

SANYO

INSTRUCTION MANUAL

LCD TV

LCD-19E3

LCD-26E3

LCD-32E3



LCD-42E3



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CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN	THIS SYMBOL INDICATES THAT DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITH THIS UNIT. 
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.	THIS SYMBOL INDICATES THAT THERE ARE IMPORTANT OPERATING AND MAINTENANCE INSTRUCTIONS IN THE OWNER'S MANUAL WITH THIS UNIT. 

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

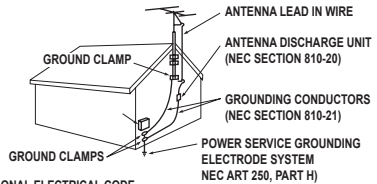
IMPORTANT SAFETY INSTRUCTIONS

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 a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other 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 at the point where they exit from the apparatus.
11. Only use the attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/appliance 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 appliance has been damaged in any way, such as when a power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built up static charges. In the U.S. Selection 810-21 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrodes.



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

EXAMPLE OF ANTENNA GROUNDING ACCORDING TO NATIONAL ELECTRICAL CODE, ANS/NFPA 70

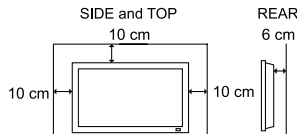


NEC- NATIONAL ELECTRICAL CODE

" Note to CATV system installer:

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

17. Wall or Ceiling Mounting - The product should be mounted to a wall or ceiling only as recommended by the manufacturer and listed by an independent laboratory (such as UL).
18. "Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus."
19. When the MAINS plug is used as the disconnect device, the disconnect device shall remain readily operable.
20. Install the LCD TV in a proper position. If not, it may result in a fire hazard.
21. Provide appropriate space on the top, sides and rear of the LCD TV cabinet for allowing air circulation and cooling the LCD TV.
22. Minimum clearance must be maintained. If the LCD TV is to be built into a compartment or similarly enclosed, the minimum distances must be maintained. Do not cover the ventilation slot on the LCD TV. Heat build-up can reduce the service life of your LCD TV, and can also be dangerous.



FCC INFORMATION

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

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

CAUTION: FCC Regulations state that improper modifications or unauthorized changes to this unit may void the user's authority to operate the unit.

ENERGY STAR® User Information

ENERGY STAR User Information Statement: the factory default settings of this television meet ENERGY STAR requirements. Changing Picture Settings may increase energy consumption, possibly beyond the limits required for ENERGY STAR qualification.

To ensure your television is operating at optimal energy efficiency, select default picture mode. Default picture mode is recommended for normal home use.

TRADEMARKS



"As an Energy Star® Partner, Sanyo Manufacturing Corporation has determined that this product meets the Energy Star® guidelines for energy efficiency."



This symbol on the nameplate means the product is Listed by Underwriters' Laboratories Inc. It is designed and manufactured to meet rigid U.L. safety standards against risk of fire, casualty and electrical hazards.

PROTECTING THE LCD SCREEN

The screen can be damaged if it is not maintained properly. Do not use hard objects such as hard cloth or paper. Do not use excessive pressure when cleaning the screen; excessive pressure can cause permanent discoloration or dark spots.



NEVER spray liquids on the screen.

! HANDLING PRECAUTIONS

- Handle by the cabinet only. Never touch the screen when handling.
- Excessive pressure on the screen can cause permanent discoloration or dark spots.
- Handling damage is **not** covered under warranty.

! CONTAINS MERCURY LAMPS, DISPOSE OF PROPERLY



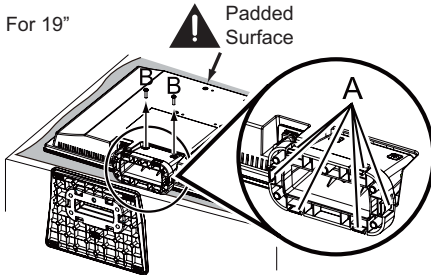
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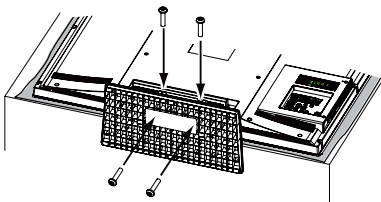
ASSEMBLY-ATTACHING THE TV STAND

NOTE: Skip this Step if you are wall-mounting the unit.

