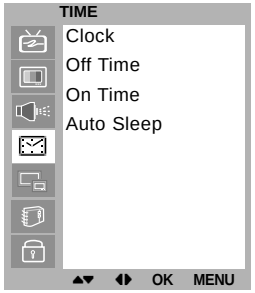
a. In the event of power interruption (disconnection or power failure), the clock must be reset.

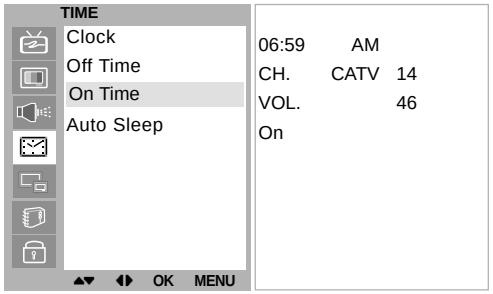
b. Two hours after the set is switched on by the on time function it will automatically switch back to standby mode unless a button has been pressed.

c. Once the on or off time is set, these functions operate daily at the preset time.

d. Off Timer function overrides On Timer function if they are set to the same time.

e. The set must be in standby mode for the On Timer to work.





Auto sleep

If you select **On** on the **Auto Sleep** menu, the set will automatically switch itself to standby mode approximately ten minutes after a TV station stops broadcasting.

Press the **MENU** button and then ▲ / ▼ button to select the TIME menu.

Press the ► button and then ▲ / ▼ button to select **Auto Sleep**.

Press the ► button and then ▲ / ▼ button to select **On** or **Off**.

Press the **MENU** or **OK** button to save.

Sleep timer

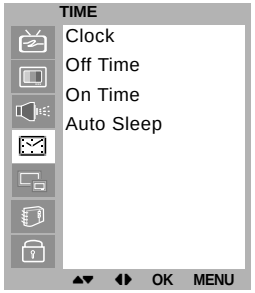
You don't have to remember to switch the set off before you go to sleep. The sleep timer automatically switches the set to standby after the preset time has elapsed.
Press the **SLEEP** button to select the number of minutes. The display ' - - - min ' will appear on the screen, followed by **10**, **20**, **30**, **60**, **90**, **120**, **180** and **240**. The timer begins to count down from the number of minutes selected.

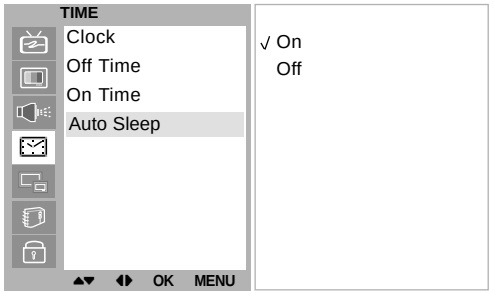
Note :

*a. To view the remaining sleep time, press the **SLEEP** button once.*

*b. To cancel the sleep time, repeatedly press the **SLEEP** button until the display ' - - - min ' appears.*

c. When you switch the set off, the set releases the preset sleep time.





Child lock

The TV can be set so that the remote control handset is needed to control it. This feature can be used to prevent unauthorized viewing.

Press the **MENU** button and then ▲ / ▼ button to select the Setup menu.

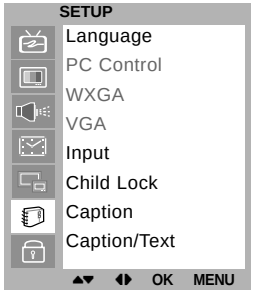
Press the ▶ button and then ▲ / ▼ button to select **Child lock**.

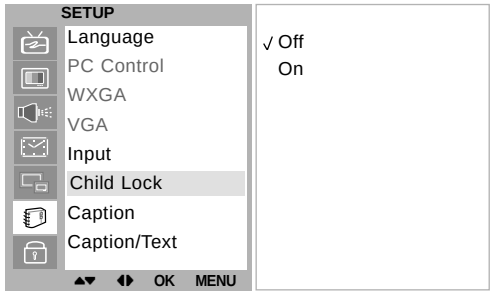
Press the ▶ button and then ▲ / ▼ button to select **On** or **Off** on the **Child lock** menu.

Repeatedly press the **MENU** button to return to normal TV viewing.

With the lock on, the display **Child lock on** appears on the screen if any button on the side panel is pressed while viewing the TV.

Note : *The display* ***Child lock on*** *will not appear on the screen if any button on the panel is pressed while displaying the menus.*





Caption

Use the **cc** button repeatedly to select Captions.

EZ Mute shows the selected captions option (if available on program) when the TV sound is muted.

