



LCD TV

OWNER'S MANUAL



Please read this manual carefully before operating your set.
Retain it for future reference.
Record model number and serial number of the set
See the label attached on the backcover and quote
this information to your dealer
when you require service.



Warning



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 products 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.

REGULATORY INFORMATION

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 communication. 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 encouraged to try to correct the interference by one or more of the following measures:

- 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 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.

CAUTION:

DO not attempt to modify this product in any way without written authorization from supplier. Unauthorized modification could void the user's authority to operate this product.

Safety instructions

WARNING :

TO Reduce The Risk Of Fire Or Electric Shock, Do Not Expose This Apparatus To Rain Or Moisture.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.



2. Keep these instructions.

3. Heed all warnings.

4. Follow all instructions.

5. Do not use this apparatus near water.

You may place the TV in a cabinet, but ensure at 10cm least clearance all around.



6. Clean only with a dry cloth.



7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.



8. Do not install near any heat source such as radiators, heat registers, stoves, or other apparatus(including amplifiers)that produce heat.



9. Do not defeat the safety purpose of the polarized or grounding type plug. A polarized plug has two blades with one wider than other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus. Disconnect device shall remain readily operable



11. Only use the attachments / accessories specified by the manufacturer.

Safety instructions continued

12. Use only cart, stand, tripod, bracket, or table specified by the manufacturer or sold with the apparatus.



13. Unplug this apparatus during lightning storms or when unused for a long time.



14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way.



15. This product must operate according to the power source indicated on the operation manual(page7). Product feature: AC100~240V
If you are not sure of the type of power supply used in your home, consult your dealer or local electric company. Disconnection device shall remain readily operable.

16. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

Note

- If the TV is cold, there may be a small "flicker" when you turn it on.
- Avoid touching the LCD screen or holding your finger(s) against it.

CAUTION connecting the Power Cord

Do not overload wall outlets. Overloaded wall outlets could damage the TV and could result to electric shock or fire. Periodically examine the cord of your appliance; if its appearance indicates damage or deterioration, unplug it. Stop using it until you have it replaced with a cord authorized by your dealer. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked or pinched.

On Disposal

- The fluorescent lamp used in this product contains a small amount of mercury
- Disposal of this product must be carried out in accordance to the regulations of your local authority.

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TV Operation

Basic operation

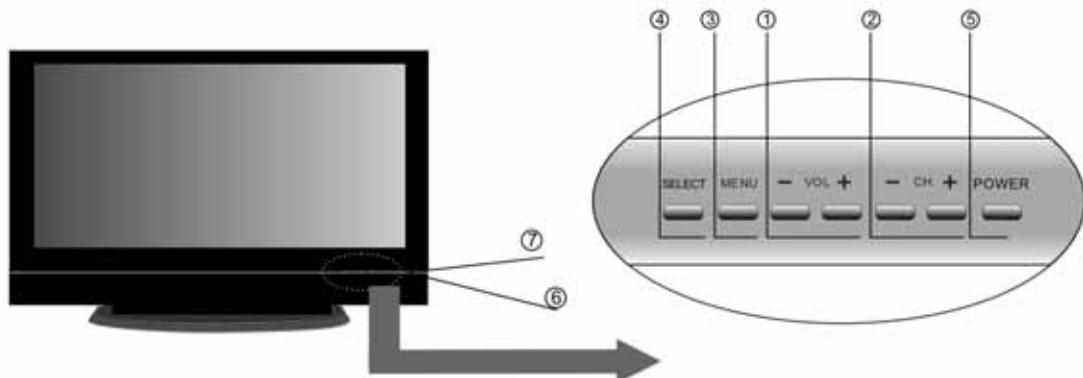
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Introduction Controls

- This is a simplified representation of front panel.



ITEM	KEY NAME	FUNCTION DESCRIPTION
1	- VOLUME +	Press to increase or decrease the sound level.
2	- CHANNEL +	Press to switch channels or to scan through channels. To scan channels, press and hold down either +/-button.
3	MENU	Press to display main menu.
4	SELECT	Press to select the input source.
5	POWER	Switch on or off the TV completely.
6	POWER INDICATOR	Red in standby mode and green when TV is switched on.
7	REMOTE SENSOR	Infrared sensor for the remote control.
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Accessories

Ensure that the following accessories are included with your TV. If any accessory is missing, please contact the dealer from where you purchased the product.