Tool Needed: Screwdriver remove screws from stand mounting inserts before installing stand base.



For 26" / 32" / 42"



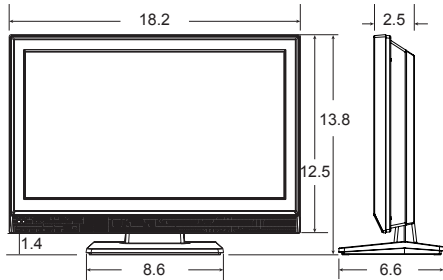
Hello! I'm your new Sanyo Wide-screen LCD HDTV. Don't plug me in just yet! Please read this manual carefully so you can learn about my many features, such as, my integrated HD Tuner, PARENT control, Digital Channels, my PC Input and many more...

INSTALLATION

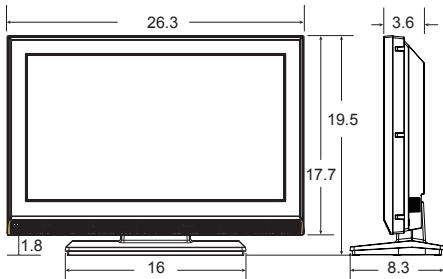
POSITIONING THE LCD HDTV

! Always use a firm-flat surface when positioning your HDTV. Do not position the unit in a confined area. Allow adequate space for proper ventilation.

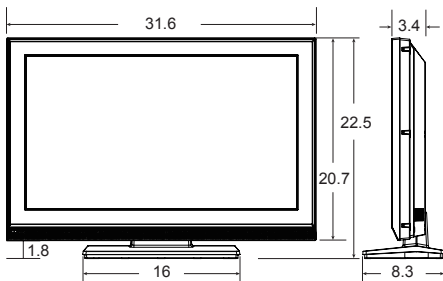
19"



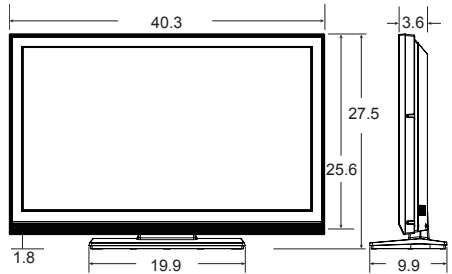
26"



32"



42"



NOTE: All dimensions are in inches.

WALL MOUNTING (OPTIONAL)

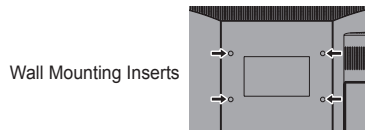
Use the screws that are threaded into the stand-mounting inserts on the back of your HDTV to secure it to a wall mounting kit.

NOTE: 1. Wall Mounting kit is not supplied.
2. Wall mounting kit shall be able to sustain at least 3 times of set weight.

VESA standard interface:

19" TV 100 x 100mm ; 26" TV 100 x 200mm

32" TV 200 x 200mm ; 42" TV 200 x 400mm



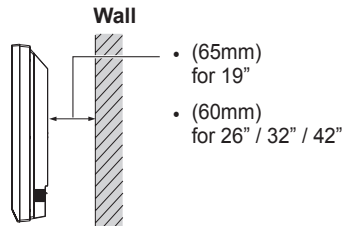
Mounting screws measurements:

19" TV

M4 Diameter, Length - 13mm (min.); 16mm (max.)

26" / 32" / 42" TV

M6 Diameter, Length - 13mm (min.); 16mm (max.)



GETTING STARTED

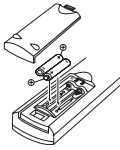
1 Install supplied batteries in the Remote.




RECAUTIONS

Do not use rechargeables together with dry cells, other types, mixed new and old, or batteries with different charge levels.

