



Westinghouse

USER'S MANUAL

MANUEL DE L'UTILISATEUR

MANUAL DEL USUARIO

VK-40F580D

1080P HDTV/DVD Combo

1080P HDTV COMBO LECTEUR



www.wde.com



**If you have any questions or concerns,
Please call our toll free number
1-866-287-555**

Owner's Record

The model and serial numbers are located on the back of the TV. Keep a record of the numbers in the spaces provided below. Refer to them whenever you call upon your Westinghouse Digital dealer regarding this product.

Model No. _____

Serial No. _____

Table of Contents

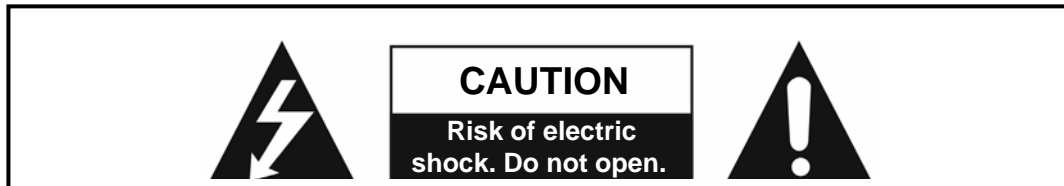
Important Safety and Precautions	3
Important Information.....	3
Important Safety Instructions	4
General Information	5
Features.....	5
Accessories.....	6
LCD TV Overview.....	7
Remote Control.....	10
Installation & Function Adjustments	12
Antenna Connection.....	12
Analog Cable Connection	12
Digital Cable Connection	13
Satellite Connection	13
For HD Cable Box or HD DVD with HDMI Input.....	14
For External Video Device with DVI input.....	15
For HD STB, DVD player, game console with component input.....	16
For Video Devices with S-video or composite Input	17
For PC connection with D-Sub and PC audio output jacks	18
How to remove the base	18
Watching TV.....	19
Installation.....	19
Turning the LCD Display On and Off.....	20
Running Initial Setup.....	21
Menu Navigation	23
Changing Channels.....	26
Adjusting The Volume	26
Selecting Input Source.....	27
Controls & Adjustments	28
Power Consumption.....	28
Picture Control.....	28
Sound Control.....	31
Channel Management.....	33
Timer Setting.....	35
Viewing Closed Caption.....	37
Ratings Locks	40
Other Controls	43
Photo View	50
Troubleshooting	56
PC input preset timing table	59
Specifications	60

Important Safety and Precautions

This wide active matrix TFT (thin film transistor) liquid crystal monitor is designed for use as a standalone TV as well as a display device for video electronics appliances and personal computers.

Important Information

Warning : To reduce the risk of fire or electric shock, do not expose this product to rain or moisture.



The symbol is intended to alert the user to presence of un-insulated "Hazardous Voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The symbol is intended to alert the user that improper use of the product may result in product malfunction. The user should pay attention to avoid accidents or unnecessary problems.

Caution : To reduce the risk of electric shock, do not attempt to disassemble or modify this device. There are no user-serviceable parts inside. Refer any service issues to qualified service personnel.

Caution : FCC/ CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

Warning : Do not leave stationary images, patterns, PIP windows, or letterbox images on the screen for prolonged periods of time as this may result in permanent damage to the LCD panel. This type of damage is not covered under warranty. The following are examples of, but not limited to, potentially hazardous display output: side bar images, video game patterns, closed captioning, channel logos and letterbox black bars. To prevent this type of damage, it is recommended to display constantly moving images that fill the screen as often as possible.

According to industrial standards for LCD display technology; there are a certain number of allowable defective pixels. Although we produce panels with more than 99.9% active cells, there still may be some cells that do not produce light or remain constantly lit. For further information, please contact sales or technical support.

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.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other 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 the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. 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.



General Information

Features

Your TV is designed with the latest technology and is a high-performance unit that includes the following special features:

- ◆ Multi-sources input included RF IN, D-SUB, HDMI, Composite, and Component.
- ◆ Built-in HDTV tuner capable of receiving ATSC, NTSC and Clear QAM Cable signals.
- ◆ 10W dual channel speakers are offered.
- ◆ Embedded video enhancer for better color image enhancement.
- ◆ Provided multi-channel sound decoder for stereo and bilingual broadcasts.
- ◆ Automatic sleep timer control from 15 to 90 minutes.
The sequence is 15→30→45→60→90.
- ◆ TV automatically power off while there is no signal input detected for 1 hour.
- ◆ Component video input designed to support only HDTV programming including input signal up to 720p, 1080i.
- ◆ Automatic Picture Control (APC) and Aspect Ratio Control (ARC) allow TV user to customize the DTV with their specific viewing preferences.
- ◆ Photo viewer function allows user to playback .jpeg still picture in a static form or a string of slide show, together with zoom in and out function.

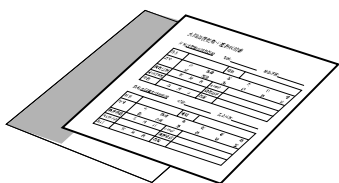
Accessories



User Guide



Remote Control & Batteries (AAAx2)



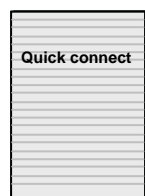
Warranty Card



Power Cord



Screw driver & Screws



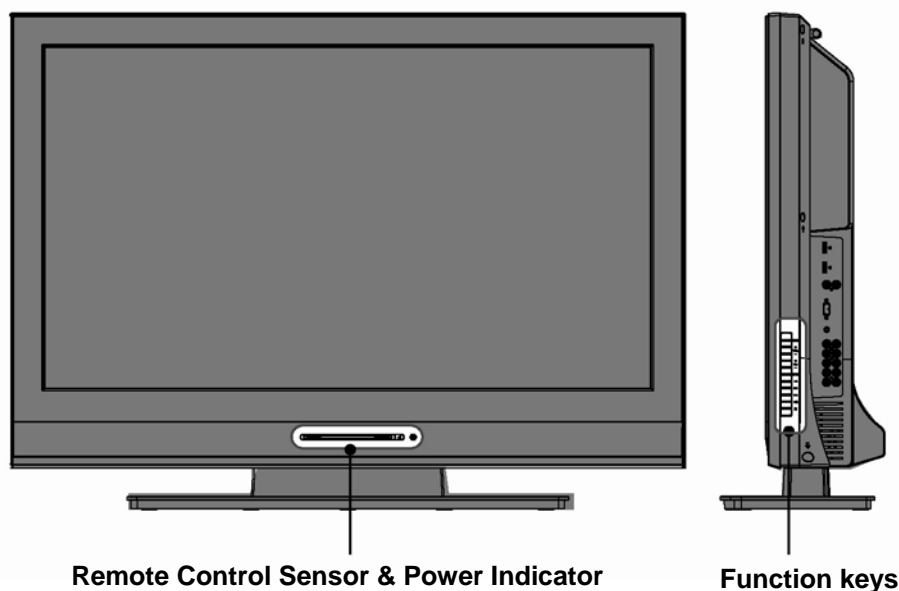
Quick Connect Guide

NOTE 1 : The number of screws may differ depending on your purchase.

LCD TV Overview

HDTV front view

Function keys

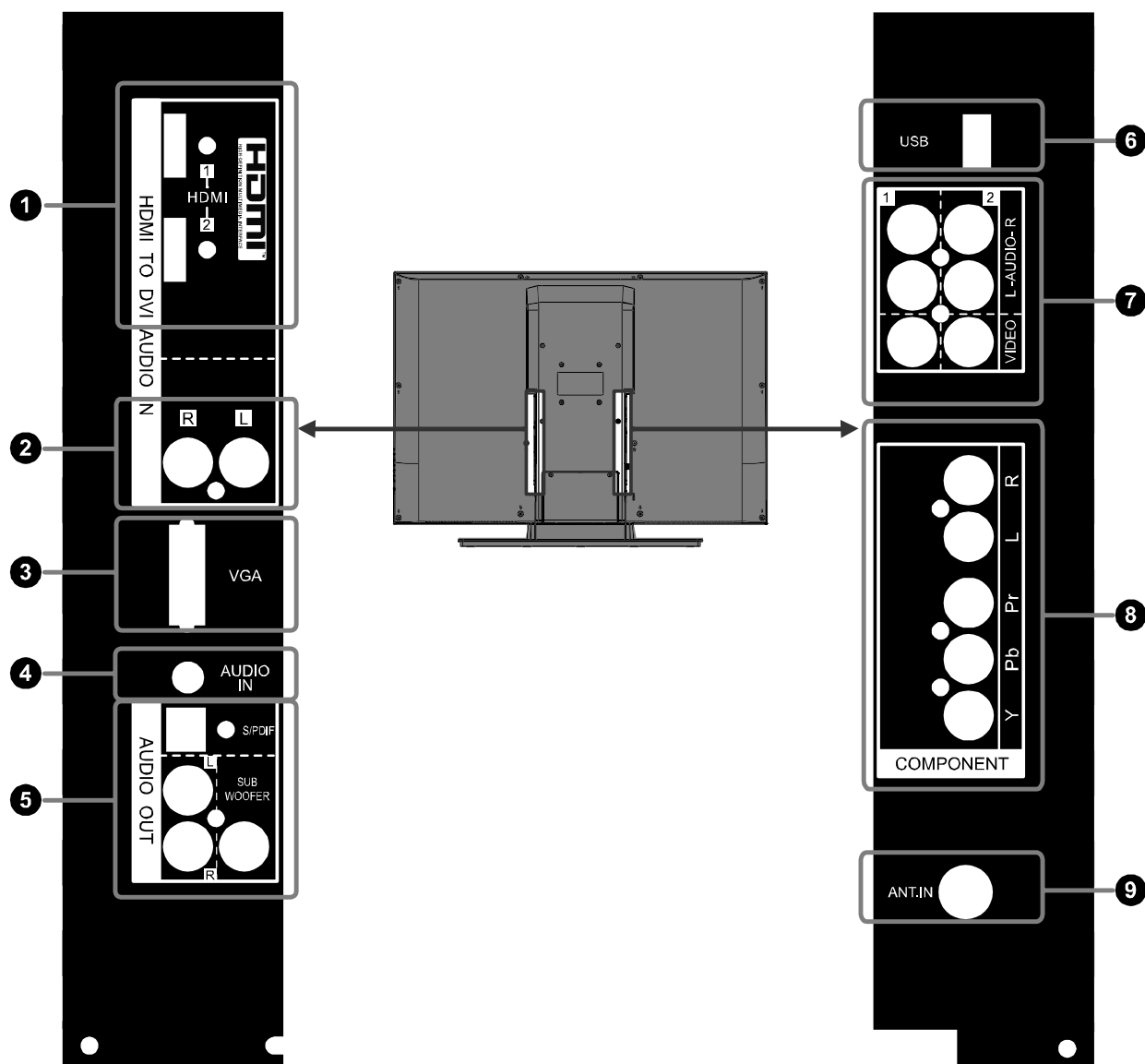


Terms	Describe compound function on keys	
1 MENU	Turn on/off OSD menu.	
2 VOL(◀/▶)	Increase or decrease volume sound. Also highlighted a selected mode left and right in OSD menu.	
3 CH (▲/▼)	Channel up/down while in TV source. Also highlighted a selected mode up and down in OSD menu.	
4 INPUT	Select active video sources (Tuner, CVBS, Component, HDMI, VGA , Photo-USB). Also highlighted a selected source with CH (▲/▼) button.	
5 POWER	Power on/off TV.	
6 REMOTE CONTROL SENSOR	Point the remote control towards remote sensor to command TV.	
7 POWER INDICATOR	WHITE	Power on
	AMBER	Power sleep
	EXTINGUISHED	Power off

NOTE 1 : These buttons on the TV is for basic settings only. For more advanced settings, the associated remote control is required.


NOTE 2 : The drawing of this LCD-TV in the user manual is for your reference. The actual TV appearance may differ depending on your purchase.

TV Rear Connectors

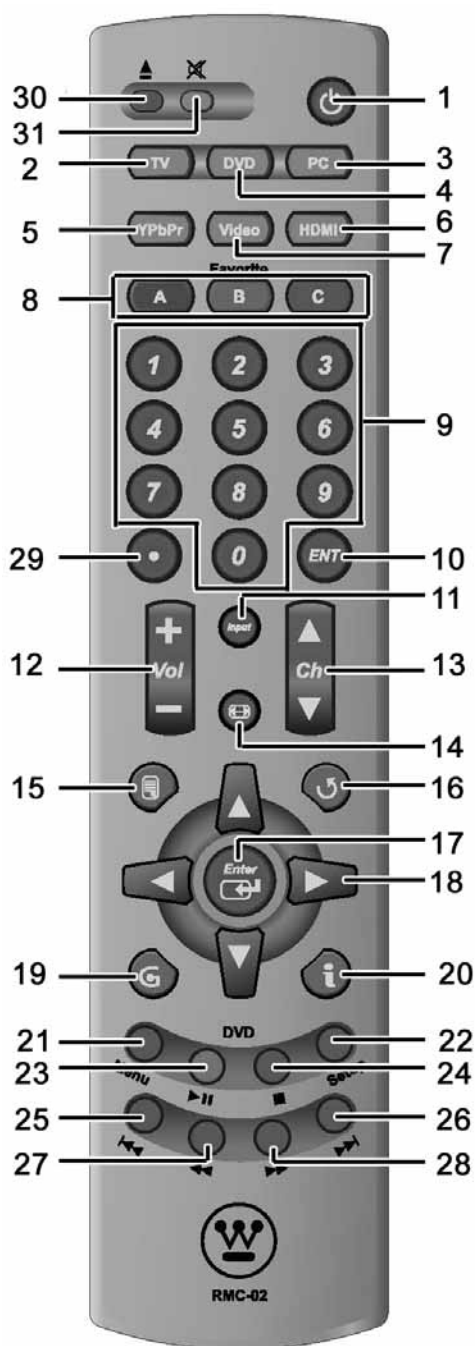


Jacks		Description
1	HDMI 1 / HDMI 2	Connect to an external video device such as HD digital cable/satellite receiver, HD STB, Media center PC, or DVD player.
2	HDMI Audio input (R/L)	Connect the audio input if you using a DVI-to-HDMI converter.
3	VGA	Using a 15-pin VGA cable, connect to a computer.
4	AUDIO IN	Connect to the audio out(Green) from a computer.
5	AUDIO OUT	SPDIF(Optical) Connect this output to an external stereo audio amplifier, receiver or surround sound processor with SPDIF optical input.
		Audio output (R/L) Connect this output to an external stereo audio amplifier, receiver or surround sound processor with R/L audio inputs.
		SUBWOOFER Connect this output to an external stereo audio amplifier, receiver or surround sound processor with subwoofer input.
6	USB	Play photo viewer function by connecting with a memory storage or digital camera through USB cable. Technician will be able to upload the latest firmware using this USB port as well.
7	VIDEO 1 / VIDEO 2 & Audio input(R/L)	Connect an external audio source to this jack.
8	YPbPr & Component	Connect component to an external AV device such as digital cable box, satellite STB, HD STB, DVD player or game console.
9	ANT. In (RF input)	Connect the LCD TV to an over-the-air antenna or cable service to view NTSC and ATSC(HDTV) content.

