



30" LCD TV User's Guide

- Please observe all safety precautions when using this product.
- Please read this manual carefully before using this product.

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- Quick and Easy Installation
- Versatility and Expandability
- That doesn't make you feel fatigue on your Eyes.
- Flat-Panel Digital Display easy on the Eyes.

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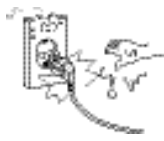
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Safety Precautions

Power Supply

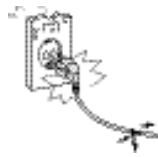
Warnings

Do not touch the power plug with wet hands. Doing so may result in electric shock.



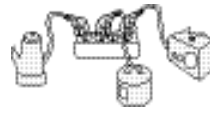
Do not use a damaged power cord or plug or a loose outlet.

Doing so may result in fire or electric shock.



Do not plug several devices into the same outlet.

Doing so may cause the outlet to overheat and start a fire.

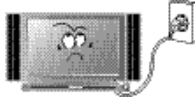


Insert the power plug fully into the outlet.

A loose or improperly inserted power plug may result in fire.

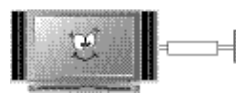


Do not bend the power cord excessively or place heavy objects on it. Doing so may result in fire or electric shock.



Be sure to ground the unit.

Failing to do so may lead to electric shock when a short circuit or overload occurs. If necessary, install a ground fault circuit breaker. Never ground to a telephone line, lightning rod, or metal gas pipe. (Doing so may result in fire, electric shock, or other hazards.)



Cautions

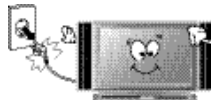
When disconnecting the power cord from an AC outlet, always grasp it by the plug.

Pulling on the cord can damage the internal wire and may result in fire.



Always unplug the unit before cleaning.

Not doing so may result in fire or electric shock.



The purpose of these precautions is to ensure user safety and prevent property damage.

Be sure to read and observe all safety precautions.



Safety Precautions

Installation

Warnings

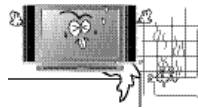
Do not place containers with liquids such as flower vases, soft drink cans, or medicine bottles or small metallic objects on top of the unit.

If liquid enters the unit or any metal object falls into the unit, it may result in short-circuit, fire, or electric shock.



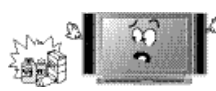
Do not place the unit where it is exposed to rain, excessive moisture or grease.

Doing so may result in fire, electric shock, malfunction, or deformation.



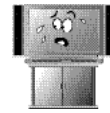
Do not use or store flammable or combustible materials near the unit.

Doing so may result in fire or explosion.



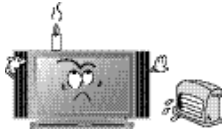
Do not place the unit on an unstable surface, such as a wobbly stand or sloped table, or on any surface whose area is smaller than the bottom area of the unit.

If a child climbs on the unit, it could topple and fall onto the child, resulting in serious injury to the child or damage to the unit. Place the unit on a flat stable surface.



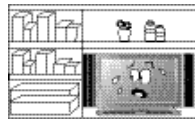
Do not place a burning candle, burning anti-mosquito incense, or lighted cigarette on top of the unit. Do not place the unit near any heat source such as a fireplace or space heater.

Doing so poses a serious risk of fire.



Do not place the unit in a poorly ventilated enclosure, such as a cabinet.

Doing so poses a serious risk of fire.



Do not run power cords near heat-producing appliances such as radiators, stoves, or irons.

The excessive heat could melt the insulation and expose live wires, resulting in fire or electric shock.



Install the antenna away from high-voltage power lines and communication cables and make sure it is installed securely.

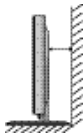
If the antenna touches a power line, contact with the antenna could result in fire, electric shock, serious injury, or death.



Cautions

Install the unit at an adequate distance from the wall to ensure sufficient ventilation.

If the temperature inside the unit rises, it may result in fire.

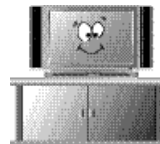


Do not cover the unit with a tablecloth, curtain, or other material.

If the temperature inside the unit rises, it may result in fire.



Be sure to place the unit on a level surface.



Warnings

Form a drip loop where the coaxial antenna cable enters your building to prevent rainwater from traveling along the cable and coming in contact with the antenna input terminal.

If rainwater finds its way inside the unit, it may result in fire or electric shock.



● The following precautions are divided into "Warnings" and "Cautions".

⚠ Warning : Ignoring this precaution may result in death or serious injury.

⚠ Caution : Ignoring this precaution may result in injury or property damage.

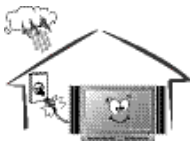
Safety Precautions

Use and Maintenance

Warnings

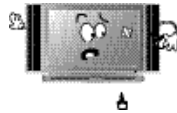
Disconnect the power cord from the wall outlet during an electrical storm.

Not doing so may result in fire or electric shock.



Do not insert any metal objects, such as a screwdriver, paper clip, or bent wire into the ventilation openings or A/V terminals.

Doing so poses a serious risk of fire or electric shock.



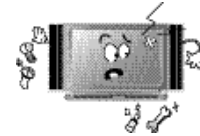
Do not allow children to climb or hang on the unit.

The unit could topple over onto a child and result in serious injury.



Never disassemble or modify the unit in any way. Do not attempt to service the unit yourself.

Doing so may result in fire or electric shock. If the unit requires repair, contact the service center.



Cautions

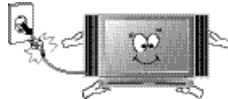
When not using the unit for long periods of time, disconnect the power cord from the wall outlet.

Dust could accumulate over time on the unit and cause it to generate heat and ignite, or deteriorate insulation, which in turn may result in an electrical fire.



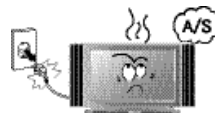
When moving the unit, be sure to turn off the unit and unplug the power cord from the wall outlet.

Moving the unit with the power cord connected to the outlet may cause damage to the cord, resulting in fire or electric shock.



If you notice any unusual odors or smoke around the unit, immediately disconnect the unit from the outlet and contact the service center.

Failure to do so may result in fire or electric shock.



Warnings

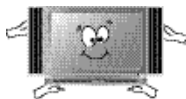
When removing the batteries from the remote control, make sure children do not swallow them. Keep the batteries out of the reach of infants and children.

If a child has swallowed a battery, seek medical attention immediately.



Always use two or more people to lift or move the unit.

If the unit is dropped, it could be damaged or otherwise cause injury.



Wipe off any moisture, dirt, or dust on the power plug pins with a clean dry cloth.

Failure to do so may result in fire or electric shock.



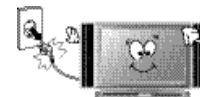
It is advisable to clean the interior of the unit at least once a year. Contact the store of purchase or service center for information.

Continuing to use the unit without cleaning off the dust build-up inside it may result in fire or electric shock.



Always turn off the unit and unplug the power cord when cleaning the unit. Use a soft dry cloth to clean the unit.

Never clean with industrial strength polish, wax, benzene, paint thinner, air freshener, lubricant, detergent, or other such chemicals. Also, do not clean with a damp cloth.



What is LCD TV?

LCD (Liquid Crystal Display) is a next generation flat-panel display module. Liquid crystal material is contained between sheets of glass and electricity causes the liquid crystal material to reflect or block the light emitted from a light source inside the display chassis.

By incorporating this LCD display module, LCD TVs enable you to enjoy outstanding picture quality without the worries of space limitation and harmful radiation you may have experienced with conventional CRT TVs.

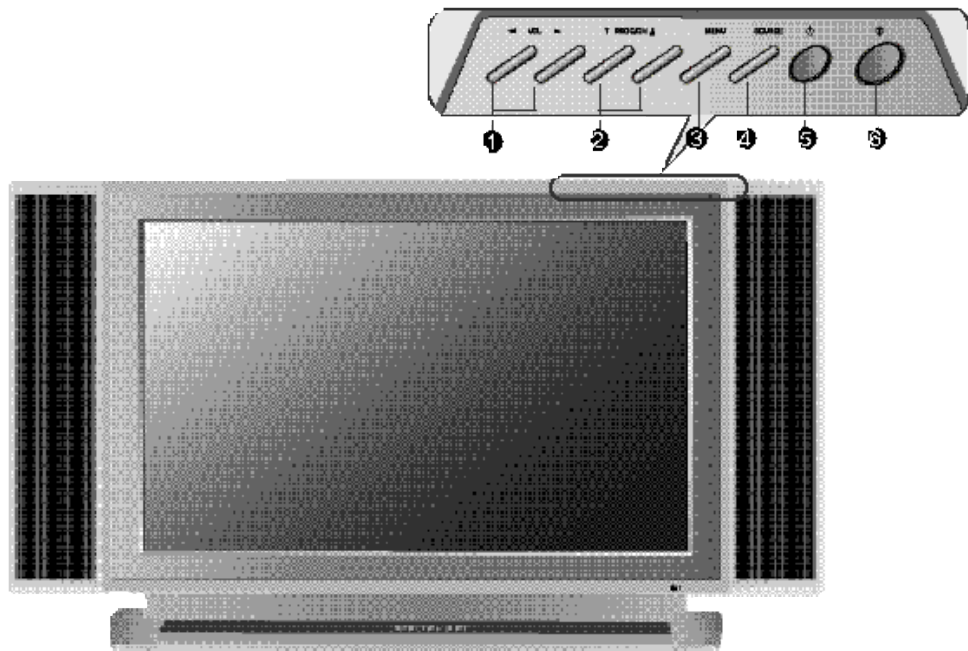


Features

- Picture-in-Picture : Enables you to simultaneously display two different image sources.
- PC Compatible Monitor : Enables you to connect PC (D-Sub) input for displaying high-resolution SXGA (1280x1024, 60Hz) PC images.
- HDTV-Ready Display : Enables you to view high-definition digital pictures using a DVD player or HDTV set-top receiver.
- Various Picture/Sound Controls : Enables you to set the picture and sound settings for a number of different types of programs and viewing and listening conditions.
- Auto Power On/Off Timer : Enables you to set the TV to automatically turn ON or OFF at a preset time.
- ATM : Enables you to set the TV to search for all available standard broadcast and cable TV channels and store them automatically.