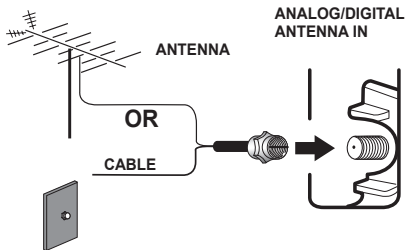
Do not expose the Remote or batteries to moisture or heat or such as sunshine, fire, or the like.



Match the “+” and “-” signs on the batteries with marks inside the Remote Control.

 Please recycle used up rechargeable batteries.

2 Antenna Connection for off-air signals.



THE TUNER IN THIS HDTV CAN RECEIVE:

a. Digital and Analog off-air signals from an antenna.

OR

b. Analog or Clear QAM cable channels from a direct Cable TV connection.

NOTES:

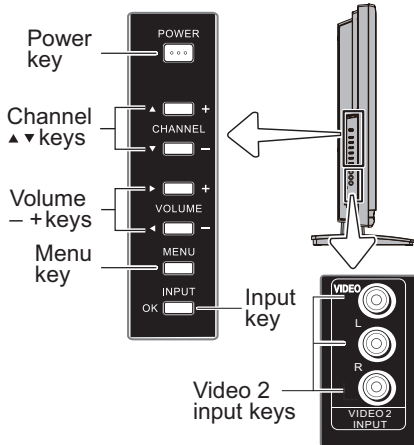
You must use the on-screen MENU to Search for Clear QAM Cable channels. (see page 13)

For the best picture, connect your Cable box or Satellite receiver to HDMI1, 2, 3 or component (VIDEO3) jacks.

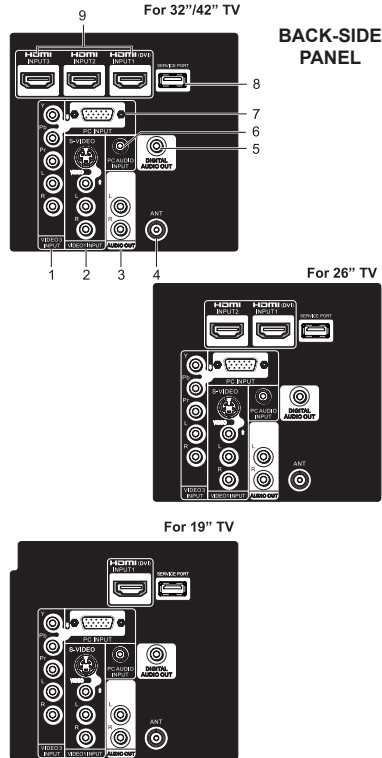
This HDTV can receive ANY unscrambled RF signal being broadcast.