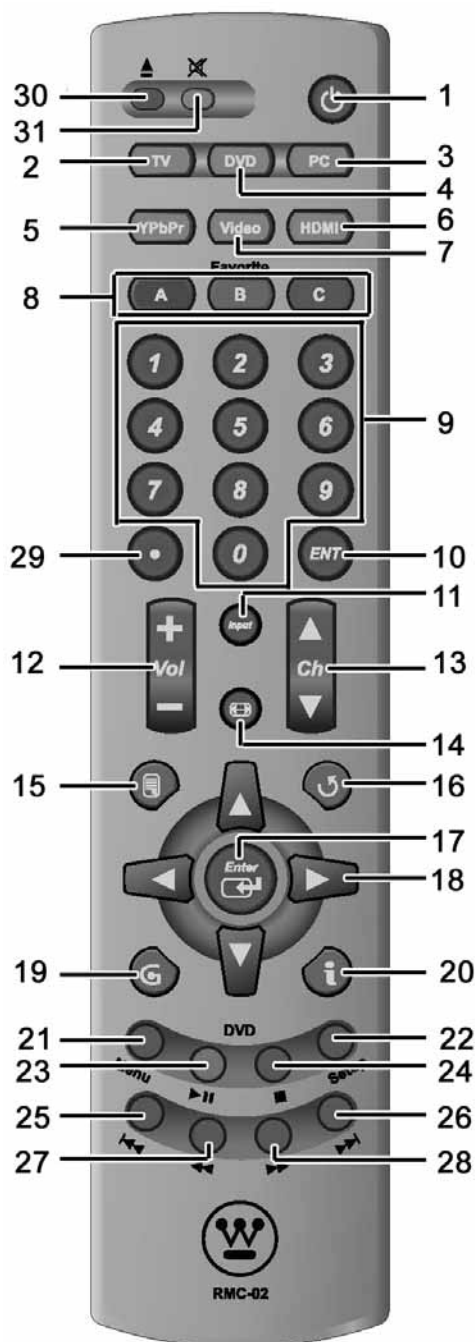
Video performance

BEST  GOOD	Connector type	Audio connection required or not
	HDMI	No
	RF IN	
	COMPONENT IN	Yes L – Audio - R
	COMPOSITE IN	

Remote Control



1	Power
	Switch TV power on/off.
2	TV
	Switch to TV
3	PC
	Switch to PC
4	DVD
	Switch to DVD
5	YPbPr
	Switch to YPbPr
6	HDMI
	Switch to HDMI
7	Video
	Switch to all video source
8	Favorite
	Select, remove or add your favorite channel. Press Favorite(A, B, C)key to access favorite list. Use arrow keys and enter key to select, add or remove the channel.
9	Channel number keys
	Select specific channel.
10	Enter
	Execute a command.
11	Input
	Select input source.
12	VOL +/-
	Volume Up/Down adjustment.
13	CH +/-
	TV channel Up/Down adjustment.
14	Screen Fit
	Select video display format "Standard" or "Fill".
15	Menu
	Display the User setup menu.
16	Return
	Switch to previous TV channel or previous video input
17	Enter
	Execute a command.
18	▲/▼/◀/▶
	OSD manual control(▲/▼:TV channel Up/Down;◀/▶:Volume Up/Down)

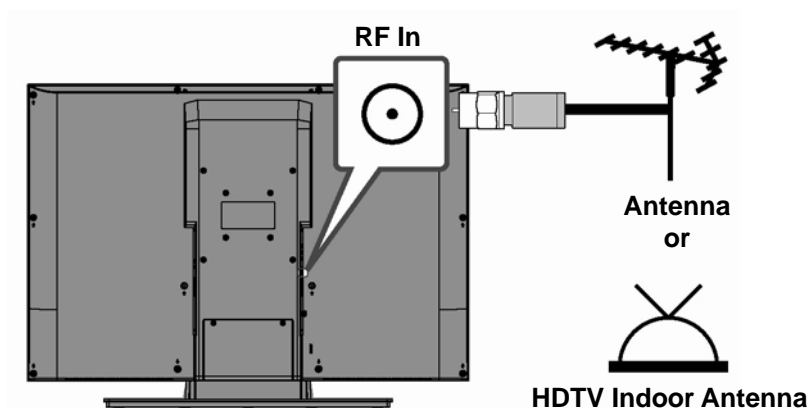


19	Guide
	Broadcast program information.
20	Info.
	Display the source and channel information.
21	DVD Menu
	Press to enter DVD Menu.
22	Setup
	Press to enter DVD Menu setup.
23	Play/Pause
	The play/pause function of DVD.
24	Stop
	The stop function of DVD.
25	Previous section
	Press to the previous section.
26	Next section
	Press to the next section.
27	Backward
	Backward for DVD.
28	Forward
	Forward for DVD.
29	Dot button(NOTES)
	Quicker access to all the available virtual channels
30	Eject
	DVD eject
31	Mute
	Turn the sound on/off.

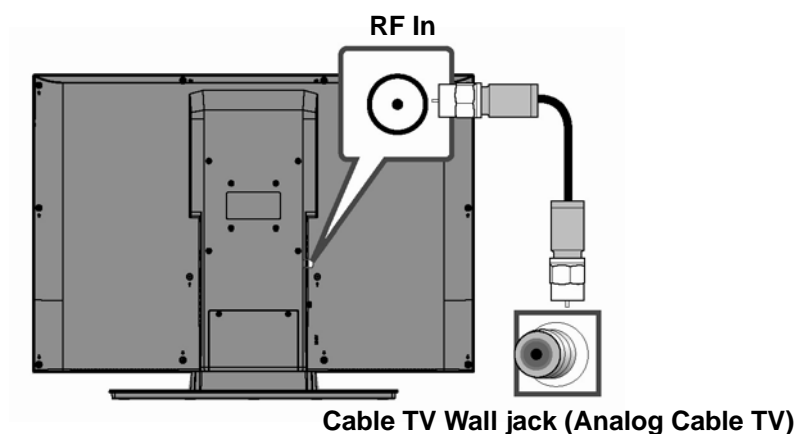
Installation & Function Adjustments

For Antenna, Analog Cable with RF input.

Antenna Connection



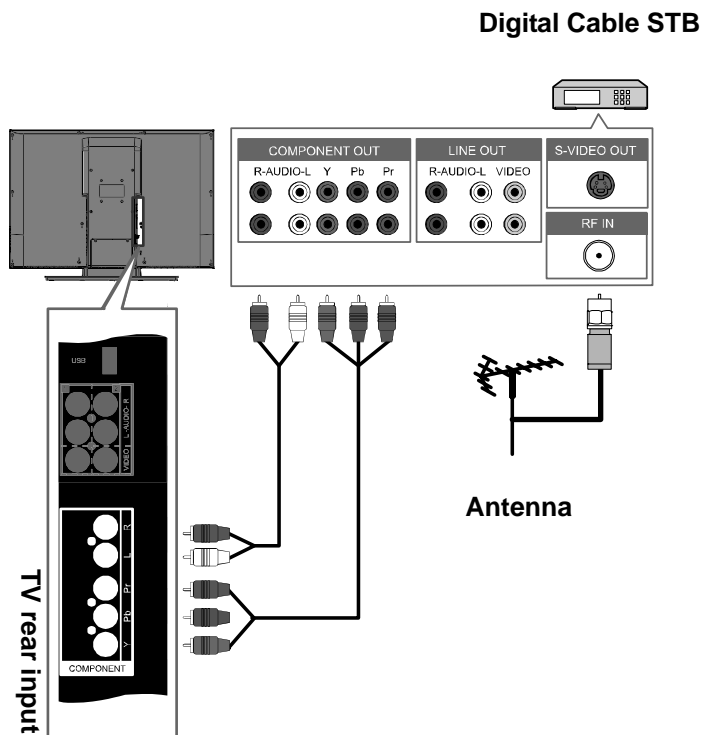
Analog Cable Connection



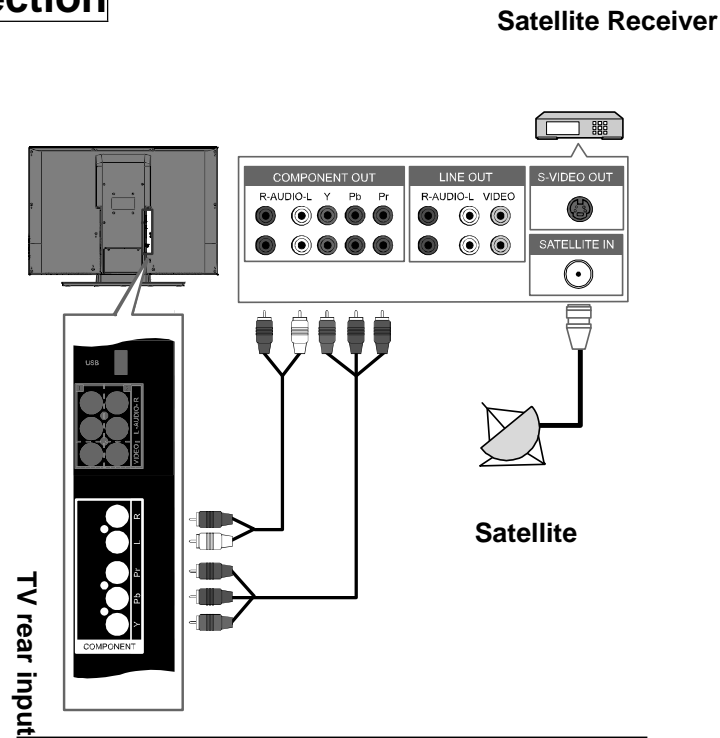
NOTE : If an outside antenna is connected to the product, make sure the antenna is properly grounded so as to provide some protection against voltage surges and build up static charges. Coaxial connector shielding from cable distribution system should be probably earthed.

For Digital Cable, Satellite with Component video inputs

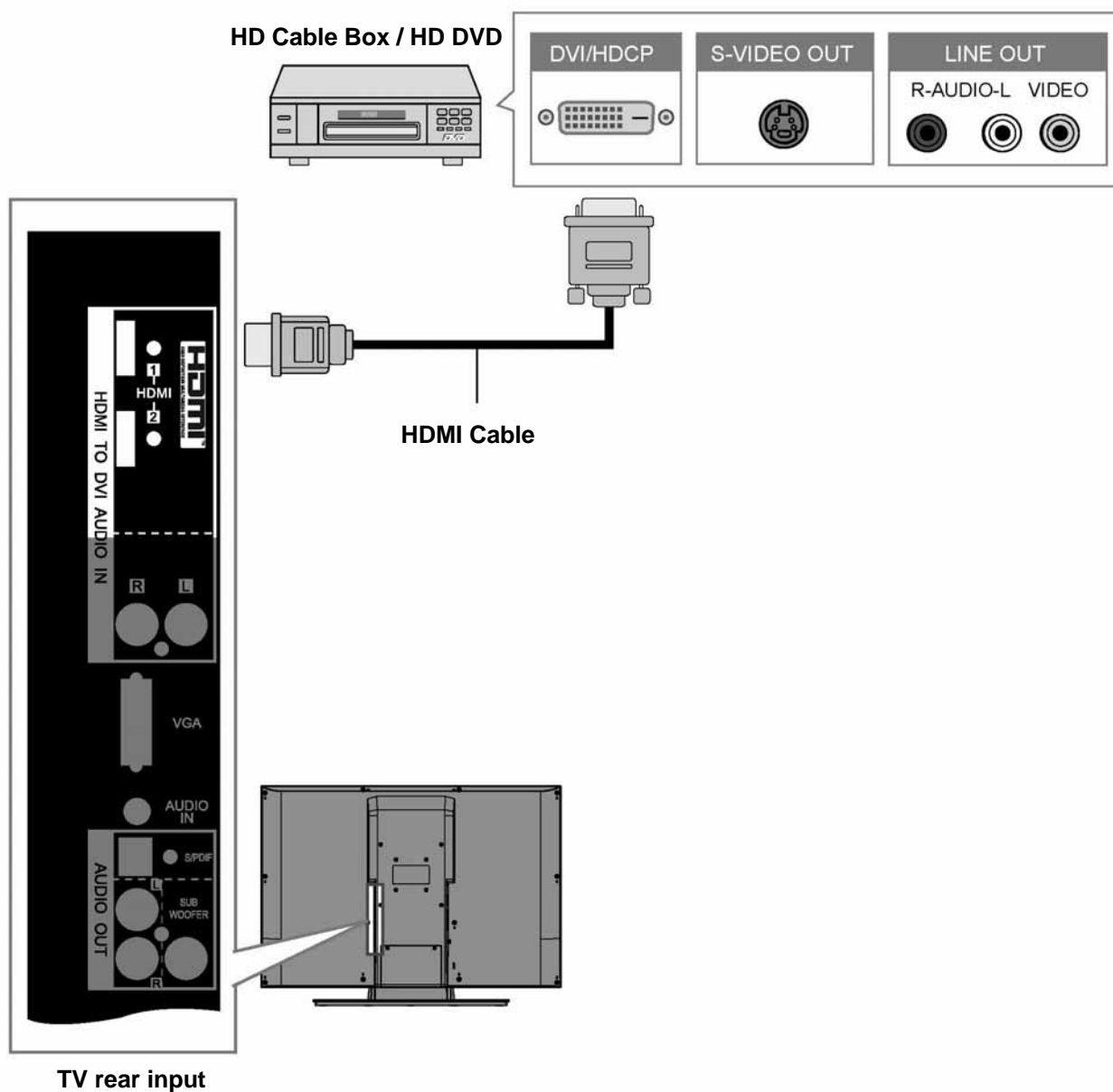
Digital Cable Connection



Satellite Connection



For HD Cable Box or HD DVD with HDMI Input



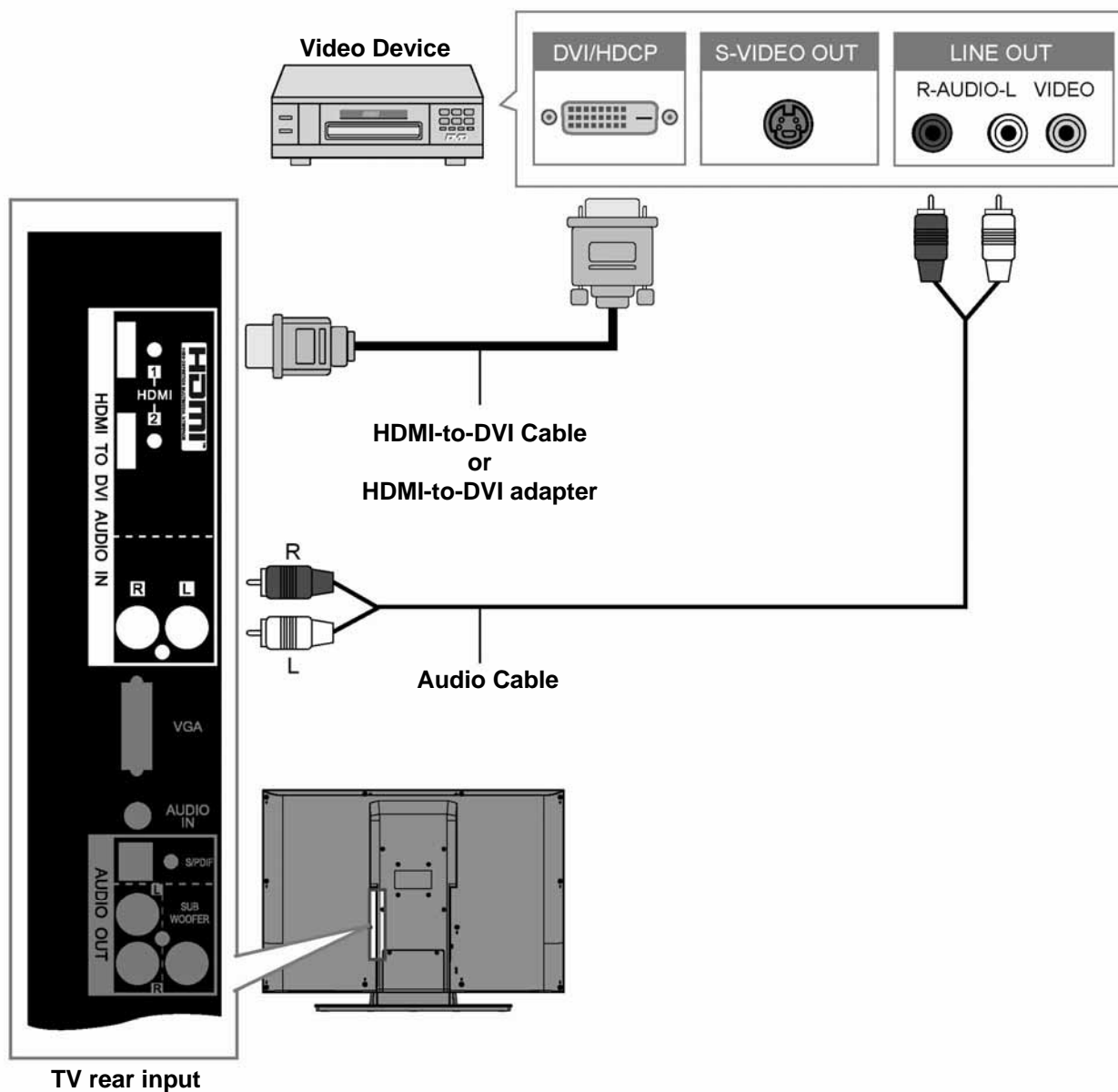
NOTE 1 : HDMI - High-Definition Multimedia Interface

NOTE 2 : No audio cable required for HDMI connection.