Power Cord



Remote control

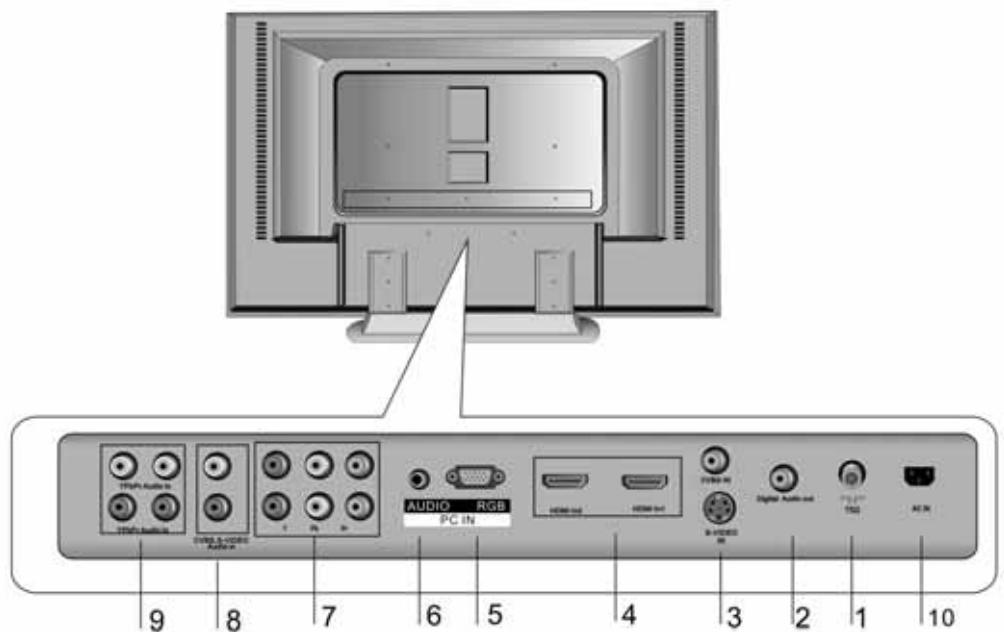


Owner's Manual



AA Batteries

Connection Options



ITEM	JACK NAME	FUNCTION DESCRIPTION
1	TV SIGNAL IN	Connect the antenna
2	Coax	Connect the digital AUDIO output jack of amper
3	S-VIDEO INPUT	Connect the S-VIDEO output jack of DVD or VCR
4	HDMI INPUT	Connect the HDMI output jack of DVD
5	PC-RGB INPUT	Connect the PC-RGB output jack of PC
6	PC AUDIO INPUT	Connect the Audio output jack of PC
7	YPbPr INPUT	Connect the YPbPr Video output jack of DVD
8	AUDIO IN	Connect the Audio output jack of DVD or VCR for CVBS and S-VIDEO
9	YPbPr AUDIO	Connect the Audio output jack of DVD or VCR YPbPr
10	AC IN	AC input socket (AC100~240)



POWER

Switch on LCD TV when at standby mode or vice versa.

MUTE

Press to mute the sound. Press again or press VOL+ to unmute.

NUMBER BUTTONS

Press 0-9 to select a TV channel directly when you are watching TV. The channel change after 2 seconds.

-/-

Press this button to enter a program number for multiple program channel such as 2-1,etc.



Return to the previous channel viewed.

CH+/-

Press to scan through channels. To scan quickly channels, press and hold down either +/-button.

VOL+/-

Press to increase / decrease the sound level.

MTS

Press to select the audio channels

CC

Press to display the closed caption.

DISPLAY

Press to display the source and channel's information.



Press to display favorite list menu

Press to display audio list menu

Press to display channel list menu

THUMBSTICK(▲/▼/◀/▶ / ENTER (OK))

Allows you to navigate the on-screen menus and adjust the system settings to your preference.

EXIT

Clears all on-screen displays and returns to TV viewing from any menu.

MENU

Brings up the main menu to the screen.

INPUT

Press to cycle through the input source.

PMODE

Press repeatedly to cycle through the available video picture modes.

S MODE

Press to cycle through the different sound settings.

SLEEP

Lets you select amount of time before your TV turn itself off automatically..

ZOOM

Enlarges the main picture size.

FAV

Press to add or remove favorite channel.

FAV+

Press to increase the program which you favorite.

FAV-

Press to decrease the program which you favorite.