GETTING STARTED-CONTROLS AND JACKS

LEFT-SIDE PANEL



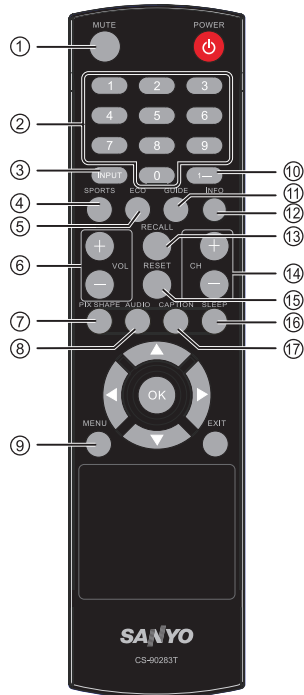
BACK-SIDE PANEL



- ① **Component Video Input VIDEO3 (YPbPr), PAGE 9** - Connect digital video equipment to the Video Green (Y), Blue (Pb), Red (Pr) jacks, and matching Audio White (L) and Red (R) jacks. These jacks will automatically detect the type of signal being received.
- ② **S-Video Input (VIDEO1), PAGE 9** - To enhance video detail use the S-Video jack instead of the Video jack, if available on your external equipment. (An S-Video connection will override a connection to the Video1 input jack.)
- ③ **Stereo Audio Out (L/R) Jacks, PAGE 11** - Connect stereo audio equipment to these jacks.
- ④ **Analog / Digital Antenna Input, PAGE 6** - Connect an RF antenna or Analog Cable system to this jack.
- ⑤ **Digital Audio Output (Coaxial), PAGE 11** - Use a Phono-Type (Coaxial) Digital Audio Out Cable to connect Digital Audio Output to an advanced stereo home theater system equipped with Dolby® Digital.
- ⑥ **AV Input (VIDEO1 or VIDEO2), PAGE 9** - Connect analog video equipment here.
- ⑦ **PC Input (15-Pin Monitor and Mini STEREO AUDIO), PAGE 12** - Connect computer and audio outputs to these terminals.
 - MONITOR RGB (D-SUB)
 - AUDIO R/L (Stereo Mini Jack)
- ⑧ **Service port** - For service use only, Used for updating the television's firmware.
- ⑨ **HDMI Input (INPUT1, INPUT2 or INPUT3), PAGE 11** - An all digital AV interface that accepts uncompressed video signals for the very best picture possible. HDMI supports HDCP copy protection, allowing transmission of copy-protected digital content. The signal can also include Dolby® Digital or PCM audio, when available.

REMOTE CONTROL OPERATION

- ① **MUTE Key** - Press to mute or restore the sound.
- ② **Number Keys** - Press number keys to select a channel.
Example: Press 6 then OK key to select analog channel A6. Press 6 then 1-- key to select digital channel D6.
- ③ **INPUT Key** - Press to select the source to view: TV, VIDEO1, VIDEO2, YPbPr, HDMI1, HDMI2, HDMI3, or PC Input.
- ④ **SPORTS Key** - Press to choose between options Football, Winter Sports, Marine Sports, Indoor Sports, and Off in turn. (See page 13)
- ⑤ **ECO Key** - Press to Energy saving mode between options Off, ECO1, ECO2, and ECO3 in turn.
- ⑥ **Volume Keys** - Press VOL + to decrease or increase the audio volume.
- ⑦ **PIX SHAPE Key** - Press to choose between options Standard, WaterGlass, Zoom1, Full and Zoom2. Available options depend on the signal and the broadcast's aspect ratio.
- ⑧ **AUDIO Key** - Press to select the desired audio mode, if available.
- ⑨ **MENU** - Press to display on-screen menu.
CURSOR ▲ (up) ▼ (down) keys - Press these keys to move the cursor up and down.
CURSOR ◀ (left) ▶ (right) keys - Press these keys to move the cursor left and right.
OK key - Press to select an option from the menu system, when required.
EXIT key - Press to exit from the menu.
- ⑩ **1-- Key** - Press number key then press this key to select TV digital channel.
- ⑪ **GUIDE Key** - Press to show window with the guide information displayed on your HDTV screen (digital channel only).
- ⑫ **INFO Key** - Press to display Channel Banner information.
Digital Banner may contain: Channel Number, CC State, Channel Title, Video Resolution, Video Ratio, Signal Strength, Digital Sound information & Program Rating.
Analog Banner may contain: Channel Number, CC State, Channel Title, Video Resolution, Analog Sound information, & Program Rating.
- ⑬ **RECALL Key** - Press to switch to last channel or input selected.
- ⑭ **Channel Up / Down (CH+, -) Keys** - Press to switch to last / next active channel.



- ⑮ **RESET Key** - Press this key to display RESET menu. If execute RESET function, the TV will clear all customized settings.
NOTE : The Channel Scan Memory database will be reset to default (all analog channel enabled), please execute Channel Scan after RESET.
- ⑯ **SLEEP Key** - Press Press this key to switch Off Timer between Off, 30 min, 60 min, 90 min, 120 min, 150 min and 180 min options.
NOTE : The Off Timer cancels if th eTV is turned off or if a power failure occurs.
- ⑰ **CAPTION Key** - Press this key to switch CC mode between "Off", "CC Display" and "Muted=On" options. Digital Captions can be changed using the menu settings.