NOTE 3 : HDMI cable is exclude from standard accessory pack.

For External Video Device with DVI input

* Tips: recommend prioritizing HDMI jack ahead of DVI if your external video devices possessed both connectors.



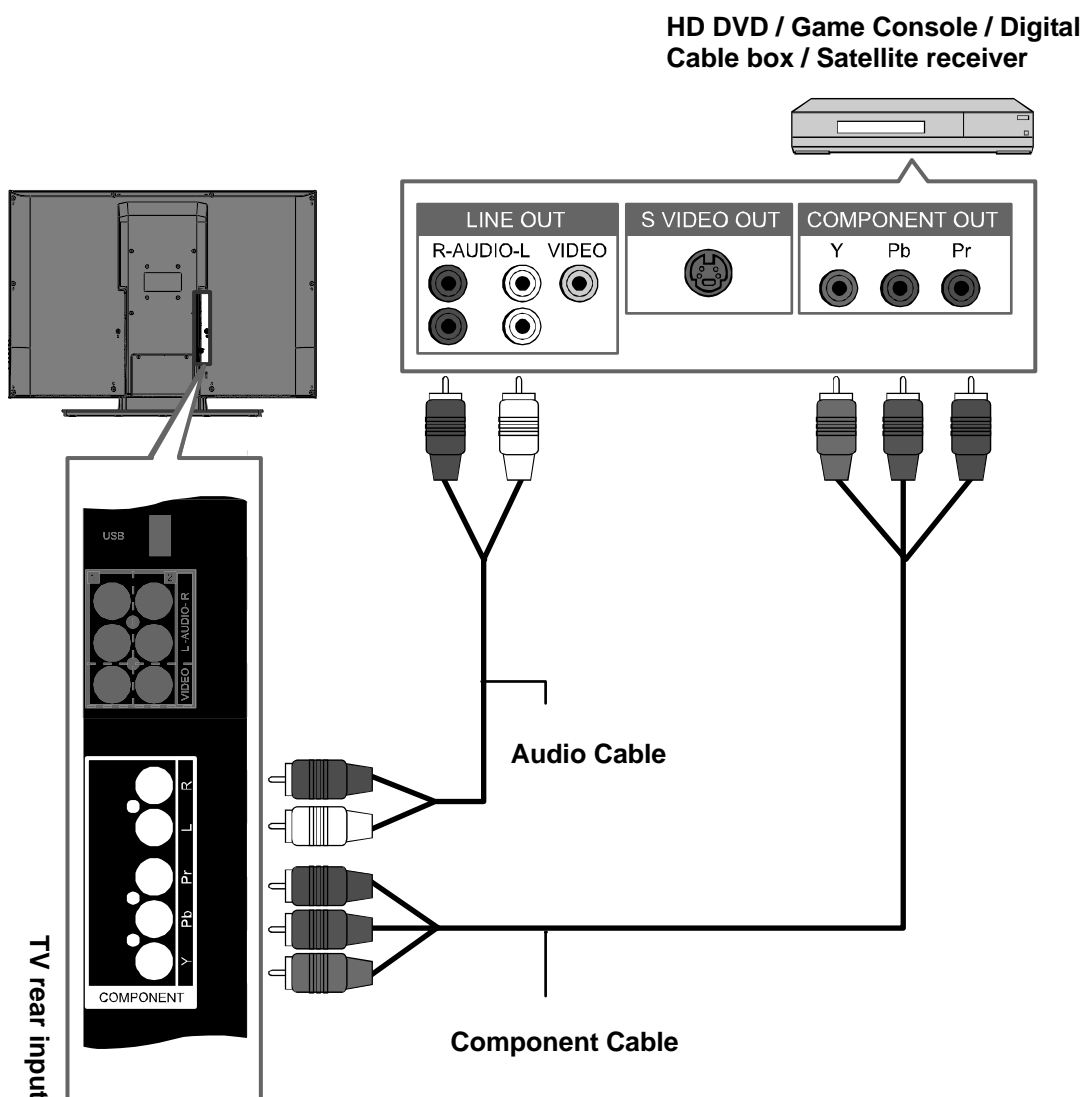
NOTE 1 : Video signal is transmitting through HDMI-to-DVI connection.

NOTE 2 : Audio signal is transmitting through 3.5 mm mini-jack audio cable with PC audio in.

NOTE 3 : Diagram above is applicable to any video device contains DVI connector.

NOTE 4 : Cables above are excluded from standard accessory pack.

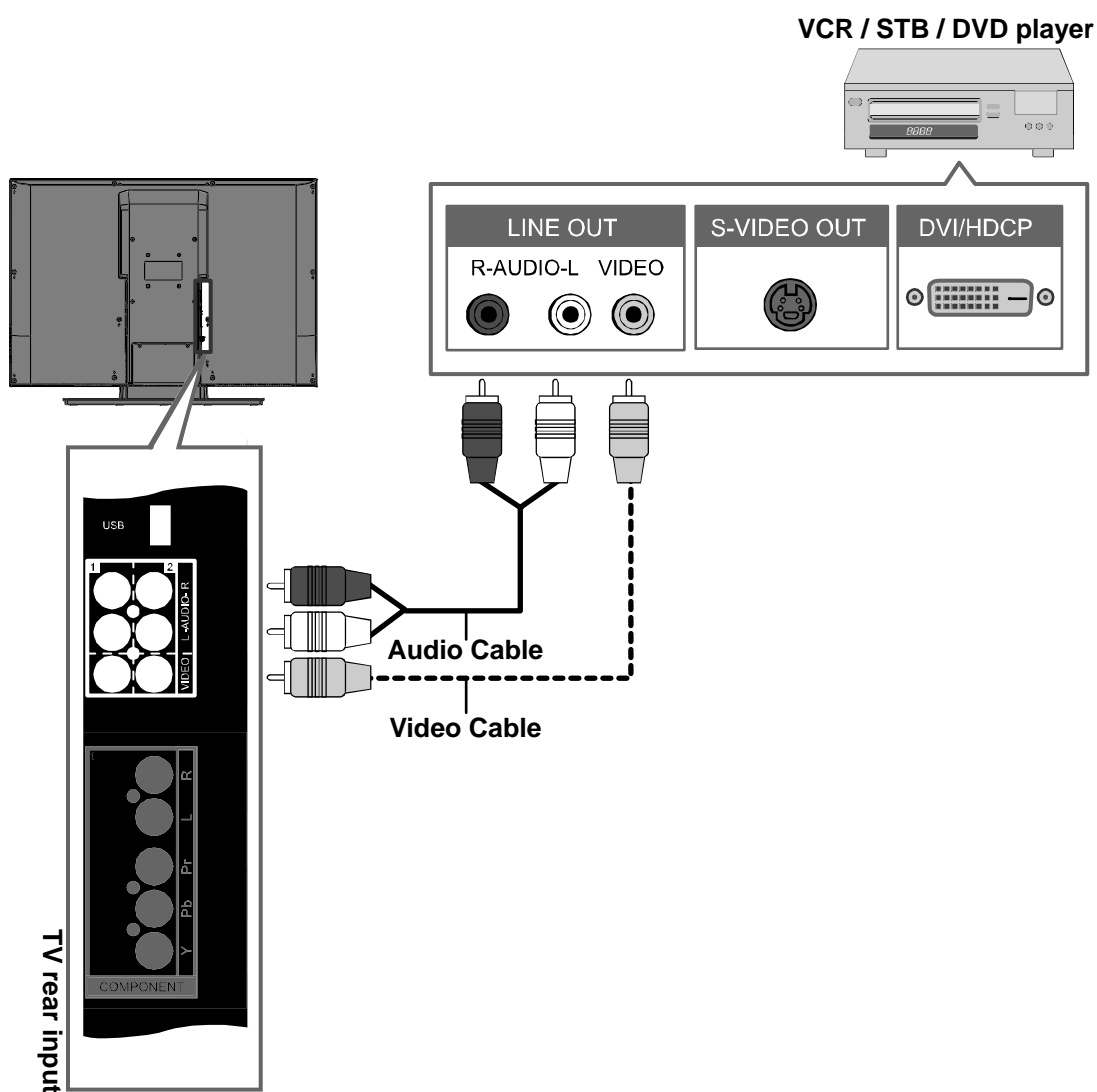
For HD STB, DVD player, game console with component input



NOTE 1 : Diagram above is applicable to any video device contains YPbPr connector.

NOTE 2 : Cables above are excluded from standard accessory pack.

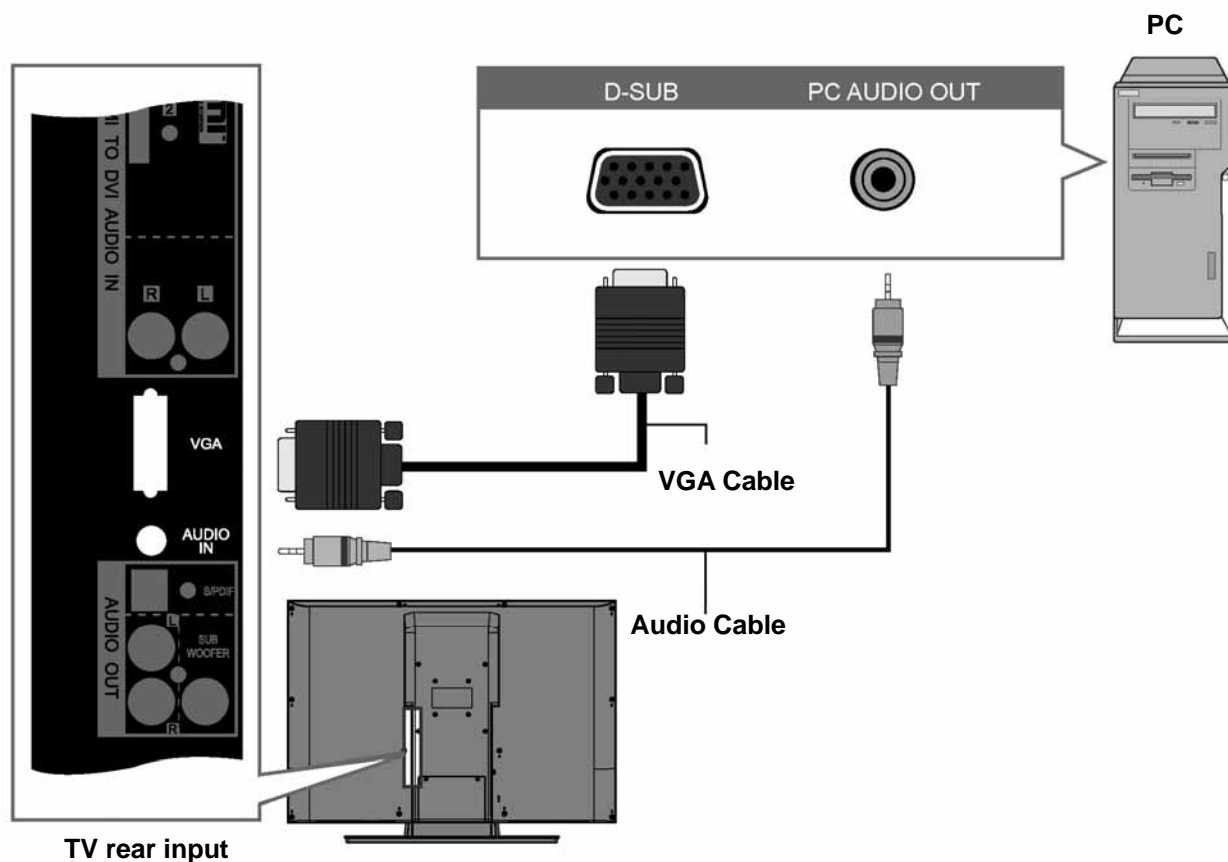
For Video Devices with composite Input



NOTE 1 : Prioritize S-Video jack ahead of Video jack if your video device possesses both connectors.

NOTE 2 : Cables above are excluded from standard accessory pack.

For PC connection with D-Sub and PC audio output jacks



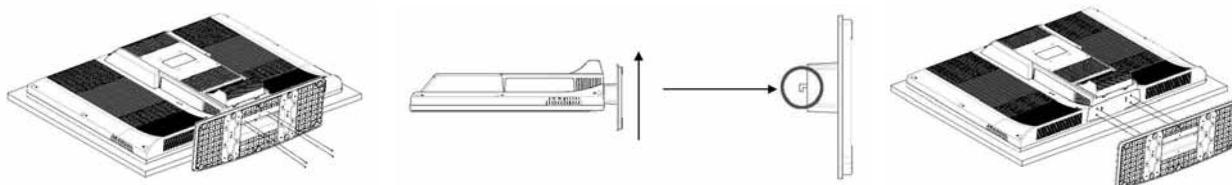
NOTE 1 : Video signal is transmitting through D-Sub connection.

NOTE 2 : Audio signal is transmitting through 3.5 mm mini-jack audio cable with PC audio in.

NOTE 3 : Cables above are excluded from standard accessory pack.

How to remove the base

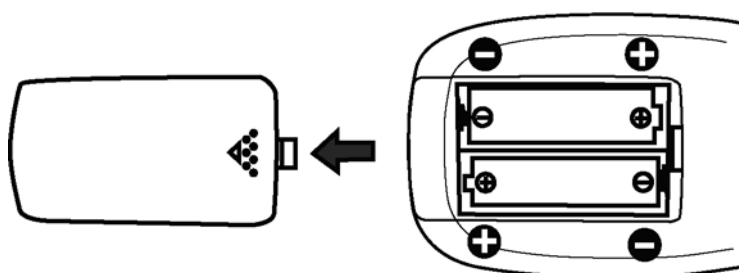
- a. Carefully place the TV face down on a soft clean surface.
- b. Remove the four screws underneath the BASE.
(See picture below)
- c. Pull out the BASE from the TV.



Installation

Insert Batteries into Remote Control

- 1) Remove the battery cover.
- 2) Insert two size AAA batteries corresponding to (+) and (-) marks on the battery compartment.