Names of each part

Front View



❶ VOLUME Button : VOLUME -, + Button

❷ PROG/CH : PROGRAM/Channel -, + Button

❸ MENU Button : OSD MENU Display Button

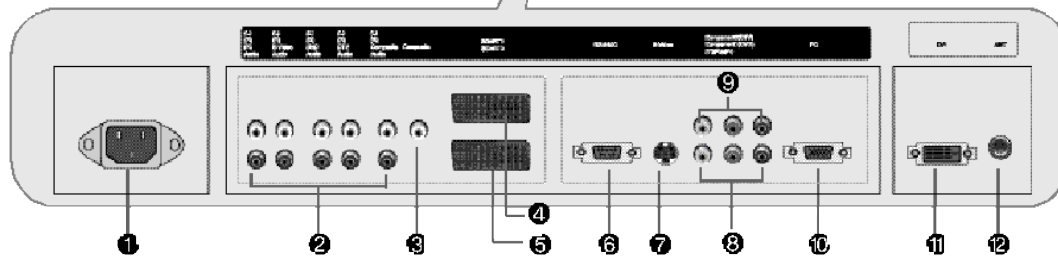
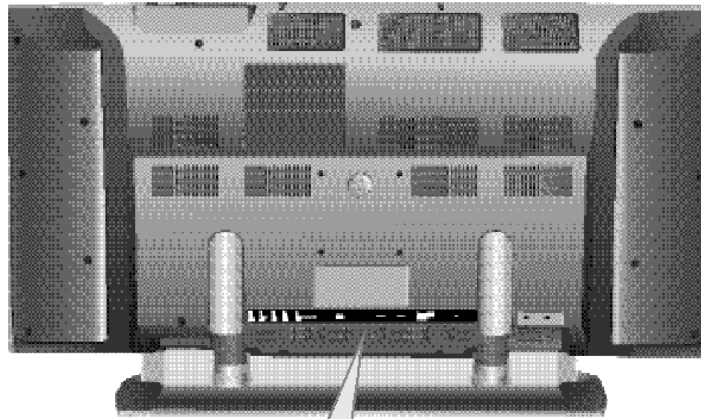
❹ Source select Button : TV, SCART 1, SCART 2, Composite, S-Video, Component 1 (DVD), Component 2 (DTV), Digital RGB, PC, Select Button

❺ Standby Button

❻ Main Power Button : Please turn off the main power switch, if the LCD TV will not be used for a long period of time

Controls and Functions

Back View



- | | |
|--|--------------------------------------|
| ❶ AC Input (AC 100-240V~, 50/60Hz, 2A) | ❷ S-Video Input |
| ❸ Audio Input (PC, S-Video, DVD, DTV, Composite) | ❸ Component 1 (DVD) Input 480i~576i |
| ❹ AV Input (Composite) | ❹ Component 2 (DTV) Input 480p~1080i |
| ❺ SCART 1 (Full SCART) | ❺ RGB PC Input [VGA~SXGA (60Hz)] |
| ❻ SCART 2 (Half SCART) | ❻ Digital RGB (DVI-D) |
| ❼ RS-232C | ❼ Antenna (RF) Input |

Accessories

- The configuration of the components may look different from the following illustration.



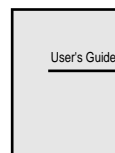
Antenna Cable



SCART Cable



Power Cord



User's Guide

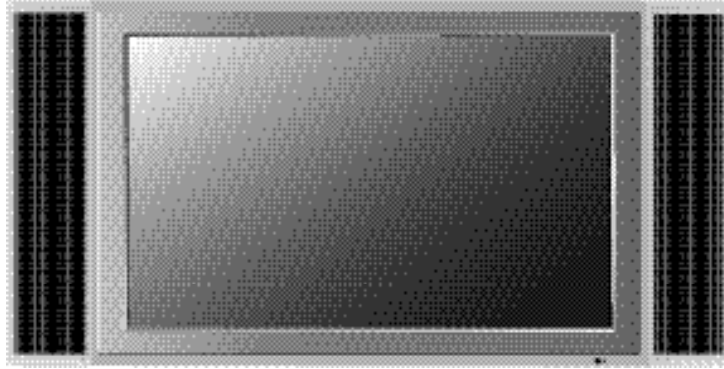


Remote Control



Battery (2) (AAA, 1.5V)

Mounting on a Wall



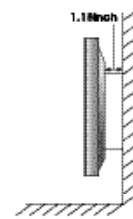
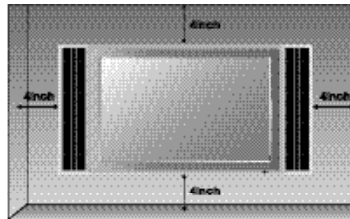
▶ Your LCD TV can be mounted on a wall as shown in the figure above.

Installation Precautions

Wall Mounting

- Please secure enough space for safe use. (Please refer to A and B.)
- Installation of the LCD TV in an improperly ventilated location can cause a fire or damage to the LCD TV due to increased temperature.

A →
(Mounting on a wall)

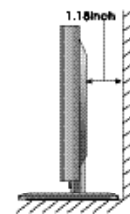
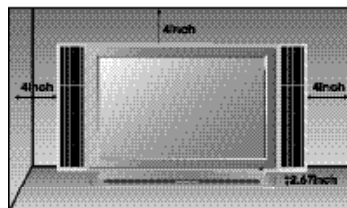


※ Contact your dealer to purchase the "Adjustable-angle wall mount" required for wall-mounted installation.

Using the Stand

- Do not install on an unstable location with support area smaller than the LCD TV.

B →
(Using the Stand)

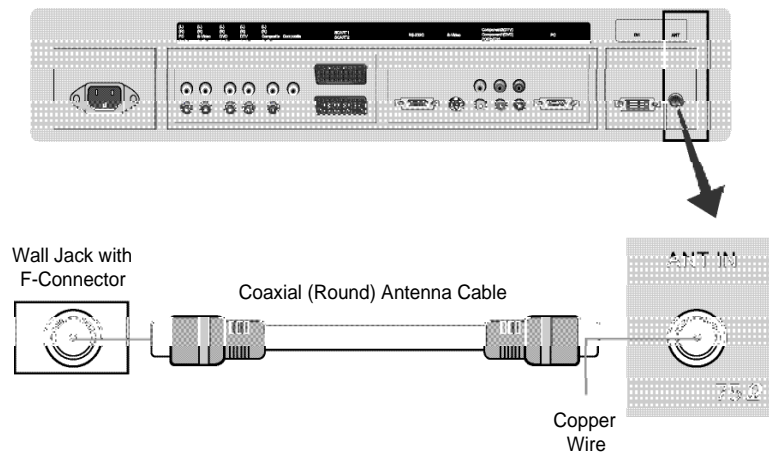


Installing an Antenna

For an Apartment or Condo Complex

- Using an Indoor Antenna

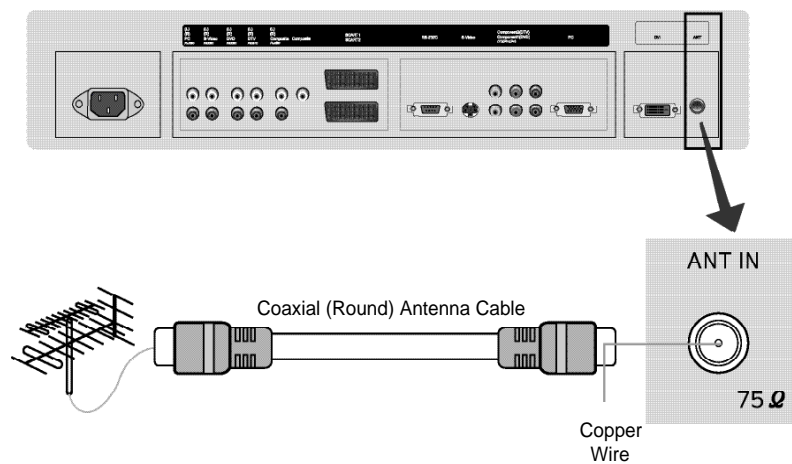
Locate a wall jack with an F-connector, and then connect the coaxial antenna cable to the wall jack.