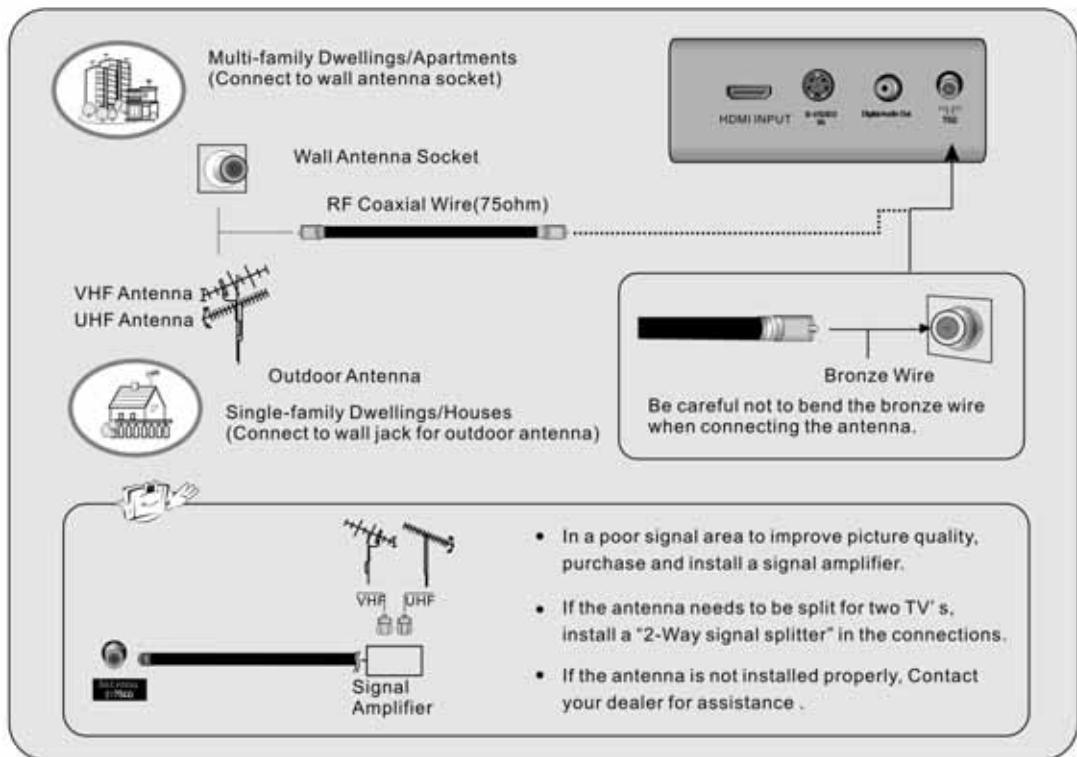
EPG

Press to enter the EPG menu directly.

External Equipment Connections

Antenna Connection

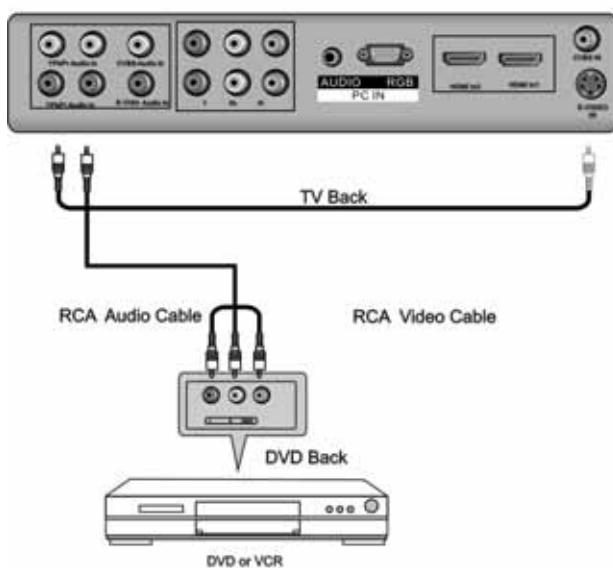
- Antenna or Cable Service without a Cable Box Connections
- For optimum picture quality, adjust antenna direction if needed.



NOTE: Before connecting any external equipment, turn off all main power for safety.

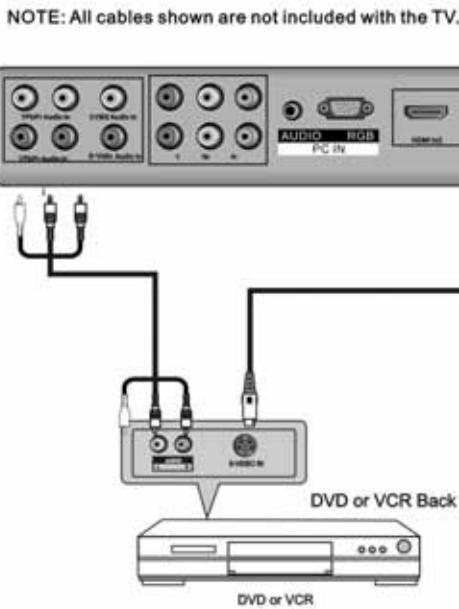
AV INPUT Connection

NOTE: All cables shown are not included with the TV.