CAUTION

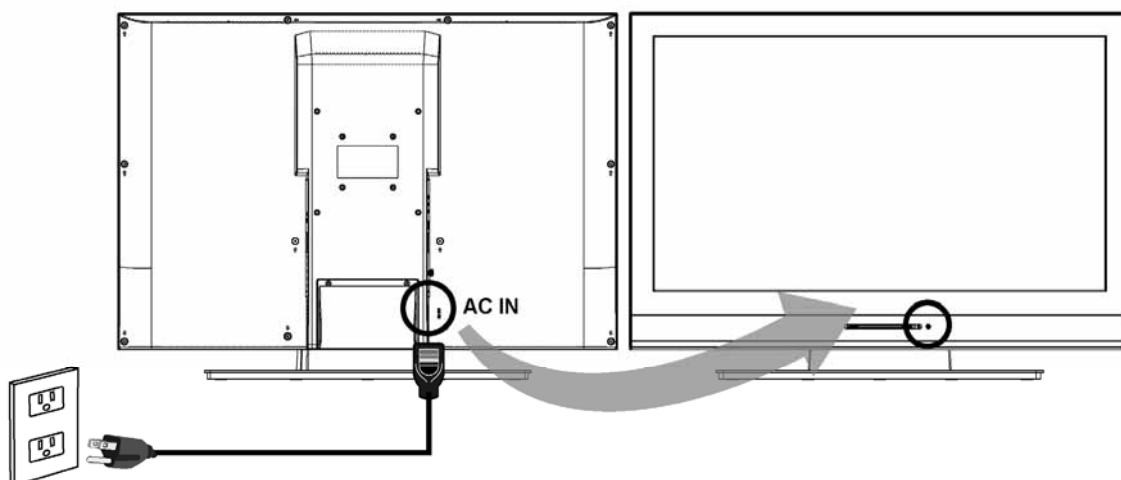
- Only use AAA batteries.
- Do not mix new and old batteries. This may result in cracking or leakage, which may pose a fire risk or lead to personal injury.
- Insert batteries according to (+) and (-) markings. Inserting the batteries incorrectly may result in cracking or leakage, which may pose a fire risk or lead to personal injury.
- Dispose of used batteries in accordance with local laws and regulations.
- Keep batteries away from children and pets.
- When the remote control will not be used for an extended period, remove the batteries.

Turning the LCD Display On and Off

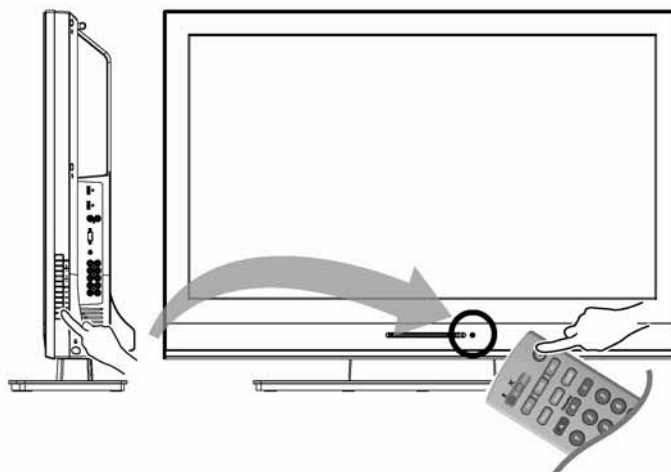
Turning on

Follow the instruction below to set up your TV step by step.

Step 1: Plug the power cord into AC In receptacle of LCD-TV and the other end to the wall outlet. The power indicator located right at LCD-TV front of the LCD-TV will light up in red instantly.



Step 2: Press the **POWER** button on TV or on remote control to turn on the display. The LED indicator will light up in blue.



Turning off

When the display is on, press **POWER** button of the display, or press the **POWER** button on the remote control to turn it off. Once the TV is turned off, the LED indicator in the front will light up in red.

Tips: The Power on/off switch does not completely cut off power supply from LCD-TV. If you do not intend to watch your TV for very long, please unplug the power cord to switch the main power off.

Running Initial Setup

Initial setup is required whenever the TV is power on at the first time.

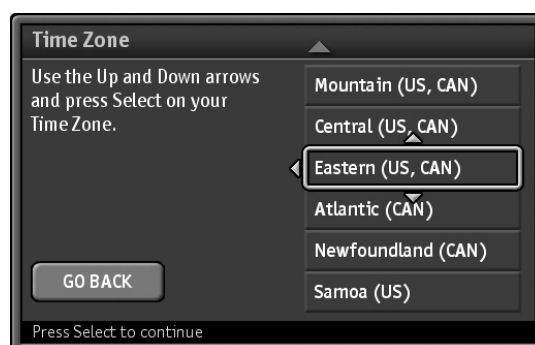
Language selection

1. Press **Power** button on the remote control. A welcome message is displayed. Use the arrow keys to select the language you prefer, and press **Enter** button on the remote control to continue.



Time Zone selection

2. Press arrow keys to select on your Time Zone, and press **Enter** button on the remote control to continue.



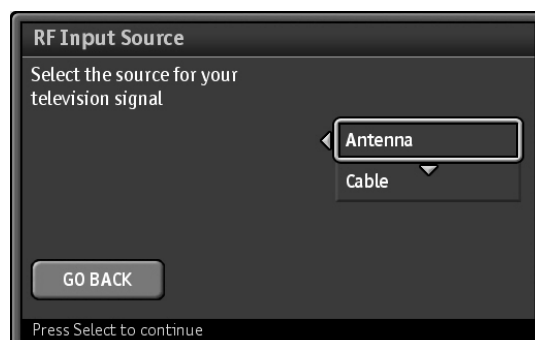
Daylight Saving

3. Press arrow keys to set the Daylight Savings, and press **Enter** button on the remote control to continue.

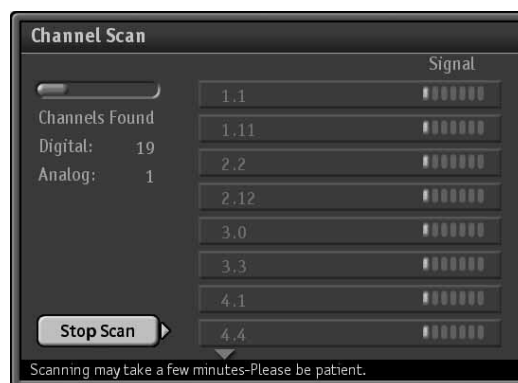


Input Source Selection

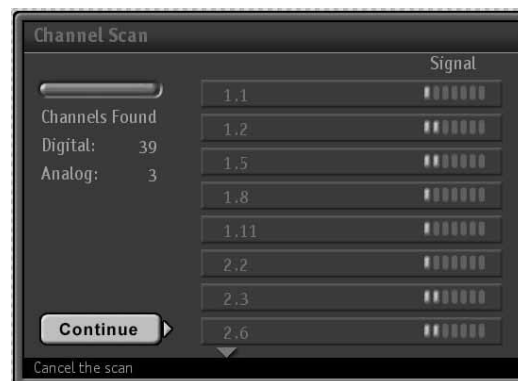
4. Press arrow keys to select the source for your TV signal, and press **Enter** button on the remote control to start scanning. If user selects Antenna, then the next setup wizard will be presented.



5. After all the available channels are stored, the channel list will appear.



6. Press **Enter** button on the remote control to continue.



7. Press **Enter** and start to watch TV.



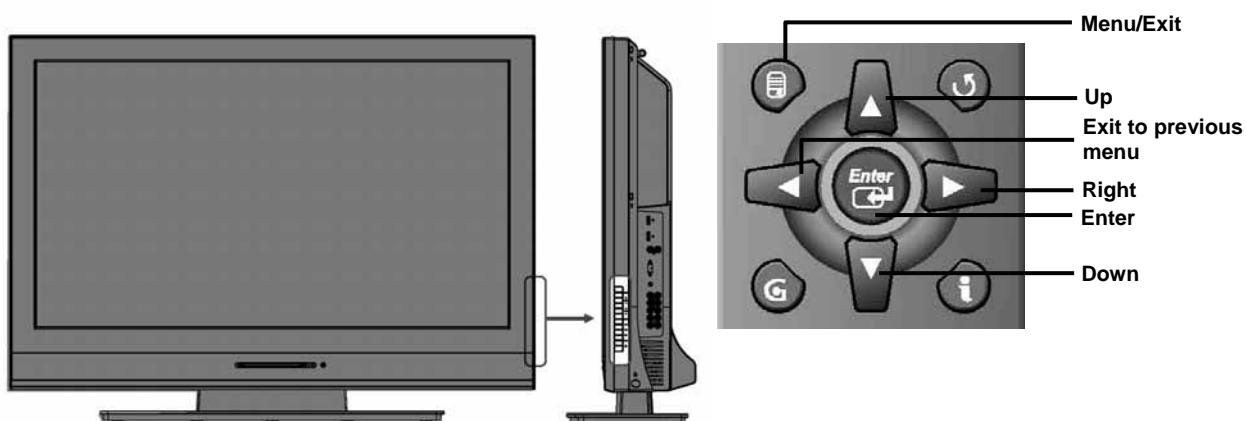
- ◆ **Scanning Channels** program may take a few minutes to complete.
- ◆ If you press **Enter** button on the remote control to **Stop Scan** process intermediately, we suggest you to scan channels once again next time.(refer to page 33)
- ◆ **Noted:** TV will record the channels now be found in the system.

Menu Navigation

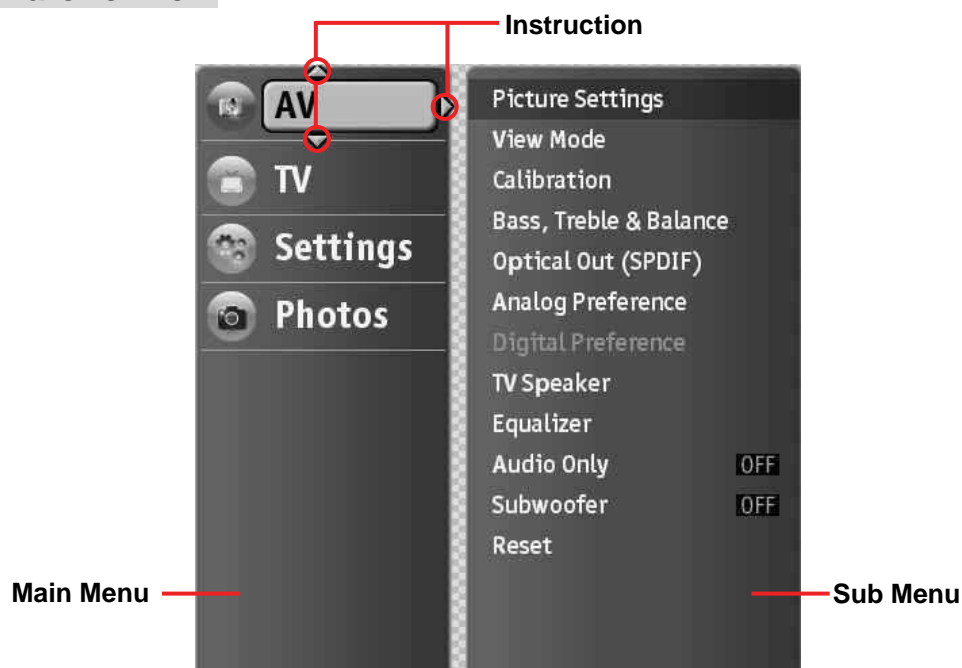
How to manage on-screen display (OSD) menu

You can change settings for the picture, audio, and other functions by using the OSD menu.

To activate OSD function by pressing **MENU** button either on remote control or on TV control button panel.



OSD menu overview

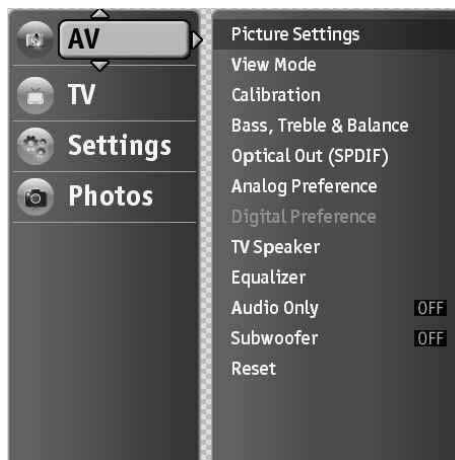


Instruction:

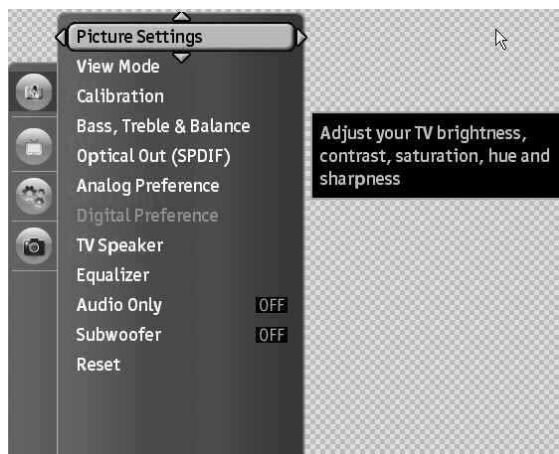
Use the ▲ ▼ ◀ ▶ arrow buttons on the remote control to highlight the menu item.

★ Use menu buttons on remote control to turn on OSD main menu and adjust the settings.

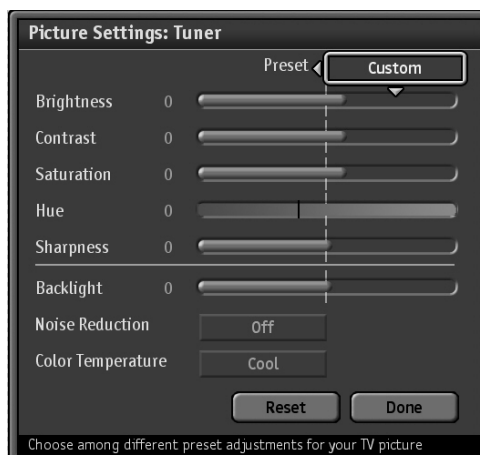
1. Press **MENU** button to display the main menu.

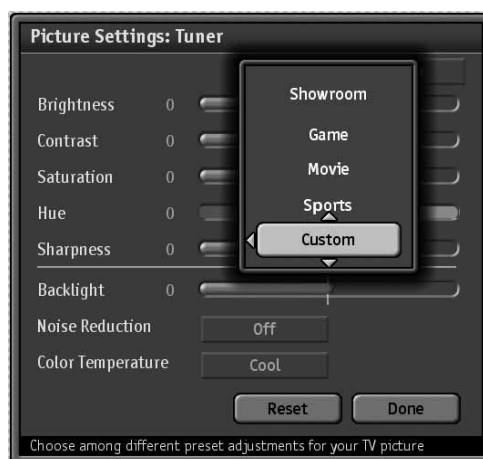


2. Use arrow keys to choose the desired item in order to adjust the setting parameter later.



3. Press **Enter** button to enter your selection.





4. Press **menu** button to quit OSD menu picture.

Changing Channels

After you finish scanning channels, and the scanned channels are stored. You can start to watch TV.

Using the channels buttons

1. Press **CH ▲ / ▼** buttons to change channels in sequence.
2. You can also press **0 - 9** numeric keys and **" • "** button to select a specific channel directly. Press **Enter** button to switch to your desired channel at once.
3. When you watch digital TV program, you can press **" • "** button once to display all possible channels on the same frequency in a list. Then press **" • "** button repeatedly to select a channel for TV to tune to.