For a House

- Using an Outdoor Antenna

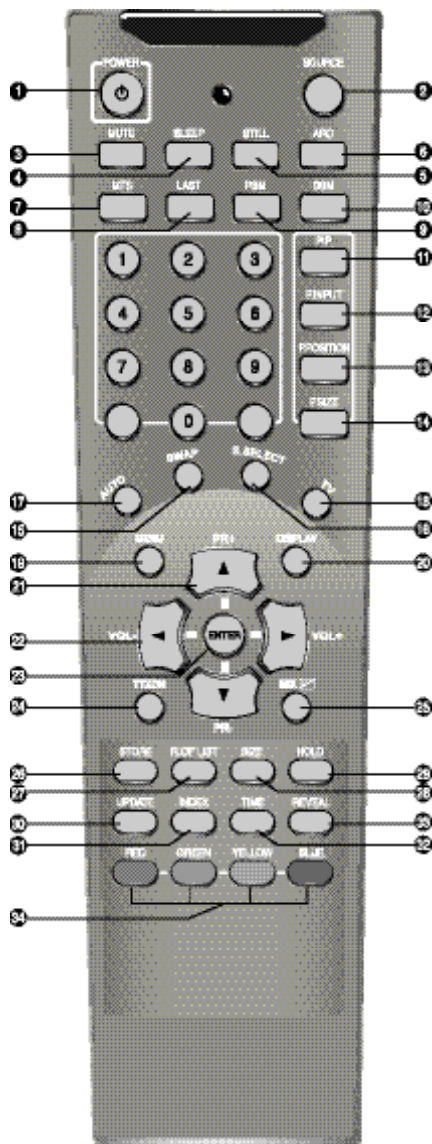
To install or use an outdoor antenna, if possible, consult a qualified technician for help.



Remote Controller

● Functions of remote control buttons

The remote control is using Infra-Red (IR). Point it towards the front of the LCD TV. The remote control may not work correctly if it is operated out of range or out of angle.




1. POWER : TURNS THE TV ON AND OFF (page.20)
2. SOURCE : USE TO SELECT AN INPUT SOURCE (page.22)
3. MUTE : PRESS TO TEMPORARILY CUT OFF THE SOUND (page.21)
4. SLEEP : PRESS TO SELECT A TIME FOR THE TV TO TURN OFF AUTOMATICALLY (page.39)
5. STILL : PRESS TO STOP THE ACTION DURING A PARTICULAR SCENE (page.33)
6. ARC (Aspect Ratio Control) : PRESS TO CHANGE THE SCREEN SIZE (page.29)
7. MTS (Multi-Television Sound) : PRESS TO SELECT MONO OR STEREO MODE (page.36)
8. LAST : TUNES TO THE PREVIOUS PROGRAM (page.21)
9. PSM : PICTURE STATUS MEMORY KEY (page.25)
(CUSTOM, DYNAMIC, STANDARD, MOVIE, MILD)
10. SSM : SOUND STATUS MEMORY KEY (page.26)
(CUSTOM, STANDARD, MUSIC, MOVIE, SPEECH)

◆ PIP CONTROL KEY (page 34, 35)

11. PIP : PIP ON/OFF
 12. P.INPUT : PIP INPUT SELECT KEY
 13. P.POSITION : PIP POSITION CONTROL KEY
 14. P.SIZE : PIP AND PBP MODE CHANGE
 15. SWAP : PIP SOURCE SWAP
 16. S.SELECT : SOUND SWAP KEY
17. AUTO (AUTO IN PROGRESS) : PRESS TO CONTROL THE MONITOR SCREEN AUTOMATICALLY
 18. TV : TV INPUT SOURCE SELECT KEY
 19. MENU : DISPLAYS THE MAIN ON-SCREEN MENU
 20. DISPLAY : PRESS TO DISPLAY THE CURRENT PROGRAM AND AUDIO/ VIDEO SETTINGS (page.21)
 21. ▲, ▼ (PR+, PR-) : PROGRAM, MENU CONTROL OR PAGE UP AND DOWN KEY, STAND BY ON
 22. ◀, ▶ (VOL-, VOL+) : PRESS TO INCREASE OR DECREASE THE VOLUME OR MENU CONTROL KEY
 23. ENTER : SAVE THE VALUE

◆ TELETEXT CONTROL KEY (page 40)

24. TTXON : TEXT ON KEY
25. MIX  : MIX WITH TV SCREEN
26. STORE : STORE THE USER DEFINED FAVORITE PAGE
27. FLOF LIST : EXCHANGE FLOF/LIST MODE
28. SIZE : TELE TEXT SCREEN SIZE KEY
29. HOLD : HOLD FUNCTION DURING TELETEXT DISPLAY
30. UPDATE : DISPLAY CANCEL OR TEXT UPDATE KEY
31. INDEX : TEXT INDEX KEY
32. TIME : SUBPAGE DISPLAY MODE KEY
33. REVEAL : SELECT HIDDEN CONTENT DURING TELETEXT DISPLAY
34. RED, GREEN, YELLOW, BLUE : DIRECT ACCESS TELETEXT LINKED PAGE KEY

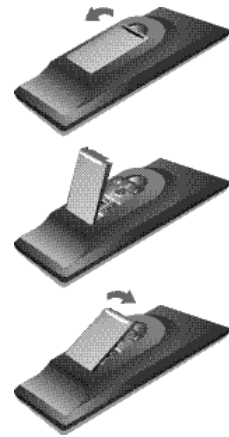
Precautions


Avoiding Remote Control Problems

1. Check the polarity (+,-) of the batteries in the remote controller.
2. Check that the batteries have power.
3. Check that the LCD TV is powered and that it is properly plugged in.
4. Check if any three-wavelength lamp, special fluorescent or neon sign is turned on near the LCD TV.

Instering Batteries in the Remote Controller

1. Open the cover out completely.
2. Insert the two supplied batteries (AAA, 1.5V). Ensure that the polarities (+ and -) of the batteries are aligned correctly.
3. Replay the cover.



 **CAUTION** : Risk of explosion if battery is replaced by an incorrect type.
Dispose of used batteries according to the national code (Recycling program).

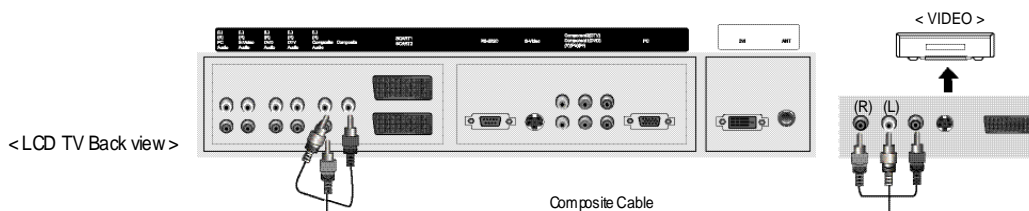
How to use remote controller

- The remote control should be operated within 23feet(7m) and 30° to the left and the right of the IR receiver on the front of the LCD TV.
- Used batteries should be disposed properly.

VCR Connections

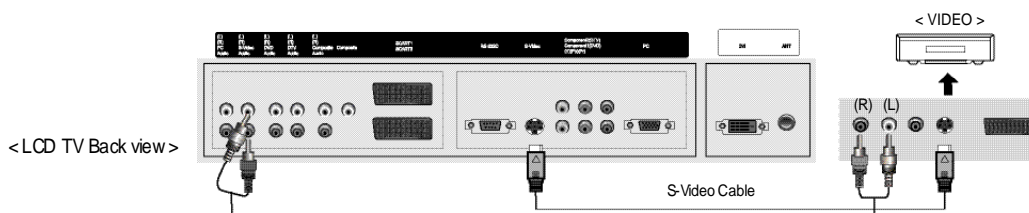
● Connecting to the composite terminal

※ Connection terminals of other appliances differ by manufacturer and model.



· Connect the LCD TV's Composite In terminal to the VCR's Composite Out terminal using the Composite cable.
(Make sure the color of the terminals and the color of the cable are the same)

● Connecting to the S-Video terminal



※ Use the S-Video cable for higher picture quality.


● Connecting to the SCART terminal



· Connect the SCART terminal of the LCD TV and the VCR with the SCART cable.

Playing the VCR

1. Turn on the LCD TV and press  on the remote controller.

2. Use  to move to "composite".

· If S-Video has been connected, select S-Video.

· If SCART terminal has been connected, select SCART1 or SCART2.

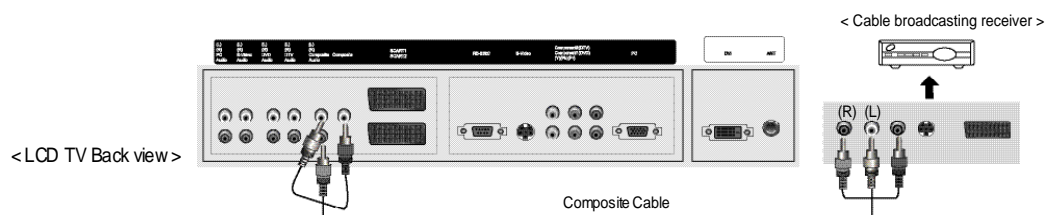
3. Turn on the VCR, insert the tape and press play button.

Connection

Cable TV Connections

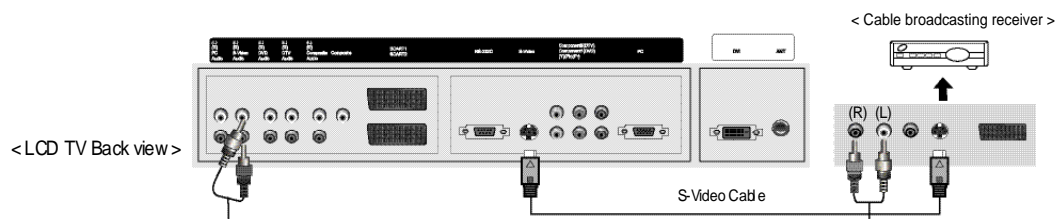
● Connecting to the composite terminal

- ※ In order to watch Cable TV, Subscribe to your local Cable TV company and install a separate converter (Set-Top-Box)
- ※ Connection terminals of other appliances differ by manufacturer and model.



- Connect the LCD TV's Composite In terminal to the cable broadcasting receiver Composite Out terminal using the Composite cable. (Make sure the color of the terminals and the color of cable are the same)

● Connecting to S-Video terminal





- ※ Use the S-Video cable for higher picture quality.