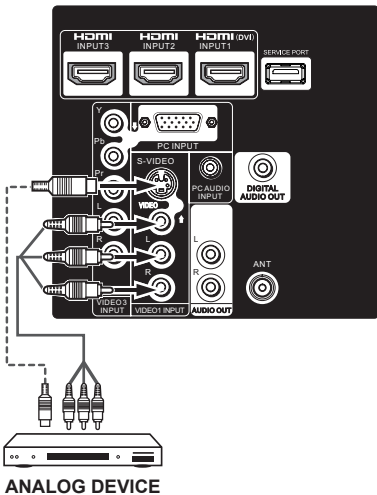
GETTING STARTED-CONNECTIONS

3 Analog Signal Connections - VIDEO1 or VIDEO2 (optional)

Connect an analog device, such as, an Analog Cable Box, Satellite Receiver, or VCR

Composite connectors are included on your new HDTV to provide continued compatibility with older analog devices, such as a VCR. The S-Video connector will provide the best analog resolution. If you have an S-Video connector on your old analog equipment, you should use it instead of the standard video connector. (Cables are not supplied)

- 1 Connect an AV cable to the VIDEO1 or VIDEO2 jack on the HDTV and to your analog AV equipment, as shown. Match the connector colors to jack colors.
- 2 Press the **INPUT** key to step through the signal inputs to select Video1 or Video2.

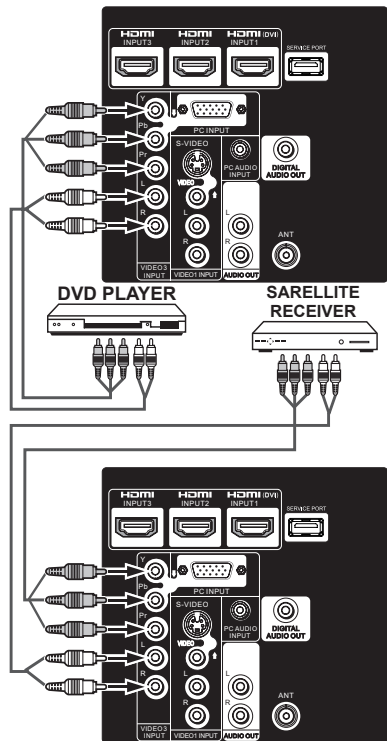


4 Digital Signal Connections - Video3 (YPbPr)

Connect Digital devices, such as, an HD Cable Box, HD Satellite Receiver, DVD Player, and Game System

The Component jacks on this HDTV will accept HDTV, EDTV, and SDTV video signals, making Component a great choice when connecting your compatible external devices.

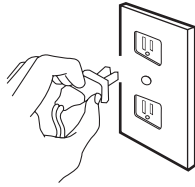
- 1 Connect a COMPONENT cable to a set of Green, Blue, and Red video jacks Video3 (YPbPr) on the HDTV and to your digital device, as shown. (Cable is not supplied)
- 2 Connect an AUDIO cable to the matching set of White and Red audio jacks, as shown. (Cable is not supplied)
- 3 Press the **INPUT** key to step through the signal inputs to select Video3 (YPbPr).



GETTING STARTED-POWER CONNECTION/CHANNEL SEARCH

POWER CONNECTION

- 5 Plug in AC power cord (120V AC, 60Hz)
- 6 Press the **POWER** key, (Follow the on-screen instructions).

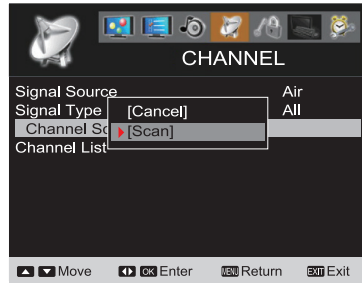
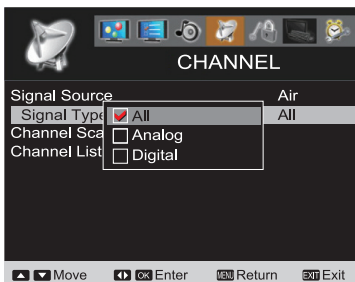
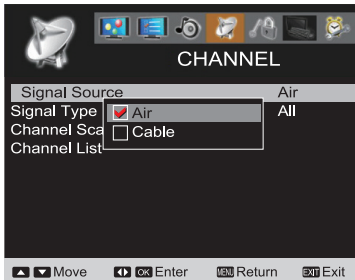


To 120V AC outlet.