Using the RTN buttons to switch back previous channel

To quickly switch between two channels, tune to one channel, then use the numeric keys to select the second channel. Then press the **RTN** button to quickly alternate between them.

Adjusting The Volume

Using volume control

Press the **VOL + / -** buttons to increase or decrease volume.

Using mute

At any time, you can turn off the sound using the **MUTE** button.

1. Press the **MUTE** button and the sound turns off.
2. Press **MUTE** again or **VOL +** buttons to resume audio back to the previous volume level.

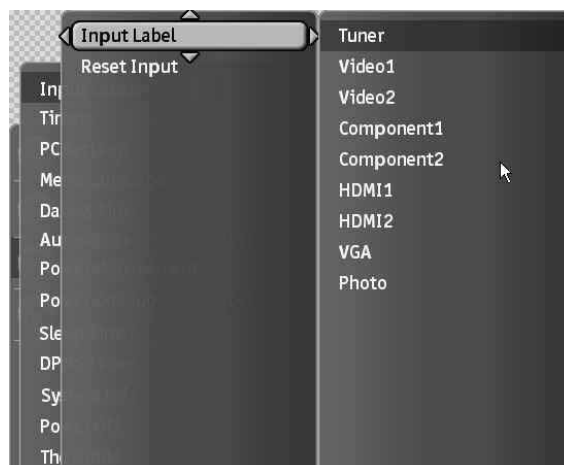


Selecting Input Source

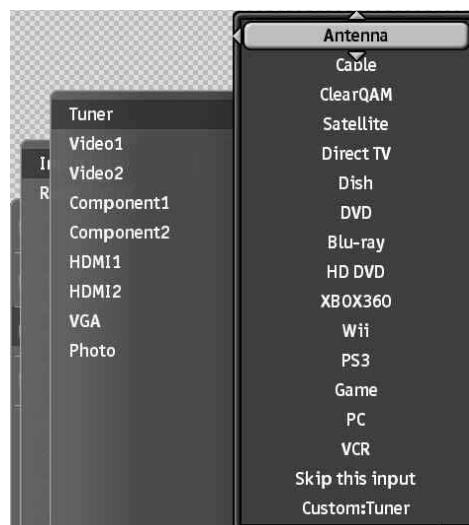
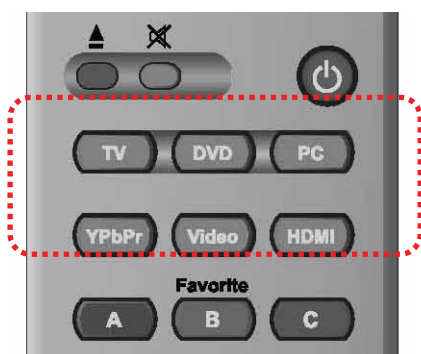
When you connected your antenna or external equipments to the TV, you need to select the correct input source by pressing source input directly (A) or roaming the OSD menu (B) to choose your desired source.

A. Press **YPbPr**, **PC**, **Video**, **HDMI**, **TV** buttons to select the source.

YPbPr	Direct to Component mode
PC	Direct to VGA mode
Video	Direct to Video1 or Video2 mode
HDMI	Direct to HDMI1 or HDMI2 mode
S-Video	No support
TV	Direct to Tuner mode
DVI	No support



B. Press arrows keys to choose your desired input source.



If there is no signal detected, you will see a warning message “ No Signal ” shows on the screen.

★ In Tuner / Video1 / Video2 / Component / HDMI1 / HDMI2 / Photo mode

While there is no signal detected in Tuner / Video / Component / HDMI modes, the system sustains 5 minutes then turn to screen saving mode. User can press any button to resume audio and video signal. Check if jacks are well connected then try again to press the **SOURCE** button and select the source mode correctly.

★ In PC (VGA) mode

While there is no signal detected in PC mode, the system sustains around 10 seconds then turn off the backlight in first phase. Until TV linger over 1 minute, TV system will completely shut down in automatically with LED light in **purple**. This situation will happen only if DPMS is set to be on. (refer to page 30)

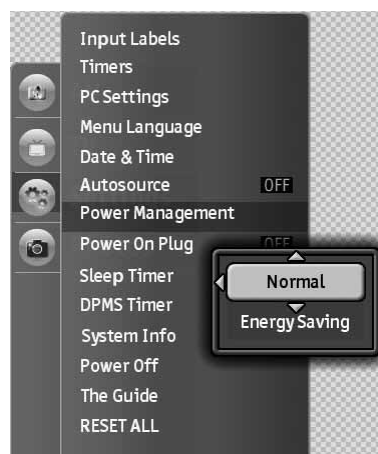
Controls & Adjustments

Power Consumption

Power consumption is a power management engine which helps to reduce power used for the LCD TV.

1. When access **Settings** sub-menu, press arrow keys to select **Power Management**.
2. Press arrow keys to select your desired mode and press Enter button on the remote to confirm.

Normal	The LCD TV set can be turned on soon and the maximum power consumption will be less than 30W.
Energy Saving	The power consumption is no more than 1W in the power off status. It takes about 15~20 seconds to turn on the LCD TV.

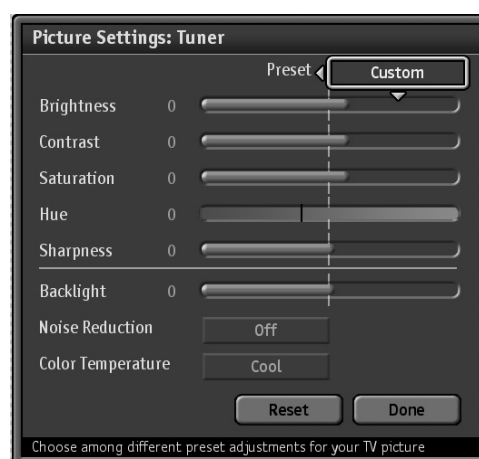


Picture Control

Adjusting picture settings

Adjust the picture settings to your preference with the following instructions.

1. When access **AV** sub-menu, press arrow keys to select **Picture Settings**
2. Press arrow keys to select your desired item and make adjustments.



3. Press arrow keys to set the value and press Enter button on the remote to confirm.



◆ Preset mode for Showroom, Game, Movie, and Sports are pre-configured. When you change the picture settings then the system will set to be Custom mode automatically.

Brightness	Darken or brighten picture brightness
Contrast	Increase or decrease picture contrast
Saturation	Deepen or lighten picture color
Hue	For skin tones to become reddish or greenish
Sharpness	Soften or sharpen image
Backlight	Adjust luminance of the backlight

Adjusting noise level

Adjust noise level in analog signal input.

Adjusting the color temperature

Adjust white balance of the picture.

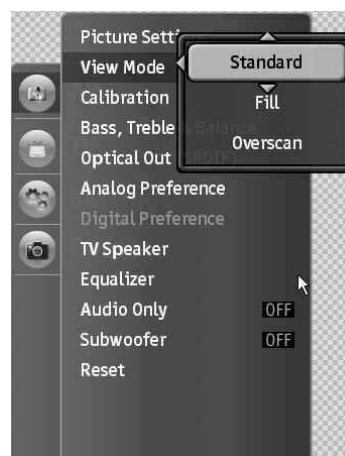
Cool	give cool sensation
Neutral	give nature white sensation
Warm	give warm sensation

Adjusting screen size

Adjust your TV screen to handle different picture formats. Three modes are available: Standard, Fill and Overscan. When in PC mode, only Standard and Fill modes are available.

1. When access **AV** sub-menu, press arrow keys to select **View mode**.
2. Press arrow keys to select your desired mode and press **Enter** button on the remote control to confirm.

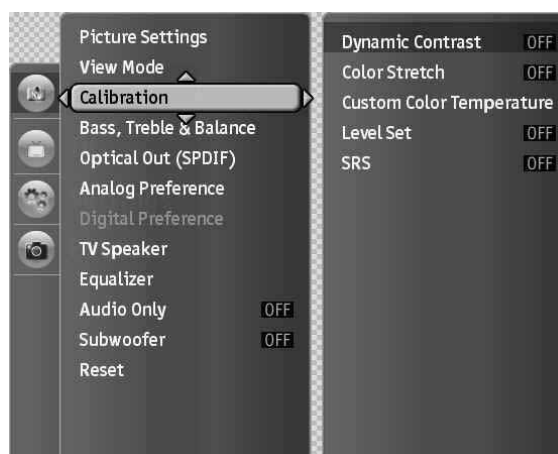
Tip: You can press **Screen Fit** button on the remote control directly to enter into View Mode for further adjustment.(refer to page 10)



Adjusting Calibration

Calibration including Dynamic Contrast, Flesh Tone Correction, Blue Stretch, HD-MFD, Custom Color Temperature, Level Set.

1. When access **AV** sub-menu, press arrow keys to select **Calibration**.
2. Press arrow keys and **Enter** button to select your preferred item to make adjustments.

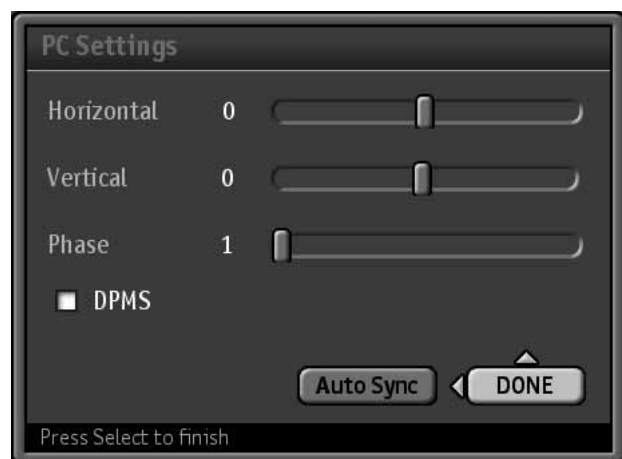


Adjusting PC settings

Make sure the PC and display TV has been well connected; also source input has been switched to PC (VGA) mode.

When access **Settings** sub-menu, press arrow keys to select **PC Settings** and make adjustment.

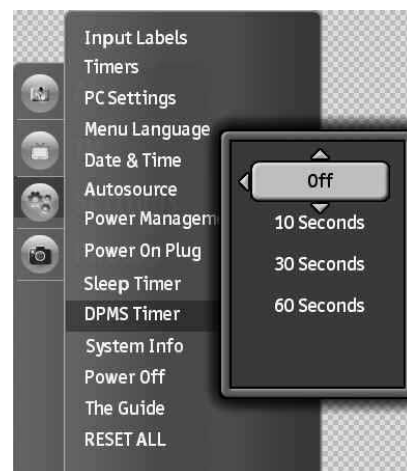
H-Position	Move the image in horizontal way and it may goes beyond display active area to produce a black bar in an opposite side.
V-Position	Move the image in vertical way and it may goes beyond display active area to produce a black bar in an opposite side.
Phase	Adjusts when characters have low contrast or when the picture flickers.
Auto Sync	System automatically adjust the best fit parameter at horizontal, vertical, and phase items in view of the current VGA input signal.
DPMS	When VGA is choose input source, press Enter button on the remote to enable or disable the display power management mode. While enable DPMS, TV will run power saving mode while no signal detected. (For more detail, please refer page 27)



DMPS Timer

Set the DPMS timer you want. Set the time before DMPS goes into effect.

When access **Settings** sub-menu, press arrow keys to and **Enter** button on the remote control to set the DPMS Timer.



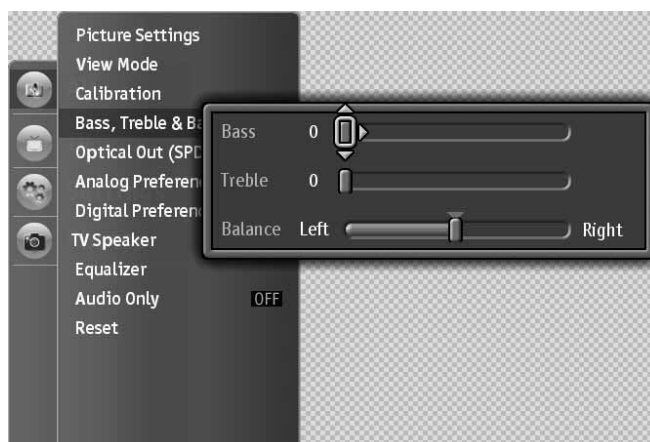
DPMS : Display Power Management Signaling

Sound Control

Adjusting sound quality

1. When access **AV** sub-menu, press arrow keys to select **Bass, Treble & Balance**.
2. Press arrow keys to select your desired item and make adjustments and press Enter button on the remote to confirm.

Bass	Adjust level of lower-pitched sound
Treble	Adjust level of higher-pitched sound
Balance	Adjust the sound balance between left or right speakers.

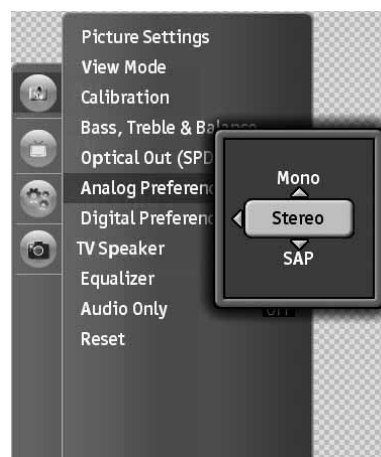


Choosing a Multi-Track Sound in Analog TV

Depending on the particular program being broadcast, you can listen to Stereo, Mono or a Secondary Audio Program (SAP). (The language program in SAP audio will be varied depends on broadcaster.)

1. When access **AV** sub-menu, press arrow keys to select **Analog Preference**.
2. Press arrow keys and **Enter** button on the remote to select your preferred mode.

Tip: You can press **INFO** button on the remote control to show if there is a multi-track sound in the current program. (refer to page 10 and 43)



Choosing a Multi-Track Sound in Digital TV

The digital TV with SAP function will allow broadcasting the 2nd language other than English for those supportive programs or video sources. You can choose audio to view its selection.

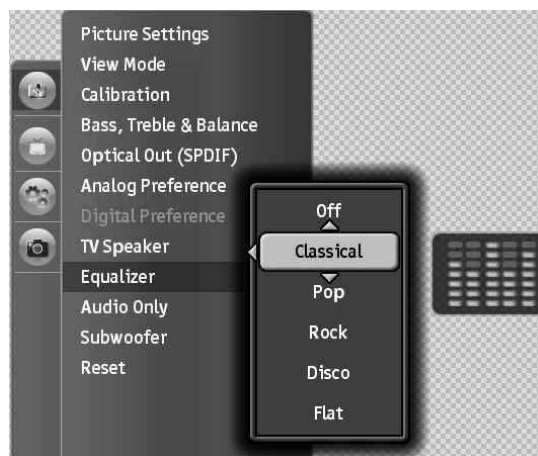
1. When access **AV** sub-menu, press arrow keys to select **Analog Preference**.
2. Press arrow keys and **Enter** button on the remote to select your desired language.

◆ If there is no SAP support program, TV will remain only English language as factory default setting.



Equalizer

1. When access **AV** sub-menu, press arrow keys to select **Equalizer**.
2. Press arrow keys and **Enter** button on the remote to select your desired mode.



Other sound control

★ Optical Out (SPDIF)

Select either PCM or AC3 audio if you are using the optical output from your TV to an external amplifier or sound system.

1. When access **AV** sub-menu, press arrow keys to select **Optical Out (SPDIF)**.
2. Press arrow keys and **Enter** button on the remote to select AC3 or PCM.



★ TV Speaker

1. When access **AV** sub-menu, press arrow keys to select **TV Speaker**.
2. Press arrow keys and **Enter** button on the remote to select ON or OFF.