Press the **MENU** button and then use ▲ / ▼ button to select the SETUP menu.

Press the ► button and then use ▲ / ▼ button to select **Caption**.

Press the ► button and then use ▲ / ▼ button to select **Off**, **On** or **Ez Mute**.

Press the **MENU** or **OK** button to save.

Note : It's not available in Component and RGB-PC modes.

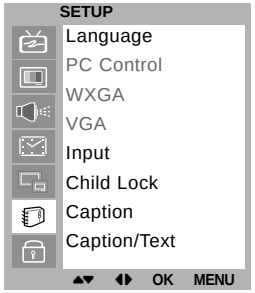
Caption/Text

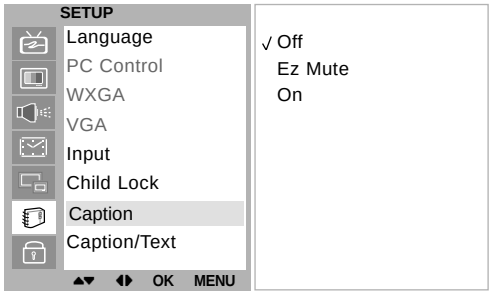
Press the **MENU** button and then use ▲ / ▼ button to select the SETUP menu.

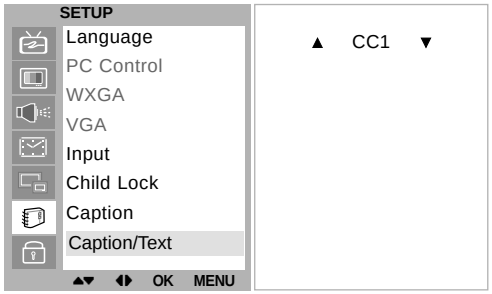
Press the ► button and then use ▲ / ▼ button to select **Caption/Text**.

Use the ◄ / ► button to select your caption selection. Your choices are: **CC1**, **CC2**, **CC3**, **CC4**, **Text 1**, **Text 2**, **Text3** and **Text4**.

Press the **EXIT** button to save and return to TV viewing.







Lock Menu (option)

Lock Menu Options

Parental Control can be used to block specific channels, ratings and other viewing sources.

The Parental Control Function (V-Chip) is used to block program viewing based on the ratings sent by the broadcast station. The default setting is to allow all programs to be viewed. Viewing can be blocked by the type of program and by the categories chosen to be blocked. It is also possible to block all program viewing for a time period. To use this function, the following must be set :

1. Ratings and categories to be blocked. 2. Set a password 3. Enable the lock

V-Chip rating and categories

Rating guidelines are provided by broadcast stations. Most television programs and television movies can be blocked by TV Rating and/or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

For Movies previously shown in theaters :

Movie Ratings :

- Unblocked
- G and Above
  : (general audience)
- PG and Above
  : (parental guidance suggested)
- PG-13 and Above
  : (13 years and older))
- NC-17 and Above
  : (18 years and older)
- X : (adult)

If you set PG-13 and Above : G and PG movies will be available , PG-13, NC-17 and X will be blocked.

For Television programs including made-for-TV movies:

General TV Ratings:

- Unblocked
- TV-G and Above
  : (general audience)
  : (individual categories do not apply)
- TV-PG and Above
  : (parental guidance suggested)
- TV-14 and Above
  : (14 years and older)
- TV-MA
  : (mature audience)

Children TV Ratings:

- Unblocked
- TV-Y and Above
  : (youth) (individual content categories do not apply)
- TV-Y7
  : (youth, 7 years and older)

Lock Menu (option)

Content Categories:
- Dialog - sexual dialogue
  : (applies to TV-PG and Above, TV-14, Unblocked)
- Language - adult language
  : (applies to TV-PG and Above,TV-14 and Above, TV-MA, Unblocked)
- Sex scenes - sexual situations
  : (applies to TV-PG and Above, TV-14 and Above, TV-MA, Unblocked)
- Violence
  : (applies to TV-PG and Above, TV-14 and Above, TV-MA, Unblocked)
- F Violence - fantasy violence
  : (applies to TV-PG and Above, TV-14 and Above, TV-MA, Unblocked)

For Canadian English/French language rating system:

Canadian English language rating system:
- C and Above
  : Children)
- C8+ and Above
  : (8 years and up)
- G and Above
  : (General programming. Suitable for all audiences.)
- PG and Above
  : (Parental guidance suggested)
- 14+and Above
  :(Viewers 14 years and older)
- 18+
  : (Adult programming)
- Unblocked

Canadian French language rating system:
- G (General)
- 8 ans+ (8 years and older)
- 13 ans+ (13 years and older)
- 16 ans+ (16 years and older)
- 18 ans+ (Adults only)
- Unblocked

Lock Menu (option)

Lock Menu Setup

Press the **MENU** button and then use ▲ / ▼ button to select the LOCK menu.