INITIAL CHANNEL SCAN

- 7 Use the **CURSOR** ▲(UP) and ▼(Down) keys to highlight the **Channel Scan**. Press **OK**. Choose the **Scan** to start the channel scanning. The scanned channels are stored in channel List and can be scanned using the **CURSOR** ▲(UP) and ▼(Down) keys.

NOTE : Don't take the above process if there is no cable cord being plug-in to tuner connector.



AUTO CHANNEL SEARCH

Analog Channels found : 0
Digital Channels found : 0

Now Searching Please Wait...

ADVANCED AV CONNECTIONS

ADVANCED DIGITAL SIGNAL CONNECTIONS-HDMI TO HDMI

Connect compatible Digital devices, such as, an HD Cable Box, HD Satellite Receiver, DVD Player, and Game System.

HDMI-High-Definition Multimedia Interface.

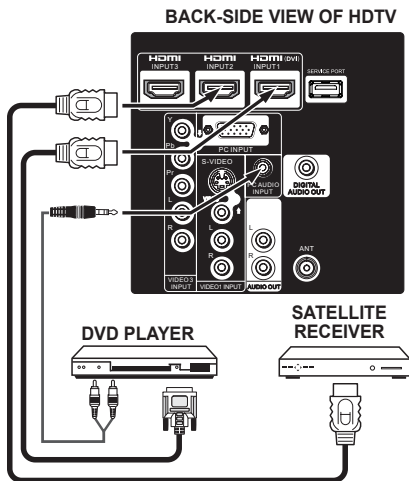
An all digital AV interface that accepts uncompressed video signals for the very best picture possible. It supports HDCP copy protection, allowing transmission of copy-protected digital content. The signal can also include Dolby® Digital or PCM audio, when available.

- 1 Connect an HDMI cable to one of the HDTV's HDMI inputs and to your external device. (Cable is not supplied)

NOTE : Press the **INPUT** key to step through the signal inputs to select HDMI1, HDMI2, or HDMI3.

DVI TO HDMI

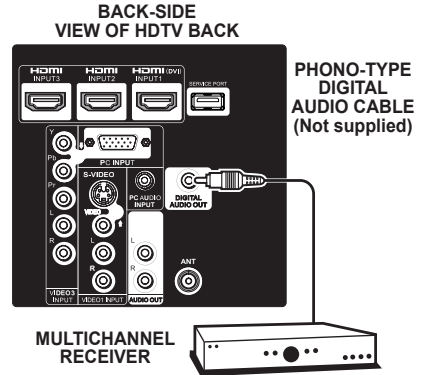
- 1 Use an adapter (not supplied) to connect a DVI device to a HDMI input jack.
- 2 Connect the audio out of the device to the PC AUDIO INPUT.



DIGITAL AUDIO

- 1 Connect the Digital Audio output to a multichannel receiver, as shown.

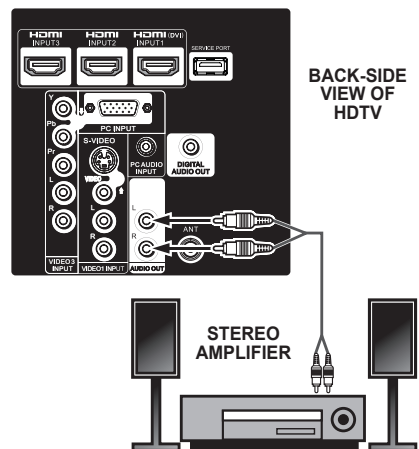
NOTE: Dolby Digital audio is available at the Digital Audio Output only when received as part of a Digital Antenna being viewed on the screen.



AUDIO OUT JACKS (FIXED ANALOG)

- 1 Connect the Stereo Audio Out jacks to a stereo amplifier, as shown.

NOTE: Do not connect external speakers directly to the HDTV.