TV Speaker	When TV Speaker is OFF. The system will turn off its sound. Press TV speaker ON to resume the sound or volume.
-------------------	--



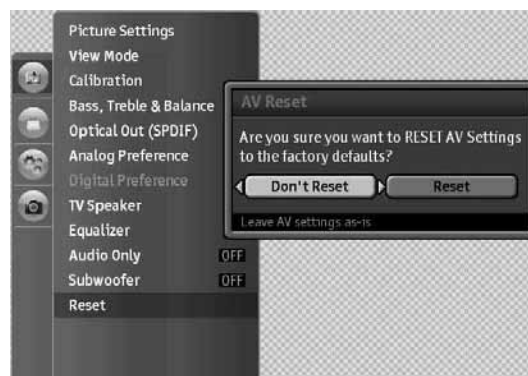
★ Audio Only

Turn off the LCD backlight and allow the current input's audio to remain "on" for listening.

1. When access **AV** sub-menu, press arrow keys to select **Audio Only**.
2. Press arrow keys and **Enter** button on the remote to select ON or OFF.

Reset Picture and Audio settings

1. When access **AV** sub-menu, press arrow keys to select **Reset**.
2. Press arrow keys and **Enter** button on the remote to reset the settings.

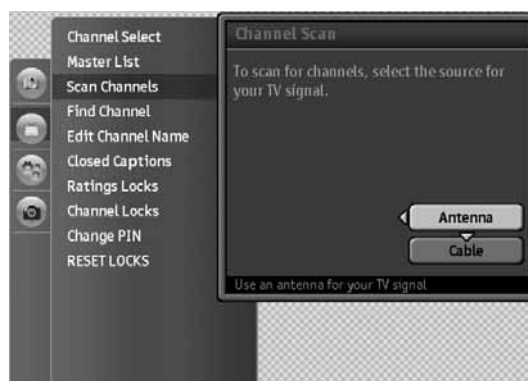


Channel Management

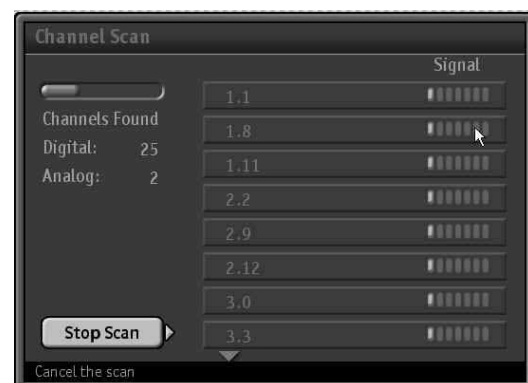
Channel Scan

Once "Channel Scan" is not completed at the stage of "Initial Setup" (see page 22), please ensure to follow the below procedures to reach a completion.

1. When access **TV** sub-menu, press arrow keys and **Enter** button on the remote control to select **Scan Channels**.
2. Press arrow keys and **Enter** button on the remote control to select Antenna or Cable scan and start to scan channels.



3. Once scan process is completed, all scanned channels will be stored automatically in the system then TV displays the last channel now be found.
4. Press **Enter** button on the remote control to finish.



◆ Once a PIN was set before, the system will require a PIN No. to be entered before perform "Channel Scans" function. Please enter "0000" as the default PIN setting.

Editing the channel list

During the scanning process, the system will found and stored the channels automatically and show them in a list.

1. When access **TV** sub-menu, press arrow keys to select **Master Channel List**.
2. To select “Mark All”, “Unmark All”, “Analog Only”, “Digital Only” or one specific channel, press arrow keys on the remote control to highlight your selected item. Press **Enter** button on the remote control to confirm.
3. If the stored channels in the list are more than one page, you can press arrow keys on the remote control to go to next page.

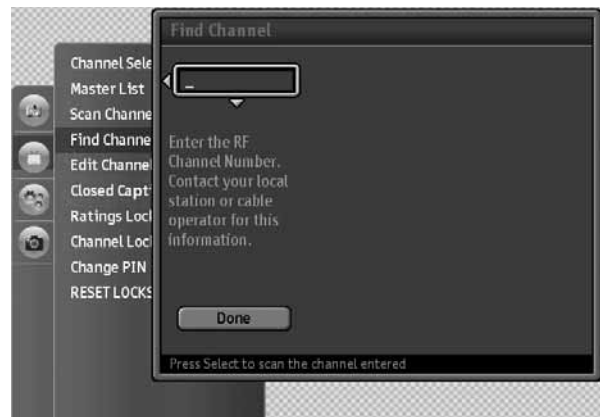
◆ When you press CH ▲ / ▼ buttons to change channels, the channel which are not filed in “Master Channel List” will be skipped.



Finding channel directly

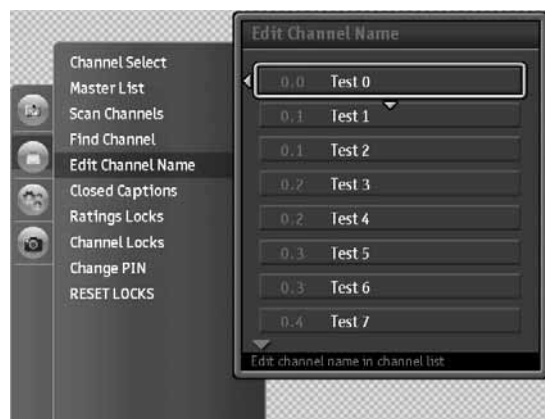
1. When access **TV** sub-menu, press arrow keys on the remote control to display **Find Channel** screen.
2. Use 0-9 numeric keys on the remote control and enter the channel numbers then press Enter to start scanning certain channel on a particular frequency.

◆ Once a PIN was set before, the system will require a PIN No. to be entered before perform “Find Channel” function. Please enter “0000” as the default PIN setting.



Channel Name Editing

1. When access **TV** sub-menu, press arrow keys on the remote control to display the channel list.
2. Press arrow keys on the remote control to choose which channel you want to edit and press **Enter** on the remote control to confirm.



- Press arrow keys on the remote control to choose a character with **Enter** button on the remote control once at a time until new name be confirmed at most 6 characters.



Channel Select

Select channel without CH▲ and CH▼ button.

- When access **TV** sub-menu, press arrow keys and **Enter** button on the remote control to select Channel Up or Channel Down.

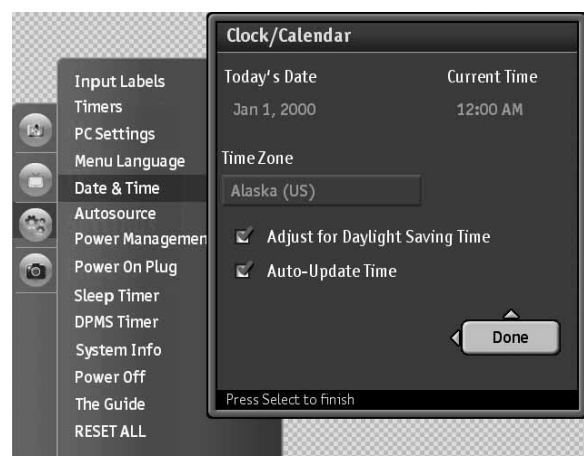


Timer Setting

Set Date & Time

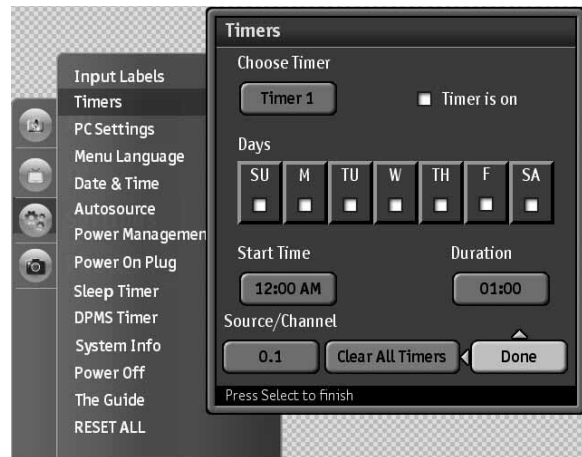
- When access **Settings** sub-menu, Press arrow keys to display **Date & Time** screen.
- Press arrow keys and **Enter** button on the remote control to set up **Today's Date**, **Current Time** and **Time Zone**.

- ◆ The current time will appear when you press the **INFO** button on the remote control. (refer to page10)
- ◆ When selecting "Auto-Update Time," the time is set according to the broadcast.



Setting the TV to turn on or off

1. When access **Settings** sub-menu, Press arrow keys to display **Timers** screen.
2. Press arrow keys and **Enter** button on the remote control to choose Timer 1 or Timer 2.
3. Press arrow keys and **Enter** button on the remote control to set up Days, Start Time, Duration, and Source/Channel to turn on and off. TV will automatically turn on at scheduled times at the date you selected.



◆ This function works when the clock setting is active. Please note Timer 1 takes precedence over Timer 2.

Setting the sleep timer

Activating sleeper timer to turn off TV automatically in a giving time period.

1. When access **Settings** sub-menu, press arrow keys and Enter button on the remote control to set up the time.



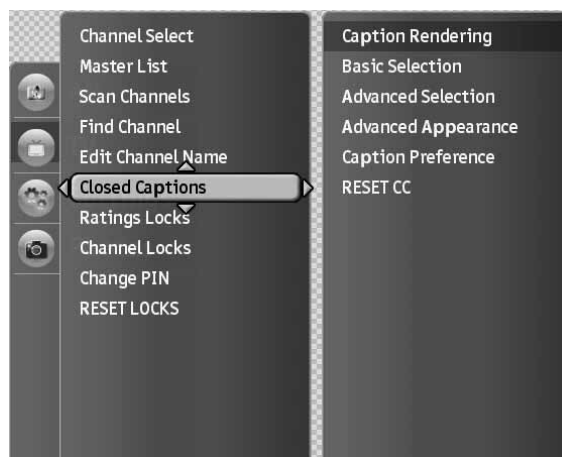
◆ Once the TV has been turned off; concurrently, the Sleep timer setting has been switch off .

Viewing Closed Caption

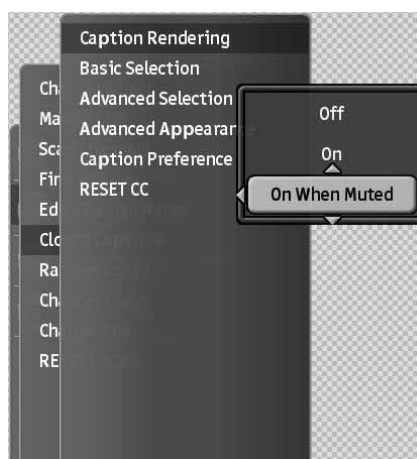
Selecting closed caption modes

This LCD-TV is capable of decoding and displaying closed caption content if supported by the program. This function serves those who are hearing impaired or foreigner.

1. When access **TV** sub-menu, press arrow keys to select **Closed captions**.



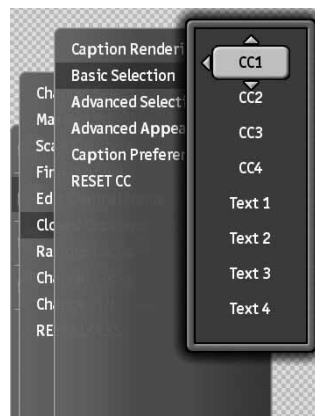
2. Press arrow keys to select **Caption Rendering** sub-menu.
3. Press arrow keys and **Enter** button on the remote control to choose Off, On or On When Muted.



Selecting analog closed caption options

It's the service aiming at delivering close caption on analog broadcasting program; it can be either from analog RF channel mode or any external signal input source.

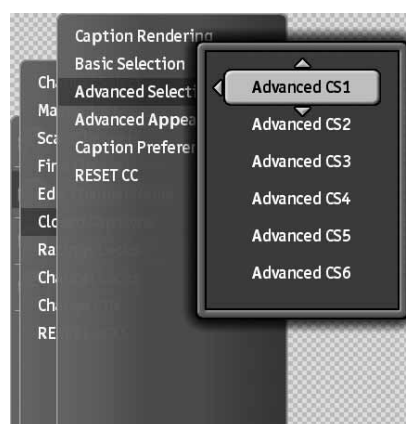
1. When access **Closed Captions** sub-menu, press arrow keys on the remote control to select **Basic Selection** sub-menu.
2. Press arrow keys and **Enter** button on the remote control to select CC1~CC4 or Text1~Text4.



Selecting digital closed caption options

It's the service aiming at delivering close caption on digital broadcasting program.

1. When access **Closed Captions** sub-menu, press arrow keys on the remote control to select **Advanced Selection** sub-menu.
2. Press arrow keys and **Enter** button on the remote control to select AdvancedCS1 ~ AdvancedCS6.



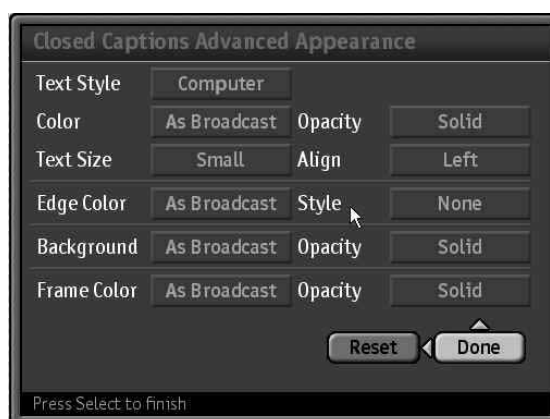
◆ Service1~6 may or may not be available depending on the broadcast.

Advanced Appearance

Allow for controlling Text Color, Text Opacity, Text Style, Text Size, Text Edge Color, Text Edge Style, Background Color, Background Opacity, Frame Color, Frame Opacity.

1. When access **Closed Captions** sub-menu, press arrow keys on the remote control to display Closed Captions Advanced Appearance screen.
2. Press arrow keys and **Enter** button on the remote control to choose your desired item and make adjustments.

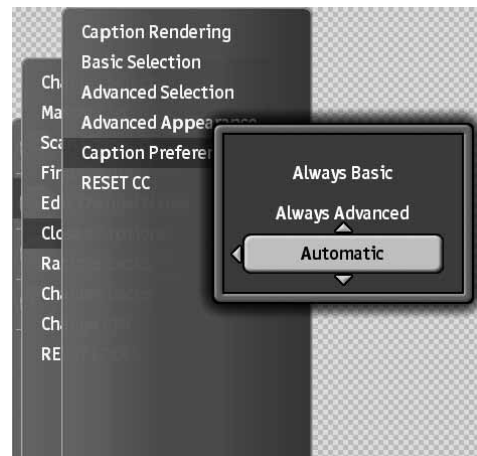
◆ “As Broadcast” means to keep the original setting as it is by broadcaster.



Caption Preference

It is the service aiming at delivering more closed caption options on digital broadcasting. The options are including basic, advanced and auto.

1. When access **Closed Captions** sub-menu, press arrow keys on the remote control to select **Caption Preference** sub-menu.
2. Press arrow keys and **Enter** button on the remote control to select your desired mode.



Reset Closed Captions

User decide to restore all Closed Caption conditions back to factory default settings.

1. When access **Closed Captions** sub-menu, press arrow keys on the remote control to select **RESET CC** sub-menu.
2. Press arrow keys and **Enter** button on the remote control to reset the settings.