- Connect the VIDEO and AUDIO output jack of the DVD or VCR to the AV IN jacks on the set using the RCA cable.
- Match the jacks colors: Video=yellow, Audio left=white, and Audio right=red.
- Select the AV input source with using the TV/AV button on the remote control.

S-VIDEO Connection



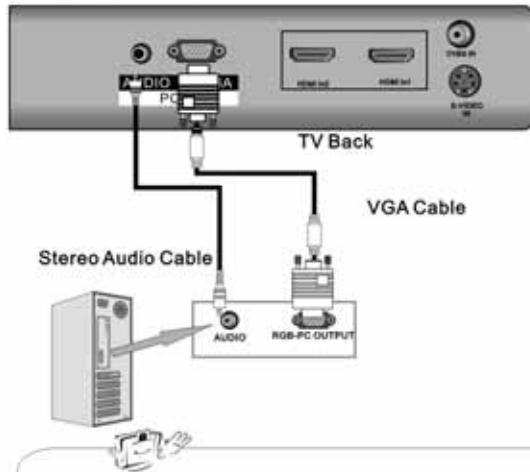
- Connect the an S-VIDEO output of the DVD or VCR to the S-VIDEO input on the set. The picture quality is improved compared to connecting a regular VCR to the video input.
- Connect the Audio output of the DVD or VCR to the Audio input jacks on the set using the RCA cable.
- Connect the Audio output of the DVD or VCR to the Audio input jacks on the set using the RCA cable.
- Insert a DVD or video tape into the DVD or VCR and press play. (Refer to the DVD or VCR owner's manual.)
- Select S-VIDEO input source with using the TV/AV button on the remote control.



Do not connect both VIDEO and S-VIDEO at the same time.

PC Connection

- This TV provides Plug and Play capability, meaning that the PC adjusts automatically to the TV's setting. The TV sends configuration information (EDID) to the PC using the Video Electronics Standard Association(VESA) Display Data Channel(DDC) protocol.



- Connect the RGB output of the PC to the VGA in jack on the set.
- Connect the PC AUDIO output of the PC to the PC AUDIO IN jack on the set.
- Turn on the PC and set.
- Select the VGA input source with using TV/AV button on the remote control.

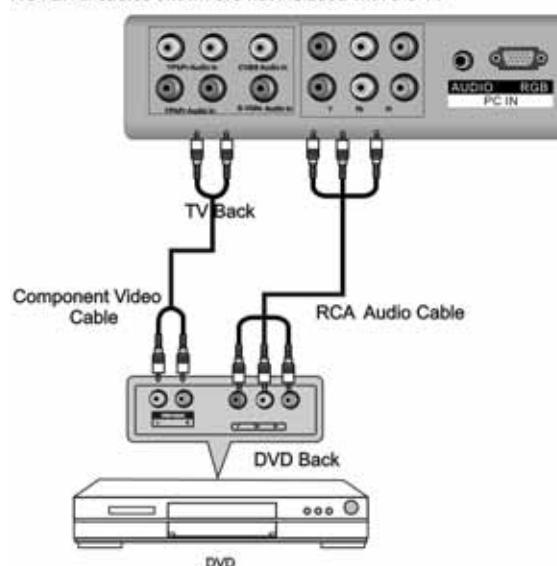
1. To get the best picture quality, adjust the PC graphics card to 1024 x 768@60Hz.

2. If using a sound card, adjust the PC sound as required.

3. Check the image on your TV, there may be noise because of the resolution, vertical pattern, contrast or brightness in PC mode. If noise is present, change the PC mode to another resolution, change the refresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the PC graphic card can not be changed, change the PC graphic card or consult the manufacturer of the PC.

Component Video Connection

NOTE: All cables shown are not included with the TV



- Connect the video outputs(Y,Pb,Pr) of the DVD to the COMPONENT VIDEO(Y,Pb,Pr)jacks on the set.
- Connect the audio outputs of the DVD to the COMPONENT AUDIO jacks on the set.
- Turn on the DVD or VCR player, insert a DVD.
- Select the YPbPr input source with using the TV/AV button on the remote control.
- Refer to the DVD play's manual for operating instructions.