● Connecting to the SCART terminal



- Connect the SCART terminal of the LCD TV and the cable broadcasting receiver with the SCART cable

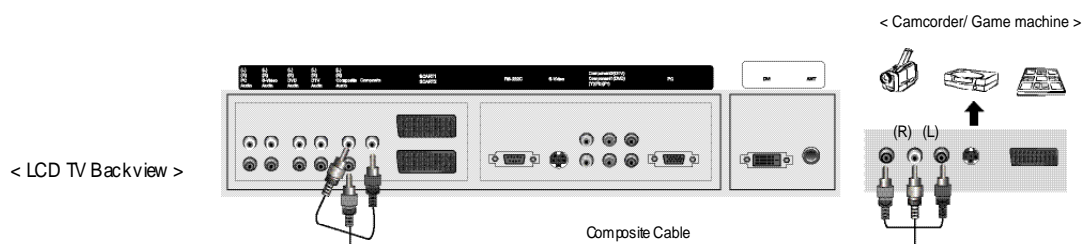
Viewing Cable TV

1. Turn on the LCD TV and press  on the remote controller.
2. Use  to move to "composite".
 - If S-Video has been connected, select S-Video.
 - If SCART terminal has been connected, select SCART1 or SCART2.
3. Turn on the cable broadcasting receiver and select the channel you wish to view.

Camcorder/Game Console Connections

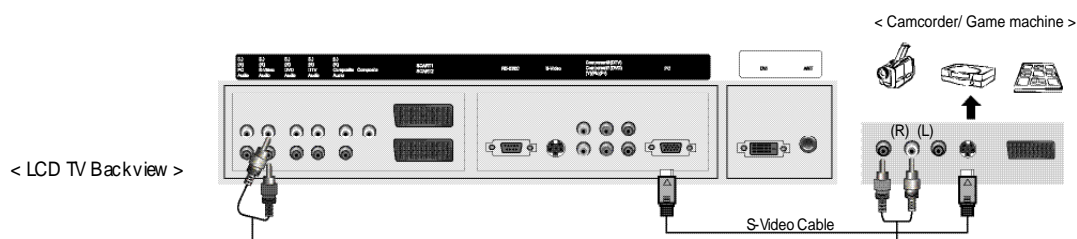
● Connecting to the composite terminal

※ Connection terminals of other appliances differ by manufacturer and model.





· Connect the LCD TV's Composite In terminal to the camcorder/game console's Composite Out terminal with the Composite cable. (Make sure the color of the terminals and the color of cable are the same)

● Connecting to S-Video terminal



※ S-Video cable can be used if there is an S-Video terminal.

Using Camcorder/Game Console

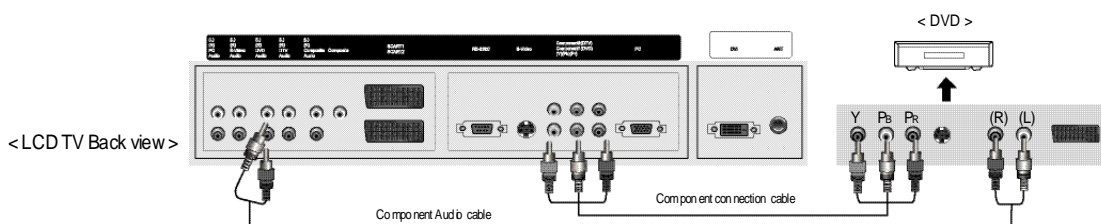
1. Turn on the LCD TV and press  on the remote controller.
2. Use  to move to "composite".
 - If S-Video has been connected, select S-Video.
3. Turn on the Camcorder or video game and Set to Video mode.
(Please refer to the User's manual of Camcorder/ Video game for more information)
4. Insert tape into Camcorder and press play button or insert disc into the Video game console.

Connection

DVD Connections

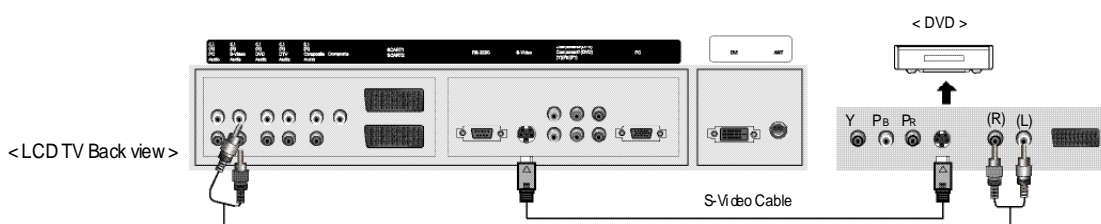
● Connecting to the component terminal

※ Connection terminals of other appliances differ by manufacturer and model.



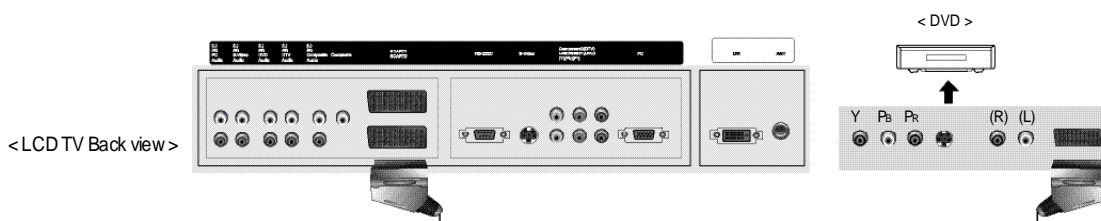
1. Connect LCD TV's Y, Pb, Pr terminal in component 1 to DVD's Video Out terminal using the external cable.
2. Connect LCD TV's Audio terminals (left & right) in component 1 to DVD's Audio Out terminal using the Audio cable.

● Connecting to the S-Video terminal





※ S-Video cable can be used if there is an S-Video terminal.

● Connecting to the SCART



· Connect the SCART terminal of the LCD TV and the DVD with the SCART cable.

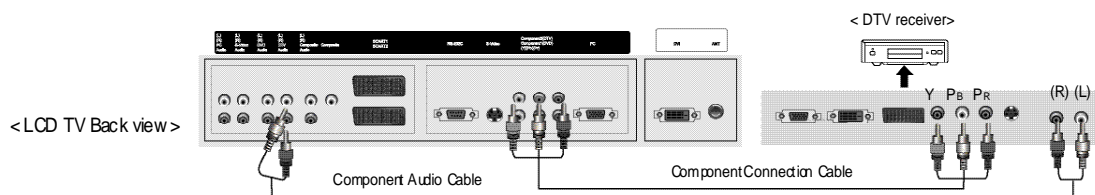
Playing the DVD

1. Turn on the LCD TV and press  on the remote controller.
2. Use  to move to "component1".
 - If S-Video has been connected, select S-Video
 - If SCART terminal has been connected, select SCART1 or SCART2.
3. Turn on the DVD, insert the DVD and press Play button.

DTV Connections

● Connecting to the component terminal

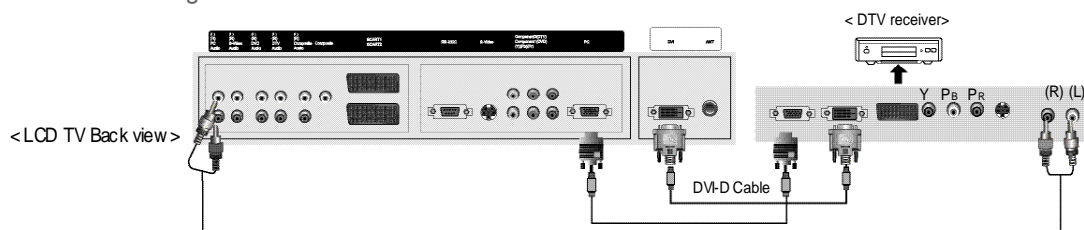
※ Connection terminals of other appliances differ by manufacturer and model.



1. Connect LCD TV's Y, Pb, Pr terminal in component 2 to DTV receiver's Video Out terminal using the external cable
2. Connect LCD TV's Sound terminals (left & right) in component 2 to DTV receiver's Audio Out terminal using the Audio cable

※ DTV receiver's output terminal can be marked Y, Pb, Pr or Y, Cb, Cr according to products.

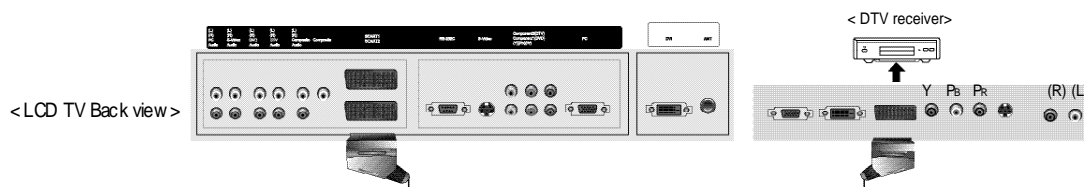
● Connecting to the PC terminal



- Some of DTV receiver(Set-Top-Box) have a PC Connector (D-Sub 15pin) instead of Component output .
- Connect Audio Cable from the Audio output terminal of receiver to the PC Audio input terminal of the LCD TV.

※ Use the DVI-D with HDCP connection for higher picture quality if there is DVI-D terminal.


● Connecting to the SCART terminal



- Connect the SCART terminal of the LCD TV and the DTV receiver with the SCART cable.