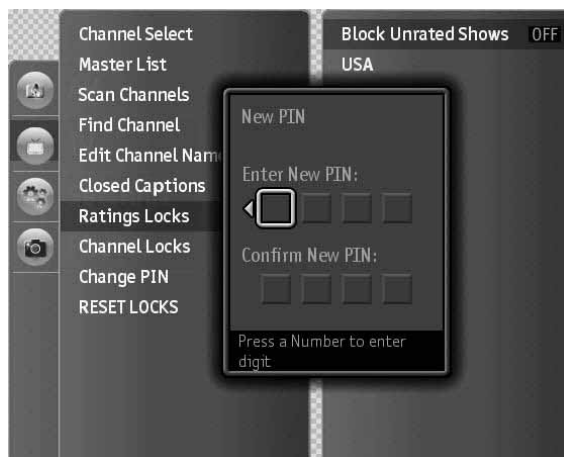
Ratings Locks

Using Lock Settings

Lock Settings will restrict some channels in accordance with the content and rating level to audience viewing. A password is required to turn on the Lock Setting. Please enter your personal password to access sub-menu. If you wish to activate Lock Setting at first time, please enter the default password, “0000”.

1. When access **TV** sub-menu, press arrow keys to select **Rating Locks**.
2. Press arrow keys on the remote control to access the PIN Entry menu and use 0-9 numeric keys to confirm your 4-digit password (the default password is “0000”.)
3. When access the **Rating Locks** sub-menu, press arrow keys to select your preferred item and make adjustments.

◆ You can also change the personal Password, please refer to page 41.



★ Block Unrated Shows

When TV programs are not explicitly labeled, user can select the function to lock or unlock the programs.

ON	Block all programs which are not labeling with a rating
OFF	Allow to display all programs ignore the rating lock.

★ US rating options

USA-TV Rating

Age-Based		Content-Based	
TV-Y	All children	FV	Fantasy Violence
TV-Y7	Directed to children age 7 and elder	D	Suggestive dialog
TV-G	General audience	L	Strong language
TV-PG	Parental guidance suggested	S	Sexual situations
TV-14	Parental strongly cautioned	V	Violence
TV-MA	Mature audience only		

USA-Movie Rating

N/A	Not rated
G	All children and general audience
PG	Parental guidance suggested
PG-13	Parental guidance for children under 13
R	Restricted viewing, parental guidance is suggested for children under 17
NC-17	No children under 17
X	Adults only

★ Canada rating options

CAN-French Rating

Canada Fre	
G	General programming
8 ans+	Not recommended for young children
13 ans+	Not recommended for ages under 13
16 ans+	Not recommended for ages under 16
18 ans+	Programming restricted to adults

CAN-English Rating

Canada Eng	
C	All children
C8 +	Children 8 years and older
G	General programming
PG	Parental Guidance
14 +	Viewers 14 and older
18 +	Adult programming

How to watch a TV program which system lock is on to block viewing

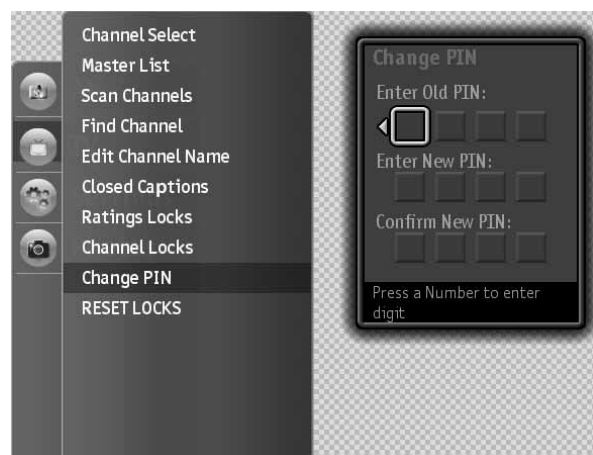
If TV is tuned to a restricted channel, the System Lock is activated and the following screen will appear. Enter correct password in 4-digit in order to unlock the channel and view this program successfully.



Setting up your personal password

The function of “Change PIN” allows you to set up a new password. The default password is “0000”.

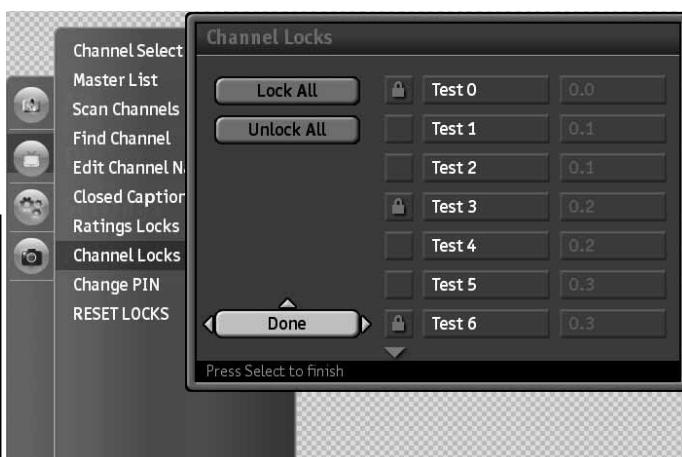
1. When access TV sub-menu, press arrow keys to display the **Change PIN** PIN entry.
2. Enter the old 4-digit password in the first row and then enter the new 4-digit password in the second row.
3. Confirm the new password once again in the third row.



Channel Locks

1. When access **TV** sub-menu, press arrow keys to display the **Channel Locks** PIN entry.
2. Press arrow keys and **Enter** button on the remote control to "Lock" or "Unlock" the channels.

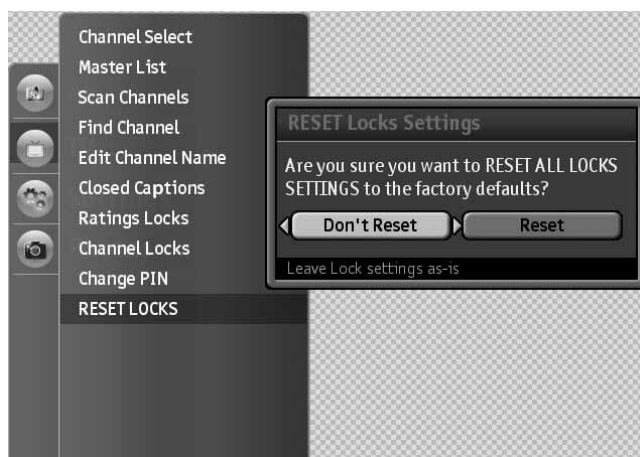
- ◆ A password is required before using the Channel Locks function.
- ◆ Press "0000," as factory default setting if you forget your setting PIN No..
- ◆ Please memorized your password and keep this manual properly well.



Reset Locks

1. When access **TV** sub-menu, press arrow keys to display the **RESET LOCKS** PIN entry.
2. Press arrow keys and Enter button on the remote control to reset the lock settings.

- ◆ A password is required before using the RESET LOCKS function.
- ◆ Press "0000," as factory default setting if you forget your setting PIN No..
- ◆ All lock settings are reset, except the PIN. To reset the PIN, please enter Reset All in Settings to resume settings back to the factory mode. (refer to page 41)



Other Controls

Menu Language

When access **Settings** sub-menu, press arrow keys and **Enter** button on the remote control to select your preferred language.

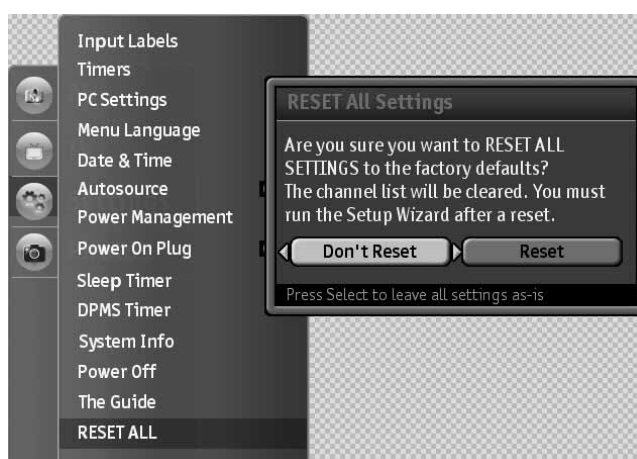


Resetting all settings

The user can reset all settings back to factory settings, including the channel list, all Program Info, Favorite channel lists, etc.

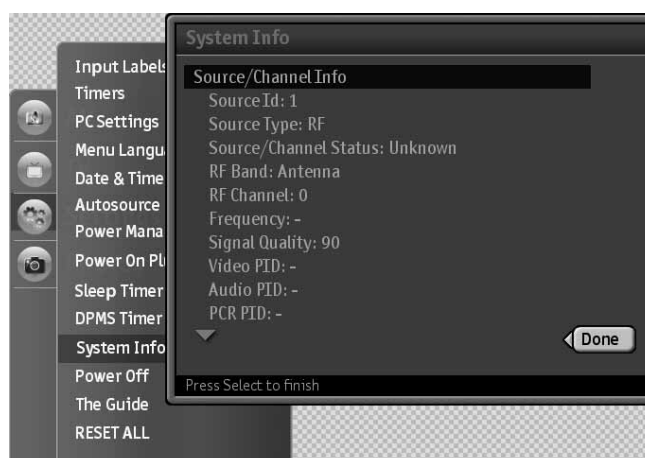
When access **Settings** sub-menu, press arrow keys and **Enter** button on the remote control to reset all settings.

- ◆ Once a PIN was set before, the system will require a PIN no. to be entered before perform "Reset ALL" function. Please enter "0000" as the default PIN setting.
- ◆ User is required to run the Setup Wizard after resetting all settings. (refer page 20)



Showing system info

When access **Settings** sub-menu, press arrow keys on the remote control to show the System Info.



Showing program info

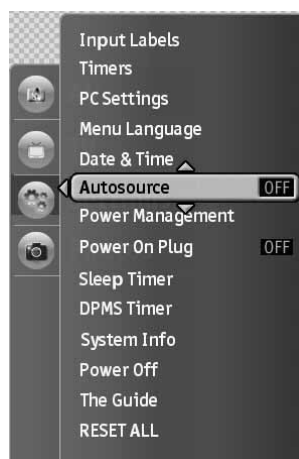
Press **INFO** button on the remote control to show the video information.



Auto Source

Autosource will detect a new incoming signal and automatically switch the input source to the connection of the new source's device.

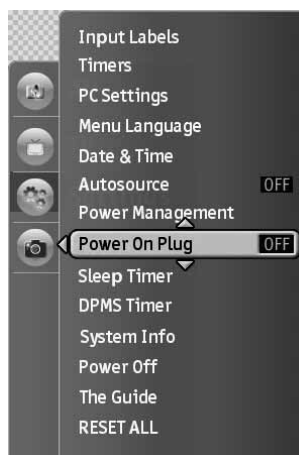
When access Settings sub-menu, press arrow keys and **Enter** button on the remote control to turn **Autosource** ON or OFF.



Power On Plug

Set TV power on memory when un-plug power cord and re-plug it.(ON/automatic power-on memory; OFF/no automatic power-on)

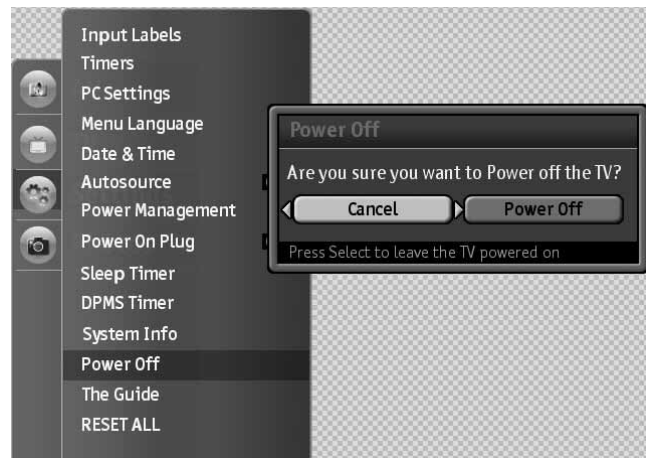
When access Settings sub-menu, press arrow keys and **Enter** button on the remote control to turn **Power On Plug** ON or OFF.



Power Off

User can use this function to turn off TV without POWER button.

When access **Settings** sub-menu, press arrow keys and **Enter** button on the remote control to power off the TV.



The Guide

Display an explanation of how to connect devices to the TV.

When access **Settings** sub-menu, press arrow keys a on the remote control to show menu explanation.



Quick Connect Guide for LCD HDTVs

1

Verify Box Contents

Power cable, remote control, two batteries, user manual and warranty card

Identify Connections

Please see chart to the right to determine video quality

Base Removal

See instructions in the user manual

2

Connect external source devices

Indicate devices used in the Notes column

Connect RF Antenna

If using a cable or settop box, skip channel scan

Power on TV

Connect power cable to wall outlet
Press power button on keypad or remote

Follow On-Screen Setup Menu

3

Power on external source devices

Press input button on remote
Use input list to select source device

Setup and verify external source devices




Enjoy your new Westinghouse TV!

*For DVD combo models insert DVD and go!

We recommend using HD programming for the best viewing experience!



Quick Connection Reference

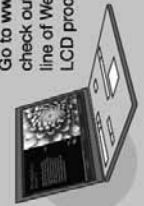
Source Devices									
SK/VK/TX Series	Connector Type	TV Input	Over-the-air	Cable/Satellite	DVD	Game Console	VHS	PC	Notes
	HDMI		N/A	Best	Best	Best	N/A	Best	
	YPbPr + LR Audio		N/A	Better	Better	Better	N/A	N/A	
	VIDEO + LR Audio		N/A	Good	Good	Good	Good	N/A	
	VGA + Audio Mini Jack		N/A	N/A	N/A	N/A	N/A	Best	
	ANT		Best	N/A	N/A	N/A	N/A	N/A	



Customer Service
866-287-5555



Go to www.wde.com to see which Westinghouse mounts are compatible with your LCD TV.



Go to www.wde.com to check out the complete line of Westinghouse LCD products.

DVD

Down Mix

Set the DVD Down Mix to Stereo or LT/RT.



Repeat

Press ENTER to scroll repeat option: CHAPTER, TITLE, ALL.



Demo Mode

Press select to set the DVD demo mode ON/OFF.

ON : Repeat playback

OFF : Turn off repeat playback



Subtitle

Press select to set the DVD subtitle function. (only available for DVD)



Auto Wake

Press select to set the Auto Wake ON/OFF.

ON : Turn on auto wake function.

OFF : Turn off auto wake function.



Audio Select

To select Audio language. (only available for DVD)



DVD Locks

Set up the DVD Rating Locks.



Reset DVD

Reset DVD to factory settings, clearing any adjustments you have made.

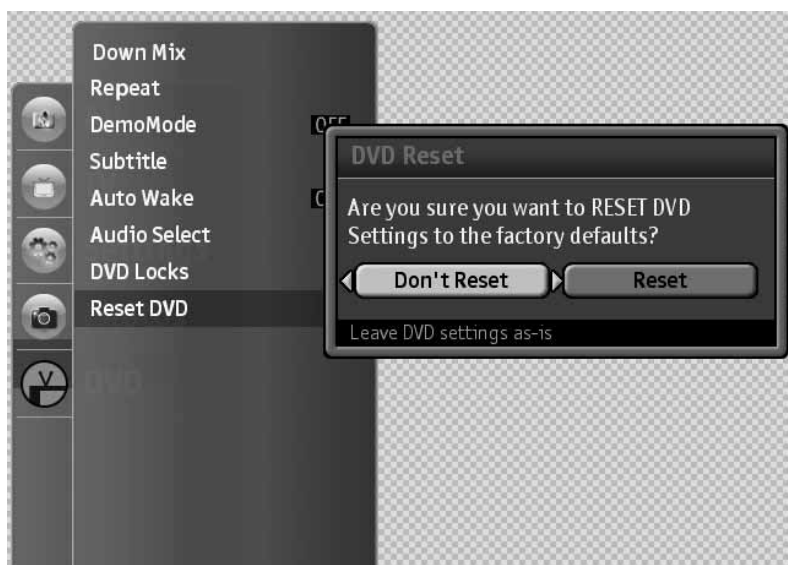


Photo View

Activating photo viewer

Photo view will allow you to display the image in JPEG format to the LCD TV. Before activating the photo viewer, please turn on TV first.