Component input ports

TO get better picture quality, connect a DVD player to the component input ports as shown below.

Component ports on the TV	Y	Pb	Pr
Video output ports on DVD player	Y	Pb	Pr
	B-Y	R-Y	
	Cb	Cr	
	Ps	Pr	

Menu Operation

Basic operation

Turning on and off the TV

TURN ON LCD TV

1. Connecting to the AC input cable then press the main power switch to switch ON LCD TV. At this time the TV will enter standby mode and indicator show red.
2. Use POWER button can turn ON LCD TV from standby mode.

TURN OFF LCD TV

1. Press POWER button or  button on the remote control to enter standby mode. The indicator is red.
2. Using main power switch turns off LCD TV completely.

Select on screen language

NOTE: If you use your LCD TV for the first time, you should select the language which will be used for displaying menus and indications.



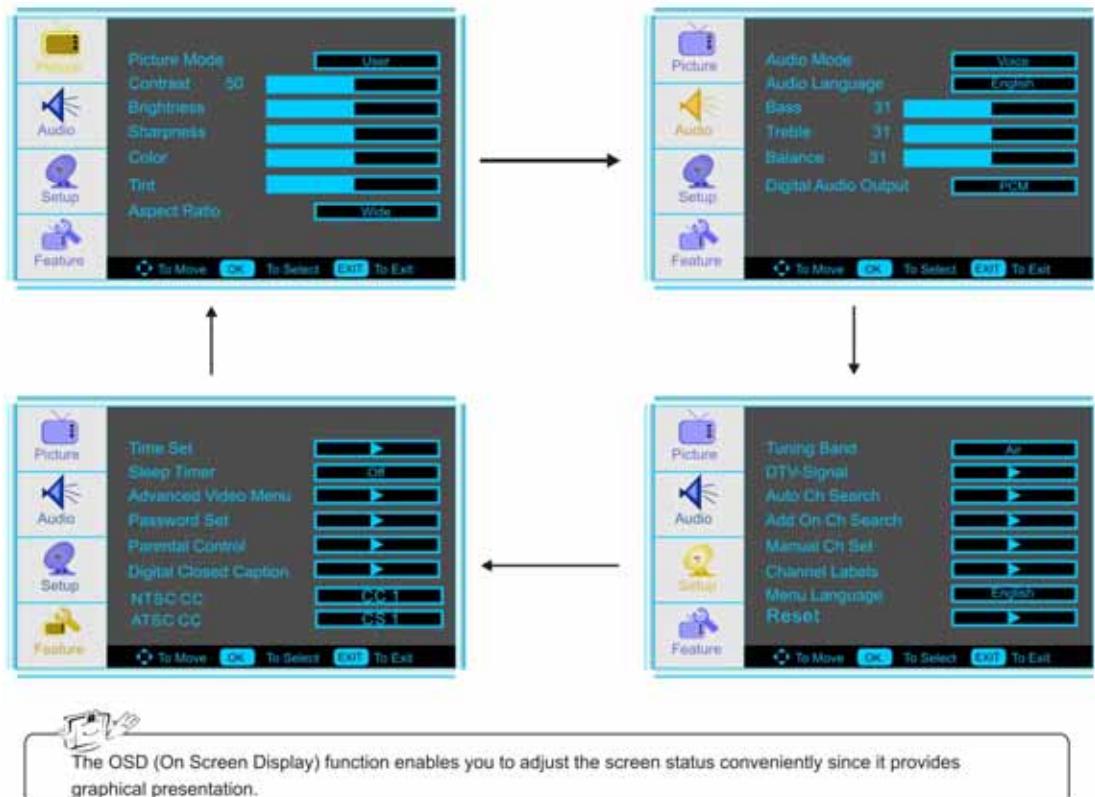
- Press **MENU** to display the main menu.
- Press **▲ / ▼** repeatedly to select the **SET MENU**.
- Use **◀ / ▶** and **▲ / ▼** to select **LANGUAGE**.
- Press **◀** and **▶** button to select your desired language.
- When you are satisfied with your choice, press the **MENU** or **EXIT** to exit.

Volume adjustment

1. Press **VOL+/-** to adjust the volume.
2. If you want to switch the sound OFF, press the **MUTE** .
3. You can cancel this function by pressing **MUTE** or **VOL+/-**.

How to adjust the OSD screen

- Press the **MENU** button to display the main menu.
- Use **▲/▼/◀/▶** buttons to select and adjust the available menus.