Viewing DTV

1. Turn on the LCD TV and press  on the remote controller.

2. Use  to move to "component2".

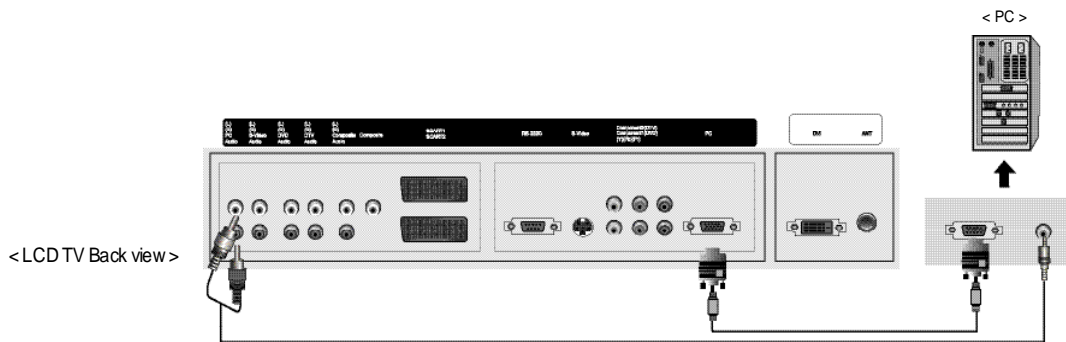
- If D-Sub 15 Pin terminal has been connected, select PC.
- If DVI-D has been connected, select DVI.
- If SCART terminal has been connected, select SCART1 or SCART2 .

3. Turn on the DTV receiver and select the channel that you want.

Connection



PC Connections

※ Connection terminals of other appliances differ by manufacturer and model.



- Connect LCD TV's RGB terminal to PC's RGB terminal using the D-Sub cable.
- Connect LCD TV's PC Audio terminal to PC's Audio terminal using the Audio cable.
(Only possible for PC's with Audio terminal)
- If there is a DVI-D terminal in your PC, use the DVI-D cable connection.


How to Use as PC

1. Turn on the LCD TV and press  on the remote controller.
2. Use  to move to "PC".
 - If DVI-D has been connected, select "DVI"
3. Set the PC video output mode to VGA (640×480)/ SVGA (800×600)/ XGA (1024×768), SXGA (1280×1024, 60Hz). In the mode higher than SXGA (1280×1024, 75Hz) "Out of Range" message appears. Be sure to change your PC video format to less than SXGA mode.

Powering the LCD TV


● Power on/ off


- To turn the LCD TV on :
Press the "Main Power" button of LCD TV and then press the "Standby" button.
- To turn the LCD TV off :
Press "Standby" button on the LCD TV and then press the "Main Power" button.
Turning the main power switch off will save energy. It is the same as unplugging the power cord.
If ON Time setting is set, the main power should be ON.
- To turn on/off by remote controller :
Press the Power button of remote controller (If the LCD TV is not turned on, check that the "Main Power" button on the LCD TV main body is turned on. The main power indicator will light up red if turned on).

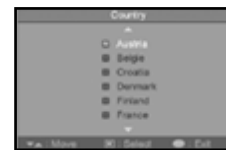
 CAUTION - After turning off the main Power, please wait at least more than 3 seconds to turn the main power back on.


Initial Settings


- When the brand new television set it tuned on for the first time, following settings can be set using the plug and play function of the TV.
- Press the "Main Power" button of LCD TV and then press the "Standby" button. You will see the Country mode selection menu.


Use  to move to the desired "Country".

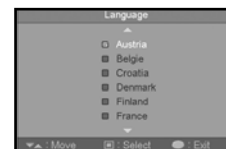
Press  to select.
Automatically "ATM" beginning.
After "ATM" ends, select the desired Language.



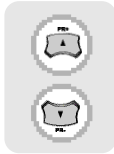
Use  to move to the desired "Language".

Press  to select.

Press  to go back to the previous menu.



● Program Selection



increases the program.

decreases the program.

● To go back to the previous program

Press



to go back to the program you were previously viewing.

● Volume Control



increases the volume.

decreases the volume.



● To turn off only sound

Use the mute function to turn off the LCD TV sound for a while, when a phone or a bell rings.

Press



button again to hear the sound again.



● INFO - To check the current state

Press



button on the remote control.

Display shows user's setting and selections.






Press



button or wait 10 seconds for the display to disappear.

Selecting Input Source






You can between the TV signal and the input signal of other appliances connected to the TV. Use this function to switch to the input source you wish to view.

- Press  button on the remote control.
-
- Use  to move to the desired item.
- Press  to select.










- ※ Aside from the watching TV, you can connect SCART1, SCART 2, Composite, S-Video, Component 1, Component 2, Digital RGB and PC to the TV set and enjoy these functions.
- ※ All input sources will be automatically detected and displayed on screen, but you may select an activated source when the input cable is connected only.

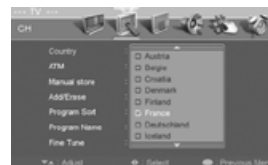
Using the Menu

- Press  . The menu screen will appear.
-
- Use  (left, right arrows) to move the cursor to the desired function.
- Press  to get into the sub menu.
- Press  to select.
- Press  to go back to the previous menu.



To Set Location

- Press  .
-
- Use  to move to  .
- Press  to move to "Country".
- Press  to select.
-
- Use  to select the desired country.
- Press  to go back to the previous menu.



· TV System Standard

PAL(Phase Alternative Line)

SECAM(Séquentia Couleur Amémoire)

L/SECAM : France

D.K/SECAM : Russia, Poland, Czechoslovakia, Hungary

I/PAL : United Kingdom, Hongkong

B.G/PAL : Germany ,Netherland, Switzerland, Italy, Austria, Yugoslavia

B/PAL : Australia, New Zealand, Singapore, Norway, India, Thailand, Indonesia, Malaysia


B/SECAM : Egypt, Iran, Iraq



D/PAL : China, north Korea


B.H/PAL : Belgium


Setting Programs


Use the Auto Search function to preset all programs that are being broadcast


Press  .


Use  to move to  .

Press  to move to "ATM".



Press  to select.

Use  to move to "Start".


Press  to select.



Press  to go back to the previous menu.


Press "Start" to start the automatic program search/set function
All broadcasting programs will be set.






To set or erase a Program


Press  .


Use  to move to  .


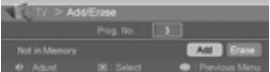
Press  to move to "Add/ Erase".

Press  to select.


Use  to move to "Add" or "Erase".

Press  to select.

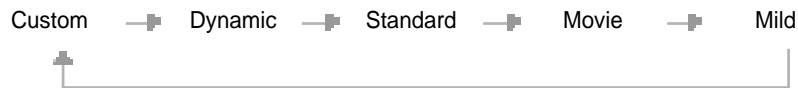
Press  to go back to the previous menu.

Changing Picture Settings

Press  button on the remote control .

Press the mode buttons on the shown on the screen repeatedly to adjust the settings.



- Custom : Select to set user's preferences.
- Dynamic : Select when using the LCD TV in a brightly lit environment.
- Standard : It is the best screen setting (factory setting).
- Movie : Select when watching a movie.
- Mild : Select when using the LCD TV in a dimly lit environment.


● Custom Picture Adjustment

Press



Use



to move to  .

Press



to move to "Custom Adjust".

Press



to select.



Use



to move to the desired category.

Use



to adjust the setting.

Use



select between Brightness/ Contrast/ Colour/Tint/ Sharpness.

Press



to go back to the previous menu.



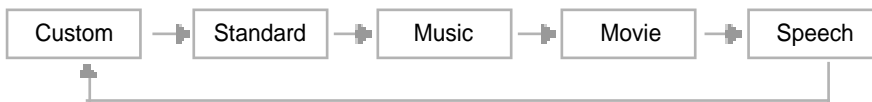
Custom Mode

- Brightness : It adjusts the brightness of the image.
- Contrast : It adjusts the contrast of image.
- Colour : It adjusts the intensity of the colour.
- Tint : It adjusts the natural tint of the image.
- Sharpness : It adjusts the clarity of the image.

Changing Sound Settings

Press  button on the remote control.


Press the mode buttons on the shown on the screen repeatedly to adjust the settings.




- Custom : Select when listening to the sound to user's preference.
- Standard : It is the flat sound setting with no equalizer effect at all.
- Music : It is preset for music listening.
- Movie : It is preset sound for watching a movie.
- Speech : It is preset for hearing vocal audio clearly.

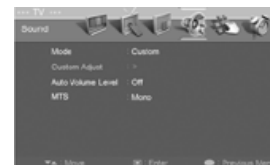
● Custom Sound Adjustment

Press  .


Use  to move to  .

Press  to move to "Custom Adjust".


Press  to select.



Use  to move to the desired category.

Use  to adjust the setting.



Press  to go back to the previous menu.












Custom Mode

- Volume : It adjusts the sound volume.
- Balance : It adjusts the volume of speakers on the left and the right.
- Equalizer : It adjusts the volume by frequency bands and the user can select the desired sound quality.








Selecting the Menu Language


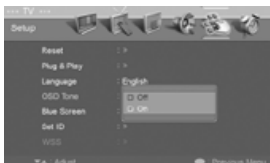
Menu screen can be viewed in the language preferred by the user.

Press		.	
Use		to move to	
Press		to move to "Language".	
Press		to select.	
Use		to select the desired language.	
Press		to go back to the previous menu.	


Setting OSD Tone Menu Background

Press		.	
Use		to move to	
Press		to move to "OSD Tone".	
Press		to select.	
Use		to select the "On".	
Press		to go back to the previous menu.	

Setting Blue Background

The LCD TV can be set to display blue screen when no TV signal or signal from other connected appliances are being received. If there is an incoming signal, the blue screen will be replaced by the normal picture screen.