1. Insert a USB storage that contains jpg or jpeg files to the USB jack on TV or connect a digital camera via a USB cable to TV SERVICE port.
2. The system will read the files for a while and pop up the photo browser screen automatically. (The system will automatically switch to the photo viewing mode once there is a valid photo to be detected.)

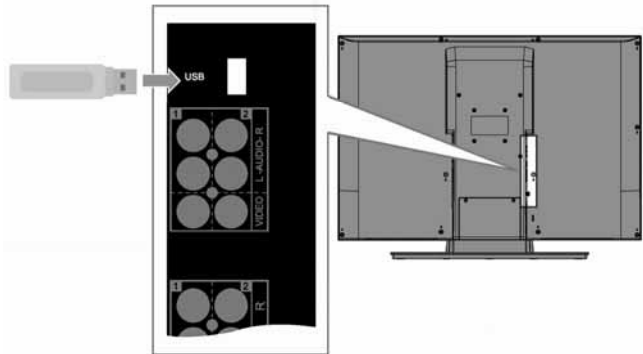
◆ Do not insert a USB storage before turning on TV. Such action may damage the USB storage or TV.

3. When user inserts a USB storage to the SERVICE port, the Photo Viewer application shall stay in the current mode until it searches for valid photos to switch photo viewer mode.

◆ Do not remove the USB storage while TV is searching the photos. Such action may damage the USB storage or TV.

4. If there are photos detected, the photo viewer will show photos in a thumbnail view mode by covered a certain amount of photos in a grid form.

◆ If there is no photo detected, the screen will show a message that "No valid photos on USB media"



Thumbnail view mode

The thumbnail view mode shall display either 10 (5 x 2) or 21 (7 x 3) tiny photos per screen and 10 photos are the design default.

1. When Photo Browser screen is displayed, press **INFO** button on the remote control to highlight the toolbar.
2. Once USB has been connected to show photos. The system set to display a preview mode in 10(5x2) thumbnail photos per screen. If you wish to display 21(7x3) photos instead of 10(5x2), press **►** and **OK** buttons on the remote control to choose "thumbnail view".



★ Using tool bar

Information toolbar is available in the lower place of thumbnail photos

Showing picture information

Photo information include: Camera make + model, Resolution, File size, Shutter speed, ISO value, Flash information, Exposure mode, Bias.

1. When toolbar is highlighted, select the information icon and press **OK** button on the remote control to display the information for the current photo (if available).
2. Press **OK** button again to quit from information window and resume to toolbar function.
3. If user intends to view and display other picture, press **▲** button on the remote control and then use the **◀▶▲▼** buttons on the remote control to select one. (repeat step 1 and 2 to show other selected picture information.)



Rotating picture

When toolbar is highlighted, press **◀** or **▶** buttons on the remote control to select CW(clockwise) or CCW(counterclockwise) rotate icon and press **OK** button on the remote control to rotate the selected picture 90 degrees in a chosen direction.



Watching TV

1. When toolbar is highlighted, press ◀ or ▶ and **OK** buttons on the remote control to select watch TV icon and start to watch TV.
2. If you want to switch back to photo view mode, press **SOURCE** button on the remote control to switch to photo USB mode.(refer to page 28)



IMPORTANT

- ◆ The system support connection to USB flash memory sticks or connection direct to digital camera and card reader via USB. The system support all variations of USB 1.x and 2.0.
- ◆ USB mass storage devices that are not formatted as FAT32 may not detected by the system. (Due to the various brand of USB, the system may not support all the USB mass storage devices.)
- ◆ The photo viewer only supports thumbnails that satisfy the following criteria:
 - >Baseline JPEG
 - >8-bit per component
 - >Monochrome or color Y:Cb:Cr=4:2:2 or Y:Cb:Cr=4:2:0
 - >DCT-based, non-differential, Huffman-coded
- ◆ Pictures modified using a PC may not be displayed on TV.
- ◆ Image size limited to 8912 pixels in either direction.
- ◆ A maximum of 3000 photos on a media device is supported with a maximum supported photo pixel count of 67.1 Megapixel per image.

Full screen view mode

In the full screen view the system displays the selected image in the largest size possible while preserving the aspect ratio. This may require letter-boxing or pillar-boxing the image.

1. Press ▲, ▼, ◀ or ▶ buttons on the remote control to select a picture and Press **OK** button on the remote control to display the picture in the largest size.



2. Press ▲, ▼, ◀ or ▶ buttons on the remote control to display next or previous picture.



3. Press **INFO** button on the remote control to recall photo toolbar. Toolbar shall be available for adjusting photo with pan, zoom out, zoom in, rotation, slideshow, control, info and thumbnail browser functions. Press ◀ or ▶ and **OK** buttons on the remote control to adjust the setting. The pan and zoom out functions are only available while image is zooming in.



★ Using tool bar

Information toolbar is available in the lower place of thumbnail photos

Showing picture information

1. Press **INFO** button on the remote control to recall photo toolbar. Press ◀ or ▶ buttons on the remote control to select the information icon.
2. Press **OK** button on the remote control to display the information for the current photo (if available). Press ▲ or ▼ buttons on the remote control and select other picture. Press **OK** button on the remote control again to quit from information window.



Rotating picture

1. When photo toolbar is displayed, press ◀ or ▶ buttons on the remote control to select the rotate icon.
2. Press **OK** button on the remote control to rotate the selected image 90 degrees in a chosen direction.
3. Press ▲ or ▼ buttons on the remote control and select other picture.



Zoom in or Zoom out picture

1. When photo toolbar is displayed, press ◀ or ▶ and **OK** buttons on the remote control to select zoom in icon and enlarge the picture in a center view. Also the pan function is now available for further adjustment.
2. Press ◀ or ▶ and **OK** buttons on the remote control to select the pan-and system will switch to pan mode. Press **OK** button again and be back to the previous screen.



- ◆ When zoom out is selected, the system will retreat back to the full view size of photo gradually. And if picture has been restored back to full screen size that pan and zoom out function will become not available concurrently.

Running slideshow

This feature will allow user to display a sequence of photos in your USB adapter. Also, the slide show setting will determine a time interval between two photos to display on TV screen.

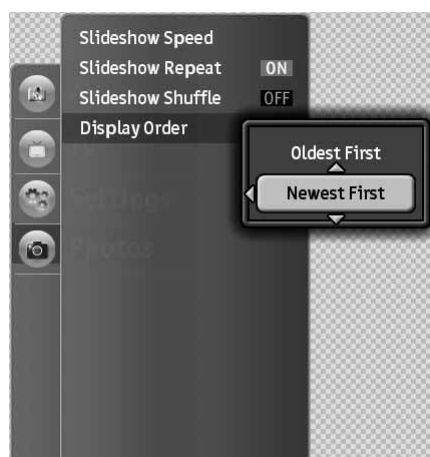
1. Press ◀ or ▶ buttons on the remote control to select the slideshow icon.
2. Press **OK** button on the remote control to start the slideshow. The slideshow will display all photos until it reaches to the end of entire album. Once if the repeat setting has been triggered, it will run all photos in a circle. If not, the screen will stay on the last photo instead (refer page 71 for photo settings.).
3. You can select pause tool and press **OK** button on the remote control to stop the slideshow. The photo viewer stays on the full screen mode of the current photo.
4. Press **OK** button on the remote control again and continue the slideshow.



Photo settings

Photo setting will allow user to adjust the setting of photo-viewer. And the change will take effect immediately.

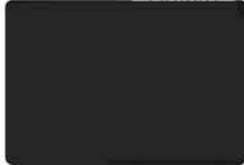
When access **Photos** sub-menu, press arrow keys and **Enter** button on the remote control to select your desired item and make adjustments.



Slideshow speed	The two settings for Slideshow speed are "Slow" and "Fast". The recommended values for slow is 10 seconds between pictures and fast is 5 seconds between pictures. These values should be manufacturer configurable.
Slideshow Repeat	The Slideshow repeat controls if the slideshow stops when all the pictures have been displayed or continues to show the pictures unless explicitly stopped by the user.
Slideshow Shuffle	If the shuffle control is "On", the photos are presented to the user in a random order in the slideshow. The shuffle control does not affect how the photos are displayed in the thumbnail or full screen mode and only affects the slideshow.
Display Order	The two settings for display order are "Newest First" and "Oldest First".

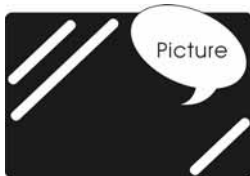
Troubleshooting

No picture or sound.



- Check if power cord is well connected with TV and power outlet.
- Verify if it is invalid source selected.
- Make sure you select the correct source mode which match the connection with external devices correctly.

No picture from AV.



- Make sure the BRIGHTNESS is properly adjusted.
- The florescent lamp may have reached its life end.
Contact an authorized service center to extend a service.
- Make sure the video source is plugged into the composite video-in port.

No sound.



- Make sure the volume does not set to minimum.
- Make sure the "MUTE" button is not mis-pressed.

No picture or sound, just noise.



- The signal strength may be weak.
- Program provider may be experiencing difficulties.
- Check if cable connection is loose or not.

Picture is not clear.



- The signal strength may be weak.
- Program provider may be experiencing difficulties.
- Check if cable connection is loose or not.

Picture turns pale or improperly tinted.



- Check the Hue, Saturation and Color setting parameter and apply necessary adjustment.
- Restore to factory default setting and check picture quality again.

Picture is too dark.



- Select a different APC mode.
- Check the Brightness in Picture Settings.
- The fluorescent lamp may have reached its life end.
- Contact an authorized service center to extend a service.

Remote control does not work.



- Install new batteries.
- Make sure the remote sensor window doesn't covered in any means.
- Make sure the remote is tuned to the correct device input (if it's universal remote uses to command the TV. (Noted, universal remote is excluded from standard accessory pack.)

Stripes on the screen or colors fade.



- It probably interferes with any electronic appliances.
- It probably interferes between video source cable and the power cable. Please separate it apart.
- Make sure power and video cable don't wind around each other.
- Check the Hue, Saturation and Color adjustments.

Picture is not sharp.



- The signal strength may be weak.
- Program provider may be experiencing difficulties.
- Check if cable connection is loose or not.
- Check the Sharpness parameter in Picture Settings.

Picture shifts.



- The signal strength may be weak.
- Program provider may be experiencing difficulties.
- Check if cable connection is loose or not.

Picture shows multiple image or ghosts effect.



- The signal source may be weak.
- Check if cable connection is loose or not.

Picture is spotted.



- There may be interfered with any electronic appliances nearby.

PC input preset timing table

Mode No.	Mode Name Resolution	H.Freq.(KHZ) V.Freq.(HZ)	H. Polarity V. Polarity	Pixel CLK (MHZ)	Hor. Total CLK No.	Hor. Display CLK No.	Hor. Back Porch CLK No.	Hor. Sync. Width CLK No.	Vert. Total Line No.	Vert. Display Line No.	Vert. Back Porch Line No.	Vert. Sync Width Line No.
1	720*400@70	31.469 70.087	- +	28.322	900	720	54	108	449	400	35	2
2	640*480@60	31.469 59.941	- -	25.175	800	640	48	96	525	480	33	2
3	640*480@67	35.000 66.667	- -	30.24	864	640	96	64	525	480	39	3
4	640*480@72	37.861 72.809	- -	31.5	832	640	120	40	520	480	20	3
5	640*480@75	37.5 75.0	- -	31.5	840	640	120	64	500	480	16	3
6	800*600@56	35.156 56.250	+ +	36.0	1024	800	128	72	625	600	22	2
7	800*600@60	37.879 60.317	+ +	40.0	1056	800	88	128	628	600	23	4
8	800*600@72	48.077 72.188	+ +	50.0	1040	800	64	120	666	600	23	6
9	800*600@75	46.875 75.0	+ +	49.5	1056	800	160	80	625	600	21	3
10	832*624@75	49.72 74.55	- -	57.28	1152	832	224	64	667	624	39	10
11	1024*768@60	48.363 60.004	- -	65.0	1344	1024	160	136	806	768	29	6
12	1024*768@70	56.476 70.069	- -	75.0	1328	1024	144	136	806	768	29	6
13	1024*768@75	60.023 75.029	+ +	78.75	1312	1024	176	96	800	768	28	3
14	1280*720@60	44.76 60.0	- +	74.481	1664	1280	192	136	746	720	22	3
15	1280*800@60	49.68 60.0	- +	83.462	1680	1280	200	136	828	800	24	3
16	1280*1024@60	63.72 60.00	- -	109.47	1718	1280	238	156	1062	1024	32	3
17	1360*768@60	47.712 60.015	+ +	85.5	1792	1360	256	112	795	768	18	6
18	1366*768@60	48.96 60.0	+ -	73.25	1496	1366	58	32	816	768	41	5
19	1920x540@60	33.75 60.05	+ +	74.25	2200	1920	148	44	1125	540	15	5

* The resolution and frequency displayed on the screen may not exactly the same as it is in this list.

Specifications

ITEMS		SPECIFICATIONS	
Panel	Screen Size	40" TFT-LCD Panel	
	Aspect Ratio	16 : 9	
	Resolution	1920x1080	
	Display colors	16.7 M	
	Brightness (center)	550 cd / m ² (typ.)	
	Viewing Angle (CR>10)	178° Hor. / 178° Ver. (typ.)	
	Response Time (GTG)	6.5 ms (typ.)	
TV Function	Broadcasting System	Analog : NTSC M / N	Digital : ATSC/Clear QAM
	Receiving Channel	Analog : PLL181Ch., CATV 125Ch	Digital : 54M Hz~864M Hz
	Sound System	Analog : Multi-channel TV Sound	Digital : Multi-Track Sound
	Resolution	Analog : 480i	Digital : 1080i, 720p, 480p, 480i
	Data Broadcasting	Close Caption , V - Chip	
Video Input	Composite Signal	Video.	x 2
	Component Signal	Y Pb Pr	x 1 (720P / 1080i , HDTV ready)
	HDMI Connection	HDMI	x 2
	VGA Connection	D-Sub 15 pin	x 1
	Scanning Frequency	f _H = 31.5 ~ 60KHz / f _V = 56 ~ 75Hz	
Audio Input	Audio 1	Composite	
	Audio 2	Component	
	Audio 3	HDMI to DVI	
	Audio 3	PC jack in	
Audio Output	Speaker (build-in)	10W + 10W (Average)	
	RCA Out	Left / Right	
	Digital Audio Out	SPDIF/ Subwoofer out	
Feature	Function Keys	Power ,Source ,Up/Down(Channel) ,+/- (Volume) ,Menu	
	Video Performance	3D Comb-filter , 3D De-interlace , Aspect Ratio Control (ARC) , Auto Picture Control, Noise Reduction	
	Other Control	Sleep Timer, Timer on, Timer off	
Power	Power Supply	AC 100V ~ 240V , 50 / 60Hz	
	Power Consumption	< 300 W	
Wall Mount		For use only UL Listed Wall mount Bracket or L4030 Wall Mount Bracket.	
Dimension		W x H x D	988 mm * 726 mm * 241 mm
Weight (net)		Without Accessories	28 kg

The specification and measurement of TV set may varied depends on your purchasing.
We reserve the right of any corrections or errors in this manual.