The OSD (On Screen Display) function enables you to adjust the screen status conveniently since it provides graphical presentation.

Choosing a TV channel

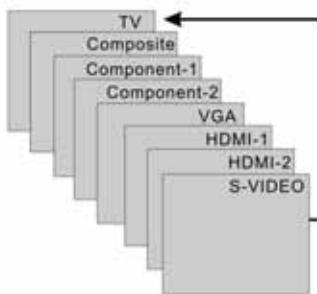
1. Using the **CH+/CH-** on the front panel or on the remote control.
 - Press **CH+** to increase channel number.
 - Press **CH -** to decrease channel number.
2. Using 0-9 digital buttons and **-/-** button

You can select the channel number by pressing 0 to 9 or **-/-**.
3. Example:
 - To select 1-digit channel (e.g. Channel 5): Press the 5 button.
 - To select 2-digit channel (e.g. Channel 20): Press the **-/-** button repeatedly to display **--** then press 2, follow by 0.
 - To select 3-digit channel (e.g. Channel 103): Press the **-/-** button repeatedly to display **--** then press 1, follow by 0, follow by 3.

Note: After select the digit button, the digit will be memorized.

Selecting input source

You can select the input source by pressing the **INPUT** on the remote control or on the front panel.



Picture menu options



In this manual, the OSD (On Screen Display) may be different from your TV's because it is just example to help the TV operation.

Press the MENU on the front panel or on the remote control and then use **▲ / ▼** to select the Picture menu.



1. Use **▲ / ▼** to select what you want to adjust in the Picture menu.
2. Press **◀** and **▶** button to adjust.
3. When you are satisfied with your adjustment, press **MENU** or **EXIT** to exit the main menu.

Picture Mode

Select the type of picture which best corresponds to your viewing requirements by selecting Picture Mode in PICTURE menu. You may select the picture mode directly by pressing the PMODE button on the remote control.

Contrast

Press **▼ / ▲** button and then use **◀ / ▶** to adjust the contrast of the picture.

Brightness

Press **▼ / ▲** button and then use **◀ / ▶** to adjust the brightness of the picture.

Sharpness

Press **▼ / ▲** button and then use **◀ / ▶** to adjust the sharpness level of picture.

Color

Press **▼ / ▲** button and then use **◀ / ▶** to adjust the color saturation.

Tint

Press **▼ / ▲** button and then use **◀ / ▶** to adjust the tint of picture.

Aspect Ratio

Press **◀ / ▶** to select the ratio of picture display such as Normal/ Zoom/ Wide and Full screen

AUDIO menu options

Press MENU on the front panel or on the remote control and then use **▲ / ▼** to select the AUDIO menu.



1. Use **▲/▼** to select what you want to adjust in the **Audio** menu.
2. Press **◀** and **▶** button to adjust.
3. When you are satisfied with your adjustment, press **MENU** or **EXIT** to exit the main menu.

Audio Mode

You can select the type of sound which best corresponds to your listening requirements by selecting Sound in SOUND menu. You may select the sound mode directly by pressing the S MODE button on the remote control.

Audio Language

Press **◀ / ▶** to select one of the audio language such as English/ French and Spain, but the condition is that the program system has included the language code.

Bass

Press **▼ / ▲** button and then use **◀ / ▶** to increase or decrease the level of the lower-pitched sounds.

Treble

Press **▼ / ▲** button and then use **◀ / ▶** to increase or decrease the level of the higher-pitched sounds.

Balance

Press **▼ / ▲** button and then use **◀ / ▶** to adjust the audio output between left and right speakers.

Digital Audio Output

Press **◀ / ▶** to select the one of mode of the digital audio output such as PCM and RAW.

Setup menu options

Press **MENU** on the front panel or on the remote control and then use **▼ / ▲** to select the Setup menu.



1. Use **▲ / ▼** to select what you want to adjust in the **Setup** menu.
2. Press **◀** and **▶** button to adjust.
3. When you are satisfied with your adjustment, press **MENU** or **EXIT** to exit the main menu.

Tuning Band

Press **Enter** key to select Air, Cable, Cable HRC, Cable IRC or Cable Auto.

DTV-Signal

In DTV mode, you can tune manually and adjust the angle, orientation of the antenna etc.

Auto Ch Search

Press **▲** / **▼** key to move the cursor to the item to be selected (item selected is highlighted in yellow). Press **Enter** key to enter your selection and scan. After the scan is finished, the following menu will display. The channels found are automatically saved as below:



Add On Ch Search

When the channels are found, use **◀** / **▶** to add it to the channel list.