Then, press the ► button.

- If **Lock** is already set, enter the password requested.
- The TV is set with the initial password “0-0-0-0”.

Setting Lock on/off:

Press the ▲ / ▼ button to select **Lock on/off**.

Press the ► button and then use ▲ / ▼ button to select **on** or **off**.

Set password:

Press the ▲ / ▼ button to select **Set password**.

Press the ► button and then enter a four digit password.

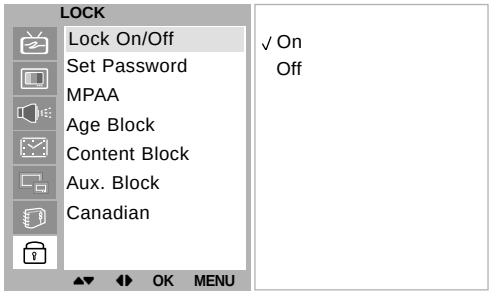
Enter it again when requested.

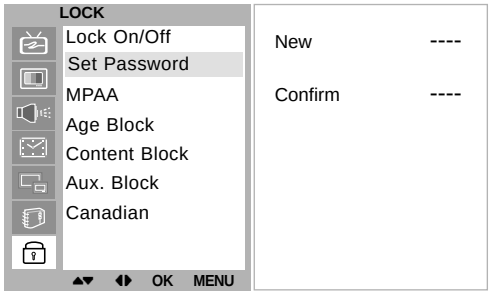
Press the ▲ / ▼ button to select type of blocking to be set.

Press the ► button and then use ▲ / ▼ button to select type of ratings to block .

- **Age block**, **Content block**, and **Canadian** menus, also have sub menus. So, repeat steps 4 and 5 in the sub menu, to set the types of blocking and ratings.







PC Setup

You can adjust horizontal/vertical position, clock, phase, and auto-configure, reset as you prefer.

Press the **MENU** button and then ▲ / ▼ button to select the SETUP menu.
Press the ► button and then ▲ / ▼ button to select the desired picture item.
Press the ◄ / ► button to make appropriate adjustments.

H-Position / V-Position
This function is to adjust picture to left/right and up/down as you prefer.

Clock
This function is to minimize any vertical bars or stripes visible on the screen background. And the horizontal screen size will also change.

Phase
This function allows you to remove any horizontal noise and clear or sharpen the image of characters.

Auto-configure
This function is for the automatic adjustment of the screen position, clock and phase. The displayed image will disappear for a few seconds while the Auto-configuration is in progress.

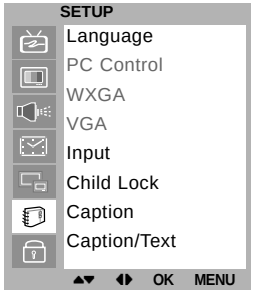
Reset
This function allows you to return to the good picture reproduction programmed at the factory and cannot be changed.

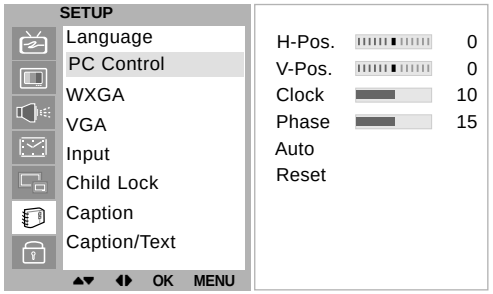
Note : *Some signal from some graphics boards may not function properly. If the results are unsatisfactory, adjust your monitor's position, clock and phase manually.*

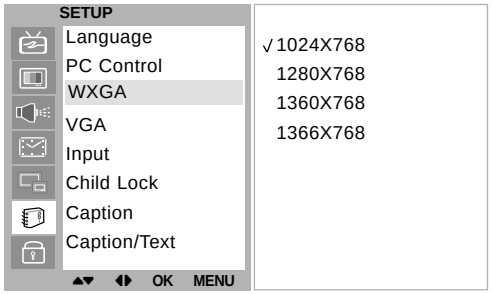
Press the **OK** button to store it for the PC monitor picture.
Press the **EXIT** button to return to PC mode.

WXGA (or VGA (Only RGB[DVI] mode))

- When the set is inputted DVI-480p signal in VGA mode, select 480p on the SETUP menu.
- When the set is inputted WXGA signal, select select the desired WXGA resolution.