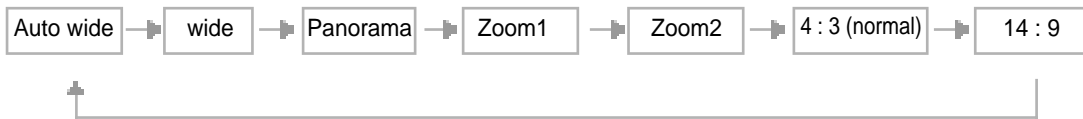
Press		.	
Use		to move to	
Press		to move to "Blue Screen".	
Press		to select.	
Use		to select the "On".	
Press		to go back to the previous menu.	

Changing Screen Size

Press

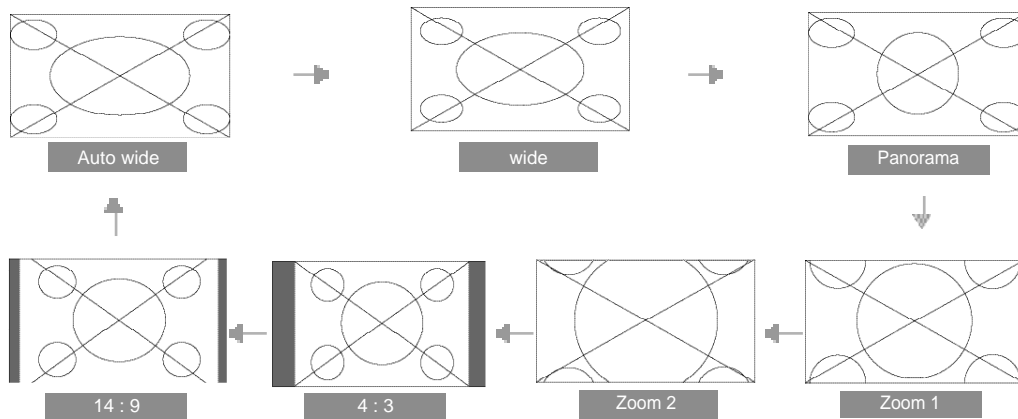


button on the remote control (aspect ratio controller).



In PC input mode, you can only select either the wide or the normal (4 : 3) mode.

In Component 2 input mode, you can't select, Auto wide and 14 : 9.






Screen Size


- Auto wide - It automatically displays for the screen format of input signal.
- wide - It makes 15 : 9 format for input signal.
- Panorama - It makes 4 : 3 format fit into 15 : 9 format with minimal loss in content.
- Zoom 1 - It enlarges the natural screen factor by approx. 5 %
- Zoom 2 - It enlarges the natural screen factor by approx. 10 %
- 4 : 3 - It is the standard format of broadcasting.
- 14 : 9 - It makes 14 : 9 format for input signal.


Changing the Screen Size for WSS Signal Input


When WSS signal is incoming from a connected external appliance, screen size can be changed to panorama or 4 : 3.


Press  .


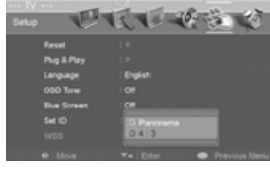
Use  to move to  .

Press  to move to "WSS" .

Press  to select.


Use  to select the Panorama or 4 : 3.



Press  to go back to the previous menu.






Changing the Program


Color system and sound system can be setup for each program.


Press  .


Use  to move to  .


Press  to move to "Manual Store" .




Press  to select.

Use  to move to the desired category.

Press  to select.

Use  to adjust the setting.











Press  to go back to the previous menu.

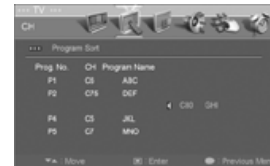




Select "Yes" in Manual Store to save the Program settings.

Sorting Program

In this mode, you can arrange programs in numerical order.

- Press  .
-
- Use  to move to  .
- Press  to move to "Program Sort".
- Press  to select.
-
- Use  to move to the desired Program Number.
- Press  to move to the next category.
-
- Use  to move to the Preferred Program Number.
- Press  to sort.
- Press  to go back to the previous menu.



Editing Program Name










Favorite programs can be stored to make it easier to find.

- Press  .
-
- Use  to move to  .
- Press  to move to "Program Name".
- Press  to select.
-
- Use  to move to the desired Program Number.
- Press  to move to program name.
-
- Use  to register program name.
- Press  to go back to the previous menu.





Adjusting Unclear Screen

Use screen fine-tune controls to adjust the screen when picture quality is unclear or lines appear.


- Press  .
-
- Use  to move to  .
- Press  to move to "Fine Tune".
- Press  to select.
-
- Use  to tune.
-
- Press  to go back to the previous menu.
-
- To return to initial setting, use  to select "Reset" and press  .




To view the still picture

- Press  button on the remote control.
- Picture will freeze, but sound will continue to be heard.
- Press  again to cancel.


Viewing Picture in Picture

Press  .
 Use  to move to  .

Press  to move to "Mode".

Press  to select.

Use  to select the "On".

Press  to go back to the previous menu.

Or press  button on the remote control.


Sound from only one of the screens may be heard.




● TV/External Input

Press  to move to "Source".

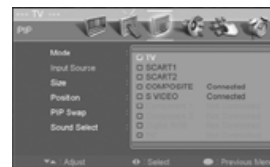
Press  to select.

Use  to select the desired input source.

Press  to go back to the previous menu.

Or press  button on the remote control.


The sub-screen can be changed to display picture from the desired input source.




● Changing the Screen Size

Press  to move to "Size".

Press  to select.

Use  to select the desired size.






Press  to go back to the previous menu.


Or press  button on the remote control.



Viewing Picture in Picture






● Selecting Position

- Press  to move to "Position".
- Press  to select.
- Use  to select the desired position.
- Press  to go back to the previous menu.
- Or press  button on the remote control.

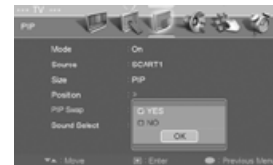
Sub-screen position can be selected only from the .








● Main Screen/Sub Screen Swap

- Press  to move to "PIP Swap".
- Press  to select.
- Use  to select the "YES".
- Press  to go back to the previous menu.
- Or press  button on the remote control.

The main screen and the sub screen will swap.










● Selecting Sub Screen Sound

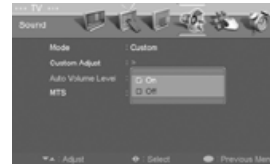
- Press  to move to "Sound Select".
- Press  to select.
- Use  to select the "Main" or "Sub".
- Press  to go back to the previous menu.
- Or press  button on the remote control.











Auto Volume Level

This feature maintains an equal Volume level even if you change programs.

- Press  .
-
- Use  to move to  .
- Press  to move to "Auto Volume Level".
- Press  to select.
-
- Use  to select the "On".
- Press  to go back to the previous menu.



Stereo Settings

- Press  .
-
- Use  to move to  .
- Press  to move to "MTS".
- Press  to select.
-
- Use  to select the desired category.
- Press  to go back to the previous menu.
- Or press  button on the remote control (Multi Television Sound).



Resetting LCD TV Setting

It resets all of the parameters to the factory default.

Press		.	
Use		to move to	
Press		to move to "Reset".	
Press		to select.	
Use		to select the "YES".	
Press		to select	




※ The LCD TV will turn off. The parameters will be set to factory default.

Setting Time

Press



Use



to move to



Press



to move to "Clock".



Press



to move one step.

Use



to adjust the desired hour.



Press

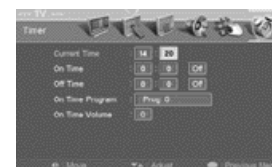


to move one step.

Use



to adjust the desired minute.




Press






to go back to the previous menu.


Automatic Power On/Off

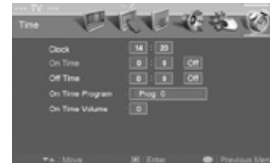
- Clock time must be set


Press  .

Use  to move to  .


Press  to move to desired category.

Press  to select.



	Setting Time for Power On	Setting Time for Power Off
Setting Hour Use  to select,  to set		
Setting Minute Use  to select,  to set		
Set/Cancel Use  to select,  to select the "On" or "Off"		
Channel Select Use  to set program.		
Volume Control Use  to set volume.		

- To have the TV turn off after you fall a sleep

press  button on the remote control.

It automatically turns off the TV after a designated period of time

Depending on the number of times the "Sleep" button is pressed, the TV will be turned off after 30, 60, 90, 120, 150 or 180 minutes.

Teletext

Basic Function

■ TEXT On/Off

1. Press "TTXON" once , then displays the Teletext pages.
2. If you press "TTXON" once more, Text mode is off.

■ TOP TEXT

The user guide displays four fields-red, green, yellow and blue at the bottom of the screen. The yellow field denotes the next group and the blue field indicates the next block.

- Group/Block/Page selection

1. With the blue button you can progress block to block.
2. Use the Yellow button to proceed to the next group with automatic overflow to the next block.
3. With the Green button you can proceed to the next existing page with automatic overflow to the next group.
4. The RED button permits to return to previous selection.


■ FLOF TEXT

The teletext pages are colour coded along the bottom of the screen and are selected by pressing the corresponding coloured button.

- Page selection

1. Press the Index button to select the index page.
2. You can select the pages, which are colour coded along the bottom line with the same coloured buttons.

Special Teletext Function key

■ MIX : In the mix mode display, the underlying video and the teletext page display are both simultaneously visible on the screen. This command turns the display to mix mode and is enabled only in the text mode.

■ STORE : This command stores the user defined favorite pages. This command is enabled only if the list mode is active.

■ FLOF LIST : This command toggles between list mode and current. Text mode(FLOF, TOP or normal)

■ SIZE : Toggle the display page size between double-size top, double-size bottom and normal.

■ HOLD : The update of the current display page is halted so that the content will not be changed.


■ UPDATE : Press this button to view the updated teletext page or display cancel.