Manual Ch Set

Press **Enter** button to display a channel list that you can select channel as below:



Channel labels

Allows you to name the channel that is selected. Use **◀** / **▶** to move the cursor and use **▲** / **▼** to input the name and then press **Menu** or **Enter** to return or exit as following:



Manual Language

To select language of the OSD such as English/ French and Spain

Feature menu options

Press MENU on the front panel or on the remote control and then use **◀ / ▶** to select the Feature menu.



1. Use **▲/▼** to select what you want to adjust in the **Feature** menu.
2. Press **◀** and **▶** button to adjust.
3. When you are satisfied with your adjustment, press **MENU** or **EXIT** to exit the main menu.

Time Set

Press **▼/▲** button and then use Enter the time set menu as below that allows you to set the time the TV will display.



Time Set Mode

You can select one of auto and manual to set the time. When selected auto, the item of year/date and time will be disabled and can not to adjust. When select the manual mode, you can press **◀/▶** and **▲/▼** to set the corresponding functions.

Time Zone

Press **◀/▶** to select the time zone such as Pacific/ Alaska/ Hawaii/ Eastern/ Central/Mountain.

Sleep Timer

Press **◀/▶** to select the amount of time before your TV turn off automatically and press the Enter that can select the 30 min /60min/90min and OFF.

Advance Video Menu

Press Enter to enter the advance video menu as below:

- Noise Reduction--Spatial: press Enter to select on or off.
- Noise Reduction--Speckle: press Enter to select on or off.
- Noise Reduction--Temporal: press Enter to select on or off.
- Auto Contrast Enhancement: press Enter to select on or off.



- Color Temperature: press Enter to select one of Normal/Cool and Warm.
- 3D Y/C: press Enter to select on or off.
- Adaptive Contrast: press Enter to select on or off.
- Setting: press Enter to return to the factory setting.

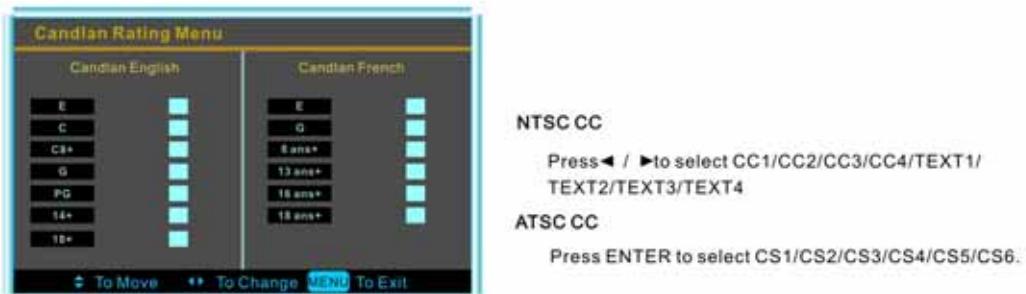
Password Set

Press Enter to enter the Enter Old Password menu, and then input the number of 0-9 as below, and you can change the password when you input the new one twice.



Parental Control

Press Enter to enter the sub-menu and then uses the 0-9 to enter the correct password.



Digital Closed Captions

This item allows you to set the closed caption, and press Enter to enter Closed Caption Options menu as below:



- Style: press Enter to select one of Automatic and Custom, when you select automatic, the others are disable and can not be adjusted.
- Size: press Enter to select one of Normal/Large and Small.
- Font: press Enter to select one of Default and from Font1 to Font7.
- Text Color: press Enter to select one of Red/Green/Blue/Yellow/Magenta/Cyan/Black and White.
- Text Opacity: press Enter to select one of the Solid/Flashing/Transparent/Translucent.
- Background Color: press Enter to select one of the Black/White/Red/Green/Blue/Yellow/Magenta/Cyan.
- Background Opacity: press Enter to select one of the Solid/Flashing/Transparent/Translucent.
- Edge Effect press Enter to select one of the None/Raised/Depressed/Uniform/Left Shadow/Right Shadow.
- Edge Color press Enter to select one of the Black/White/Red/Green/Blue/Yellow/Magenta/Cyan.

VGA menu options

Press MENU on the front panel or on the remote control and then use ▼ / ▲ to select the Feature menu in VGA mode.



1. Use ▲/▼ to select what you want to adjust in the Feature menu.
2. Press ▲ and ▼ button to adjust.
3. When you are satisfied with your adjustment, press MENU or EXIT to exit the main menu.