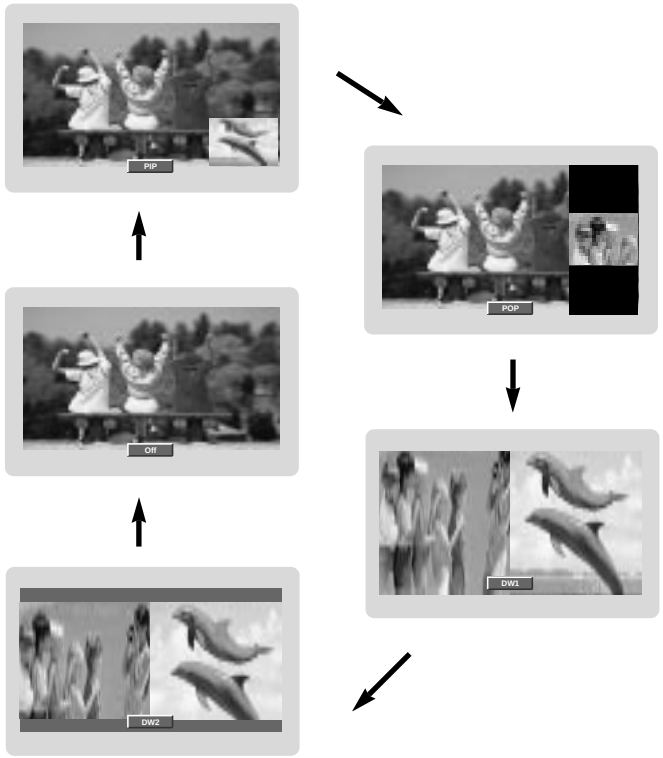
PIP (Picture-In-Picture) Feature

- PIP lets you view 2 different inputs (sources) on your monitor screen at the same time. One source will be large, and the other source will show a smaller inset image.
- PIP is not available in **Lock On** mode only.

Watching PIP

Press the **PIP** button to show the sub picture.

- Each press of **PIP** button changes the screen display as shown below.



PIP Audio Input

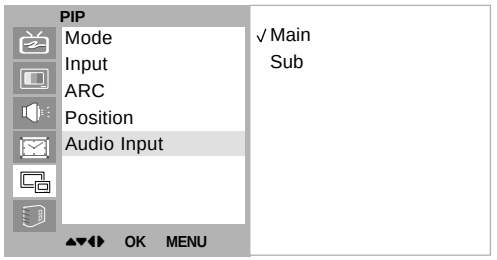
PIP mode - main and sub picture audio select.

Press the **MENU** button and then ▲ / ▼ button to select the PIP menu.

Press the ► button and then ▲ / ▼ button to select **Audio Input**.

Press the ► button and then ▲ / ▼ button to select **Main** or **Sub**.

Repeatedly press the **MENU** button to return to normal TV viewing.

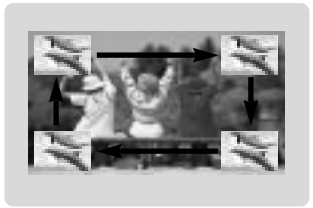


PIP (Picture-In-Picture) Feature

Moving the PIP

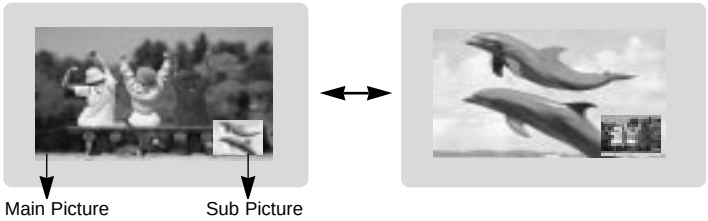
Press the **PIP POSITION** button.

Press the **PIP POSITION** button repeatedly until desired position is achieved. The sub pictures move clockwise.



Swapping the PIP

Press the **SWAP** button to exchange the main and sub pictures.



Programme selection for sub picture

Press the **PIP PR +/-** button. The selected programme number is displayed just below the programme number of main picture.

Selecting a Input Signal Source for the PIP

Use the **PIP INPUT** button to select the input source for the sub picture.



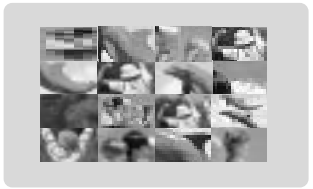
Programme scan

This function enables you to search all the stored stations on 4 or 16 sub pictures and see your favorite station by exchanging the main and sub pictures.

Press the **SCAN** button repeatedly to select POP4/POP16.
The selected sub or main pictures search all the stored stations.
Press the **EXIT** button to switch off sub or main pictures.