■ INDEX : Return to the index page.

■ TIME : In TV mode this command makes clock display at right-top corner.
In TEXT mode if this command is given the sub page mode is activated.

■ REVEAL : Press this button to display the concealed information. Such as solutions of riddles or puzzles.
RED, GREEN, YELLOW, BLUE-In the TOP/FLOF automatic navigation mode, these keys select and display the linked page.

Using TV as a Monitor

Press  button on the remote control.

Use  to move to "PC".

Press  to select.



PC Mode must be on in order for you to use the TV as a monitor.
If there is a DVI-D terminal in your PC, use the DVI-D cable connection.

Adjusting PC Screen


Press  .

Use  to move to  .


Press  to move to "PC".

Press  to select.



Use  to move to desired category.

Use  to adjust the setting.

Press  to go back to the previous menu.



In DVI Input mode, you can only select the "Color Tone".

- Auto Adjustment
- Phase : It adjusts the phase shift of the image. Use when image appears blurry or out of focus.
- H-Position : It moves the image on the screen horizontally.
- V-Position : It moves the image on the screen vertically.


Adjusting Colour Temp

Press



Use



to move to .

Press



to move to "PC".

Press



to select.



Use



to move to "Colour Temp".

Press



to select.



Use



to select the desired category.

Press



to go back to the previous menu.



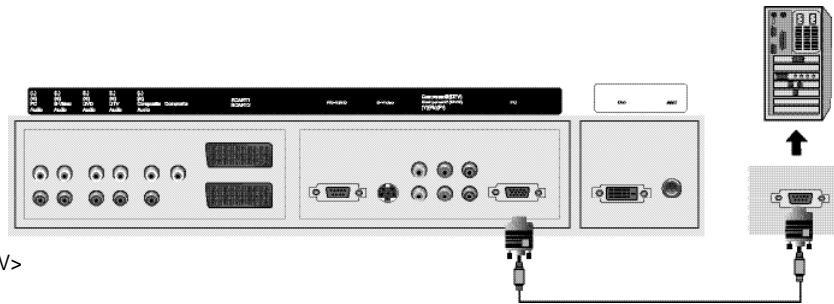
- Cool 1: This results in a blueish tone.
- Cool 2: This results in a more blueish tone.
- Normal : This is standard colour setting.
- Warm1 : This results in a reddish tone.
- Warm2 : This results in a more reddish tone.

External adjustment

External adjustment

· Use the RS-232C jack to control monitor's functions externally by external equipment.

- How connect a external equipment






<Back view of the LCD TV>


⚠ Caution : Regular customer does not allow using the external adjustment that is used for service purpose only.


Set ID


Use this function to choose monitor ID number.


Press  .



Use  to move to  .

Press  to move to "Set ID".

Press  to select.

Use  to select the desired ID number.

Press  to go back to the previous menu.



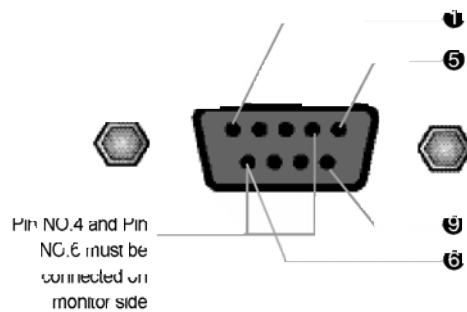
The adjustment range of Set ID is 0 ~ 254.

External adjustment

Special features

Type of connector : D-Sub 9-pin male

No.	Pin name
1	No connection
2	RXD (Receive data)
3	TXD (Transmit data)
4	DTR (DTE side ready)
5	GND
6	DSR (Dce side ready)
7	RTS (Ready to send)
8	CTS (Clear to send)
9	No Connection

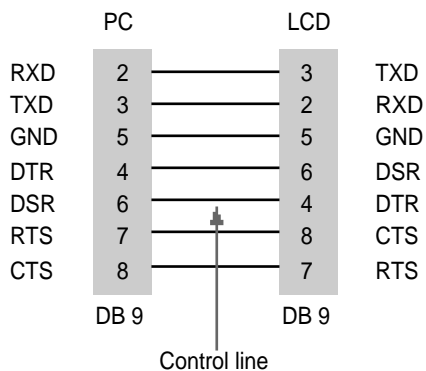


· Use a crossed (reverse) cable.

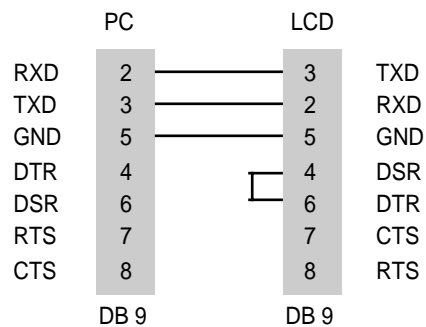
Wire the cable so that each pair of data lines cross between the two devices. These data line pairs are RXD (Receive to send) and TXD (Transmit data), DTR (DTE side ready) and DSR (DCE side ready), and RTS (Ready to send) and CTS (Clear to send).

RS-232C configurations

· 7-wire configuration



· 3-wire configuration



External adjustment

RS-232C Communication Protocol

COMMUNICATION PARAMETERS

BAUD RATE : 9600 bps

Data Length : 8bits

Parity : None

Stop bit : 1bit

Command List

Item	ASCII Code	Data(hex)
1. Power	p	00h~01h
2. Input Source	i	00h~07h
3. Aspect Ratio	r	00h~08h
4. Volume Mute	w	00h~01h
5. Volume Control	v	00h~64h
6. Screen Mode	s	00h~04h
7. Brightness	b	00h~64h
8. Contrast	k	00h~64h
9. Colour	c	00h~64h
10. Tint	t	00h~64h

Item	ASCII Code	Data(hex)
11. Sharpness	h	00h~64h
12. Information	f	00h~01h
13. Pip On	o	00h~01h
14. Pip Source	u	00h~07h
15. Pip Location	n	00h~03h
16. Pip Sound set	e	00h~01h
17. Pip Mode	d	00h~02h
18. Remote Control On	j	00h~01h
19. Prog -,+	a	00h~01h
20. Abnormal State	q	00h~01h
21. Sound Mode	y	00h~04h

Transmission / Receiving Protocol List

* Transmission

{Command}{ }{SET ID}{ }{Data}{Cr}
 {Commad} To Control Code LCD TV
 { } "Space , ASCII Code = 0x20"
 {SET ID} You Can Adjust SET ID Setup
 Menu of LCD TV
 {Data} Data Command
 Transmit 'FF' data to data
 read mode
 {Cr} Carriage Return
 ASCII Code 0x0d

* Ok Acknowledge

{SET ID}{:}{OK}{x}{Data}{x}
 The LCD TV set transmits ASCII based on this format When receiving normal data. At this time, If the data is data read mode, it indicates present status data if the data is data write mode, it returns the data of PC.

* In case set ID is 0, Ack data doesn't feed back, and you can adjust all LCD set.

RS-232C Communication Protocol

Commands

1. Power : p

▶ To Control Power On/Off of the LCD TV

* Transmission

```
{p}{SET ID}{Data}{Cr}
```

Data 0 : Off

Data 1 : On

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : Off

Data 1 : On

▶ Read Power On Source Status

* Transmission

```
{p}{SET ID}{FF}{Cr}
```

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : Power Off

Data 1 : Power On TV

Data 2 : Power On Scart1

Data 3 : Power On Scart2

Data 4 : Power On Composite

Data 5 : Power On S-Video

Data 6 : Power On Component1

Data 7 : Power On Component2

Data 8 : Power On PC(RGB)

※ If Other Functions Transmit 0xFF data based on this format, Ack data feeds back present status about each function.

2. Input Source : i

▶ To Input Source Select

* Transmission

```
{i}{SET ID}{Data}{Cr}
```

Data 0 : TV

Data 1 : Scart1

Data 2 : Scart2

Data 3 : Composite

Data 4 : S-Video

Data 5 : Component1

Data 6 : Component2

Data 7 : PC(RGB)

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : TV

Data 1 : Scart1

Data 2 : Scart2

Data 3 : Composite

Data 4 : S-Video

Data 5 : Component1

Data 6 : Component2

Data 7 : PC(RGB)

3. Aspect Ratio : r

▶ To adjust screen format

* Transmission

```
{r}{SET ID}{Data}{Cr}
```

Data 0 : Auto Wide

Data 1 : Wide

Data 2 : Panorama

Data 3 : Zoom1

Data 4 : Zoom2

Data 5 : 4:3

Data 6 : 14:9

Data 7 : 4:3(In PC Mode)

Data 8 : Wide(In PC Mode)

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : Auto Wide

Data 1 : Wide

Data 2 : Panorama

Data 3 : Zoom1

Data 4 : Zoom2

Data 5 : 4:3

Data 6 : 14:9

Data 7 : 4:3(In PC Mode)

Data 8 : Wide(In PC Mode)

RS-232C Communication Protocol

4. Volume Mute : w

- ▶ To Select volume mute on/off

* Transmission

```
{w}{ }{SET ID}{ }{Data}{Cr}
```

Data 0 : On

Data 1 : Off

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : On

Data 1 : Off

5. Volume Control : v

- ▶ To adjust volume

* Transmission

```
{v}{ }{SET ID}{ }{Data}{Cr}
```

Data : Min : 00h~Max : 64h

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data : Min : 00h~Max : 64h

6. Screen Mode : s

- ▶ To Select Screen Mode

* Transmission

```
{s}{ }{SET ID}{ }{Data}{Cr}
```

Data 0 : Custom

Data 1 : Dynamic (In PC Mode : High)

Data 2 : Standard (In PC Mode : Middle)

Data 3 : Movie (In PC Mode : Low)