VGA Set

Press ▲/▼ button and then use Enter to enter the VGA set menu as below:



H-Pos

Press ▼/▲ button and then use ▲/▼ to adjust the horizontal position of the picture.

V-Pos

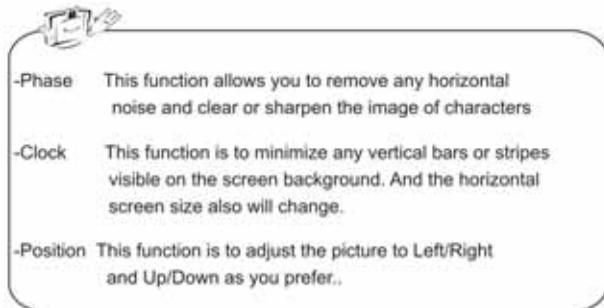
Press ▼/▲ button and then use ▲/▼ to adjust the vertical position of the picture.

Phase

Press ▼/▲ button and then use ▲/▼ to adjust the phase of the picture.

Clock

Press ▼/▲ button and then use ▲/▼ to adjust the clock of the picture.



Auto Adjust

Press ▼/▲ button and then use ▲/▼ to do auto adjust that automatically adjusts the available options for the best viewing configuration.

Setting

Press Enter to do preset that can return to the factory setting.

YPbPr menu options

Press MENU on the front panel or on the remote control and then use ▼ / ▲ to select the Feature menu in YPbPr mode.



1. Use ▲/▼ to select what you want to adjust in the Feature menu.
2. Press ▲ and ▼ button to adjust.
3. When you are satisfied with your adjustment, press MENU or EXIT to exit the main menu.

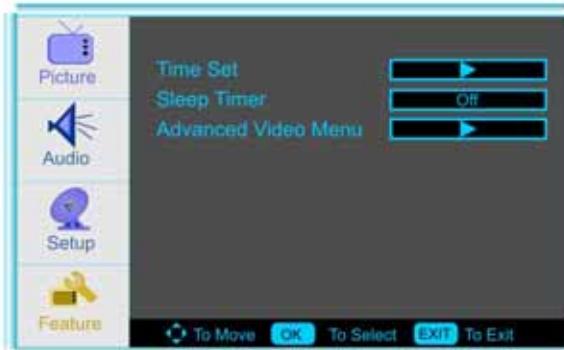
Component Set

Press ▲ / ▼ button and then use Enter to enter the VGA set menu as below:



HDMI and S-VIDEO menu options

Press MENU on the front panel or on the remote control and then use ▼ / ▲ to select the Feature menu in HDMI or S-VIDEO mode.



Time Set

Press ▼ / ▲ button and then use Enter the time set menu as below that allows you to set the time the TV will display.

Sleep Timer

Press ▲/▼ to select the amount of time before your TV turn off automatically and press the Enter that can select the 30 min /60min/90min and OFF.

Advance Video Menu

Press Enter to enter the advance video menu.

Caution

FCC RF INTERFERENCE STATEMENT

NOTE :

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause 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 authorized service centers for help.
- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment,

For USA / KOREA

32INCH	
Panel:	LG PHILIPS LCD
Size & Aspect ratio	31.51", 16:9
Resolution	1366*768(WXGA)
Contrast Ratio	1200:1
Luminance	500 cd/m ²
Viewing	Over170degrees
Connectors:	
RF in	1
A/V in/out	1RCA(out)
A/V in	1RCA
S-video in	1
Audio in	1RCA(L,R):AV.S-VIDEO
Component in	2RCA(Y,Pb,Pr)
Audio in	2RCA(L,R)
PC(RGB) in	15-Pin D-sub
Audio in	1mini jack type
HDMI in	1(2:option)
Power in	no
Earphone out	1mini jack type
Other Features:	
Receivable system	ATSC/Ntsc-M
Receivable channels	Air(2~69)/Cable(1~125)
Noise reductoin	yes
MTS	MTS
Dolby	yes
SPDIF	1COAX Jack
V-CHIP	yes
CC	yes
Digital CC	yes
EPG	yes
Sleep timer	yes
Time setting	Auto / Manual
Aspect ratio control	Wide/Cinema/Normal/Zoom
OSD Languages	3
Sound output	9W X 9W, 8Ω
Power	
Source	(AC 100~240, 50/60hz)
Consumption	St-by: 2Wunder, Operating : 135W
Accessories	Remote Control, Batteries, AC Power Code, User's Manual