This function works in the following mode : TV, AV1, AV2, S-VIDEO.





Displayable Monitor Specification

RGB Mode / DVI Mode

MODE	Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
DOS	640X350	61.5	70.0
	720X400	31.5	70.0
		37.9	85.0
VGA	640X480	31.5	60.0
		37.8	72.0
		37.5	75.0
		43.2	85.0
SVGA	800X600	35.1	56.0
		37.9	60.0
		48.0	72.0
		46.9	75.0
		53.7	85.0
XGA	1024X768	48.4	60.0
		56.4	70.0
		60.0	75.0
		60.0	85.0
SXGA	1280X1024	63.9	60.0
		75.0	70.0
		79.9	75.0
		91.1	85.0
WXGA	1280X768	47.7	60.0
		60.1	75.0
		68.5	85.0
	1360X768	49.0	60.0
	1366X768	49.0	60.0
UXGA	1600X1200	75.0	60.0
MAC	832X624	49.7	75.0

(Synchronization input form : separate)

Note:

a. If the set is cold, there may be a small “flicker” when the set is switched on. This is normal, there is nothing wrong with the set.

b. If possible, use the VESA 1,024x768@60Hz video mode to obtain the best image quality for your LCD monitor. If used to PC vertical frequency 85Hz, some noise can be seen when PIP is on. In this case, set the PC vertical frequency to 60Hz. The set has been pre-adjusted to the mode VESA 1,024x768@60Hz.

c. Some dot defects may appear on the screen, like Red, Green or Blue spots. However, this will have no impact or effect on the monitor performance.

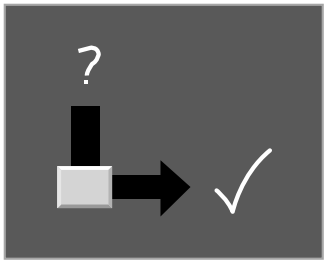
d. Do not press the LCD screen with your finger for a long time as this may produce some temporary distortion effects on the screen.

e. When the PC screen appears on the set, a message may appear on the screen, and the message will differ according to the Window system version (Win98, 2000). If a message appears click “Next” until the message finishes.

f. If the message “**Out Of Range**” appears on the screen, adjust the PC as in the ‘Displayable Monitor Specification’ section.

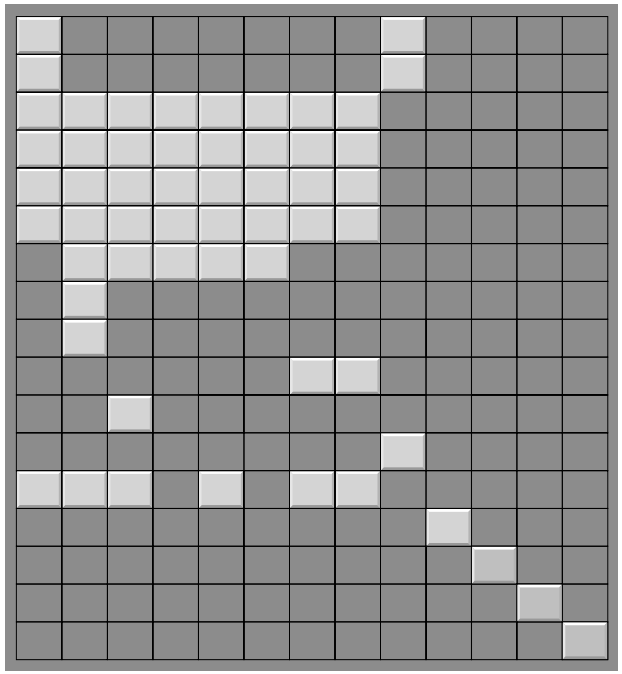
Troubleshooting
Check list

EN



Symptoms

No picture, no sound
Sound OK, poor picture
Picture OK, poor sound
Picture blurred
Lines or streaks in picture
Poor reception on some channels
No colour
Poor colour
Remote control does not work
Incorrect position
Vertical bars or stripes on background
Horizontal noise
Signal Cable message appears



Check these items and try to adjust these

- The mains plug-(plugged in and switched on)
- Is the TV switched on
- Try another channel (weak signal)
- Check aerial (plugged into TV?)
- Check aerial (broken lead?)
- Check aerial
- Check for local interference
- Adjust contrast
- Adjust brightness
- Adjust colour
- Adjust volume
- Check the batteries in remote control
- Check Audio/Video sockets (VCR only)
- Auto-configure or adjust the H/V position
- Auto-configure or adjust Clock
- Auto-configure or adjust Clock Phase
- Is the Signal Cable connected or loose