Data 4 : Mild

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : Custom

Data 1 : Dynamic (In PC Mode : High)

Data 2 : Standard (In PC Mode : Middle)

Data 3 : Movie (In PC Mode : Low)

Data 4 : Mild

7. Brightness : b

- ▶ To adjust Brightness

* Transmission

```
{b}{ }{SET ID}{ }{Data}{Cr}
```

Data : Min : 00h~Max : 64h

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data : Min : 00h~Max : 64h

8. Contrast : k

- ▶ To adjust Contrast

* Transmission

```
{k}{ }{SET ID}{ }{Data}{Cr}
```

Data : Min : 00h~Max : 64h

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data : Min : 00h~Max : 64h

9. Colour : c

- ▶ To adjust Colour (Not available in PC Mode)

* Transmission

```
{c}{ }{SET ID}{ }{Data}{Cr}
```

Data : Min : 00h~Max : 64h

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data : Min : 00h~Max : 64h

10. Tint : t

- ▶ To adjust Tint (Not available in PC Mode)

* Transmission

```
{t}{ }{SET ID}{ }{Data}{Cr}
```

Data : Min : 00h~Max : 64h

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data : Min : 00h~Max : 64h

RS-232C Communication Protocol

Commands

11. Sharpness : h

- ▶ To adjust Sharpness

* Transmission

```
{h}{SET ID}{Data}{Cr}
```

Data : Min : 00h~Max : 64h

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data : Min : 00h~Max : 64h

12. Information : f

- ▶ Information on/off

* Transmission

```
{f}{SET ID}{Data}{Cr}
```

Data 0 : On

Data 1 : Off

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : On

Data 1 : Off

13. Pip On : o

- ▶ Pip on/off

* Transmission

```
{o}{SET ID}{Data}{Cr}
```

Data 0 : On

Data 1 : Off

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : On

Data 1 : Off

14. Pip Source: u

- ▶ To Select Pip Source [Not available]
(only adjustable when pip mode is activated.)

* Transmission

```
{u}{SET ID}{Data}{Cr}
```

Data 0 : TV

Data 1 : Scart1

Data 2 : Scart2

Data 3 : Composite

Data 4 : S-Video

Data 5 : Component1

Data 6 : Component2

Data 7 : PC(RGB)

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : TV

Data 1 : Scart1

Data 2 : Scart2

Data 3 : Composite

Data 4 : S-Video

Data 5 : Component1

Data 6 : Component2

Data 7 : PC(RGB)

15. Pip Location : n

- ▶ To Select Pip Position
(only adjustable when pip mode is activated.)

* Transmission

```
{n}{SET ID}{Data}{Cr}
```

Data 0 : Right Bottom

Data 1 : Right Top

Data 2 : Left Top

Data 3 : Left Bottom

* Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

Data 0 : Right Bottom

Data 1 : Right Top

Data 2 : Left Top

Data 3 : Left Bottom

RS-232C Communication Protocol

16. Pip Sound Set : e

- ▶ To Select Pip Sound
(only adjustable when pip mode is activated.)
- * Transmission

```
{e}{SET ID}{Data}{Cr}
```

 - Data 0 : Main
 - Data 1 : Sub
- * Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

 - Data 0 : Main
 - Data 1 : Sub

17. Pip Mode : d

- ▶ To Select Pip Mode
(only adjustable when pip mode is activated.)
- * Transmission

```
{d}{SET ID}{Data}{Cr}
```

 - Data 0 : PIP
 - Data 1 : PBP1
 - Data 2 : PBP2
- * Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

 - Data 0 : PIP
 - Data 1 : PBP1
 - Data 2 : PBP2

18. Remote Control On : j

- ▶ To Select Remote Control on/off
- * Transmission

```
{j}{SET ID}{Data}{Cr}
```

 - Data 0 : Pc Control
 - Data 1 : Remote Controller On
- * Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

 - Data 0 : Pc Control
 - Data 1 : Remote Controller On

19. Prog -, + : a

- ▶ To Adjust Program Number
- * Transmission

```
{a}{SET ID}{Data}{Cr}
```

 - Data 0 : Decrement Program Number
 - Data 1 : Increment Program Number
- * Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

 - Data 0 : Decrement Program Number
 - Data 1 : Increment Program Number

20. Abnormal Status : q

- ▶ You Can Read LCD TV Status
- * Read Only Mode
- * Transmission

```
{q}{SET ID}{FF}{Cr}
```
- * Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

 - Data 0 : OK
 - Data 1 : Standby
 - Data 2 : AC Downr

21. Sound Mode : y

- ▶ To Select Sound Mode
- * Transmission

```
{s}{SET ID}{Data}{Cr}
```

 - Data 0 : Custom
 - Data 1 : Standard
 - Data 2 : Music
 - Data 3 : Movie
 - Data 4 : Speech
- * Ack

```
{SET ID}{:}{OK}{x}{Data}{x}
```

 - Data 0 : Custom
 - Data 1 : Standard
 - Data 2 : Music
 - Data 3 : Movie
 - Data 4 : Speech

Trouble shooting Tips

- ※ Do not use other functions that are mentioned on this user's manual. It will be main reason of a faulty and motion error.
 In case a problem occurs with your LCD TV, please take the following steps first.
 If you still have the problem, turn the power off and contact your dealer or an authorized service center.

● Screen related Matters

Problem	Action
The screen does not appear.	Is the power plug pulled out? Insert the power plug. Turn the main power button on and press the power button of the remote controller.
The screen appears too slowly after the power is turned on.	This problem occurs for a brief time in the process of image elimination processing in order to hide temporary screen noise that occurs when the power is turned on. But if the screen does not come after 1 minute has passed, contact your dealer or an authorized service center.
Screen is too bright or too dark.	Perform brightness adjustment or Contrast adjustment. (Please refer to page 25)
Screen is too large or too small.	Adjust the screen size. (Please refer to page 29)
Stripes appear on the screen and it shakes.	Stop using wireless telephones, hair driers and electric drills.
Simultaneous Screen does not appear.	Check that LCD TV and external equipment are connected. Check the inputs of simultaneous screen by pressing sub-screen selection.
The screen does not move.	Press the "STILL" button. (Please refer to page 33) Check if the Pause button is pressed on external equipment
Computer Input Screen is abnormal.	Perform manual fine adjustment (Please refer to page 41).
Automatic Turn On does not work.	Automatic Turn On function works only when turning the LCD TV off with the remote controller or Standby button.

● Sound related Matters

Problem	Action
Screen appears, Voice is not heard	<ol style="list-style-type: none"> 1. Press the "Mute" button. (page 21) 2. Increase the sound by pressing volume adjustment button. 3. Check if voice terminal of external input is connected properly. 4. Check if audio cables are connected properly. 5. If it is on PIP mode, convert audio of main screen and sub-screen by pressing S.SELECT. 6. Select and check the other input. If the sound still does not work and the other channels are the same after you have done as the above, contact your dealer or an authorized service center.
Lots of noise (static) occurs.	When connecting a Set-Top-Box, check that it is on stereo broadcasting. If it is, the TV program may not be available or the reception may be bad. Check the audio source with another player. If that source is good, contact your dealer or an Authorized service center.

Trouble shooting Tips

● Others

Problem	Action
Remote controller does not work.	<ol style="list-style-type: none"> 1. Check if main power is On. 2. Check that the batteries of the remote controller were loaded properly. 3. Check to see if any obstacle exists between the LCD TV and the remote controller and remove it, if any. 4. If the batteries have no power, replace them with two new batteries.
LCD TV makes strange noise.	It is the noise when the mechanism expands or contracts from to changes to the environment due to factors such as humidity, temperature, etc. It is not a failure.
LCD TV indication lamp is On.	The red means the Stand-by power is ON. It will take a few seconds to turn off as the main power is off.

This LCD TV is for household use and registered as suitable on electromagnetic waves. Therefore, you can use it in every location as well as residential areas.

● Supporting display mode

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
640 × 480	31.47	60
	37.86	72
	37.50	75
720 × 400	31.47	70
800 × 600	35.15	56
	37.88	60
	48.88	72
	46.88	75
1024 × 768	48.36	60
	56.48	70
	60.02	75
1280 × 1024	64.0	60

● Considerations in Installation

If any signal of unsupported resolution is input, the "Out of Range" message appears.

Supported Display Modes

● Component Mode [Y, C_B(P_B), C_R(P_R)]

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	
720 × 480	15.73	60.00	SDTV, DVD 480i
720 × 576	15.63	50.00	SDTV, DVD 576i
720 × 480	31.47	59.94	SDTV, 480p
1280 × 720	45.00	60.00	HDTV, 720p
1280 × 720	44.96	59.94	HDTV, 720p
1920 × 1080	33.75	60.00	HDTV, 1080i
1920 × 1080	33.72	59.94	HDTV, 1080i

● Specifications

Aspect Ratio	15 : 9
Screen Size (H × V)	643.2mm × 385.92mm
Resolution	1280 × 768(Wide XGA)
Pixel pitch	0.1675mm × RGB × 0.5025mm
Displayable Colors	16.7M
Brightness	550cd/m ² (Typical)
Contrast	600:1
Color Temperature	9500 °K
Viewing Angle	85° / 85° / 85° / 85°
Input signal	PAL, SECAM, SD, HD VGA~SXGA
Tuner	PAL, SECAM
RGB Input	D-Sub (15pin)
AC Input	AC100-240V~, 50/60Hz, 2A
Power Consumption	150W
Dimensions/ Weight (H × V × W) (Kg)	TV Only - 933 × 479 × 104/ 15.3Kg with stand - 933 × 526 × 215/ 18.4Kg

The outside design and specification can be modified without any previous notice for improving the performance.

D I G I T A L A R T