PC CONNECTIONS

! *NOTE: Before connecting any cables, disconnect the AC Power Cords of both the HDTV and Personal Computer from the AC outlets.*

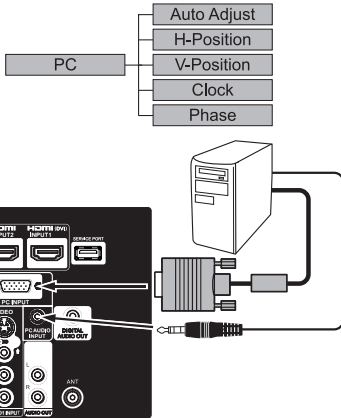
- 1 Connect an RGB cable from the monitor output on your PC to the RGB connector on the HDTV and tighten the screws. (Monitor Cable not supplied).
- 2 Insert one end of a Stereo Mini-Audio cable into the PC Audio Out jack and the other end into the HDTV PC Audio Input jack. (Stereo Mini-Audio Cable not supplied).

*HINT: Volume can be adjusted both from the PC and the HDTV **VOLUME +**, and **-** keys.*

- 3 Select Auto Adjustment from the PC Setup Menu.

! *NOTE: Power on the HDTV and any other peripheral equipment before powering on the computer.*

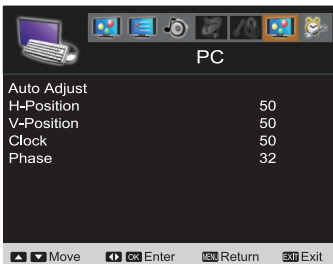
PC MENU NAVIGATION MAP



PC MONITOR OPERATION

PC PREPARATION

To avoid a "No Support" condition, preset your PC's output resolution to an XGA value, such as, 1024 x 768, before you disconnect it from your regular monitor.



PC MENU- AUTO ADJUSTMENTS OPERATION

- 1 Use the **CURSOR ▲** (UP) and **▼** (Down) keys on the remote control to highlight the **Auto Adjust** in the PC menu mode. Press **OK**.
- 2 Highlight the **Adjust** option and press **OK** key to start the automatically adjust function.

PC MENU- MANUAL ADJUSTMENTS OPERATION

The Clock, Phase, Horizontal Position, and Vertical Position are set automatically when Auto Adjustment is completely done.

Clock- Adjusts the Dot frequency to match the dot frequency of your computer.

Phase- Adjust the phase when the picture appears to flicker or blurred.

H-Position- Move the image horizontally.

V-Position- Move the image vertically.

- 1 Use the **CURSOR ▲** (UP) and **▼** (Down) keys on the remote control to highlight the **H-Position**, **V-Position**, **Clock**, or **Phase**. Press **OK**.
- 2 Use the **CURSOR ◀ ▶** keys to adjust the setting value. Press **MENU** key to return.
- 3 Press **EXIT** key on the remote control to exit the current menu.

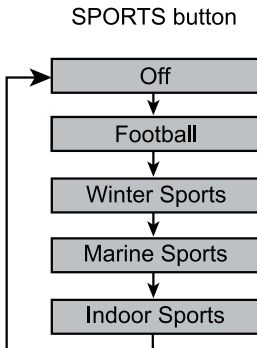
PC MENU OPERATING TIPS

The Picture settings in the PC input do not affect other input settings.

Sports Mode

Choosing mode just by pushing “**SPORTS**” key on remote controls, TV automatically optimizes both picture & sound setting for programs.

- **Off**
- **Football**
 - For golf, football programs etc.
 - Fresh green of lawn
 - Enfoldng cheering voices, ball hitting sounds
- **Winter Sports**
 - For skiing, ice skating programs ect.
 - Details kept white, vivid color of costume
 - Enhanced skiing/skating sounds
- **Marine Sports**
 - For swimming, diving programs ect.
 - Sparkling blue of sea, azure sky
 - Delightful splashing and surf sounds
- **Indoor Sports**
 - For basketball, boxing programs ect.
 - Alive reddish flesh
 - Clear announcements, powerful banging sounds

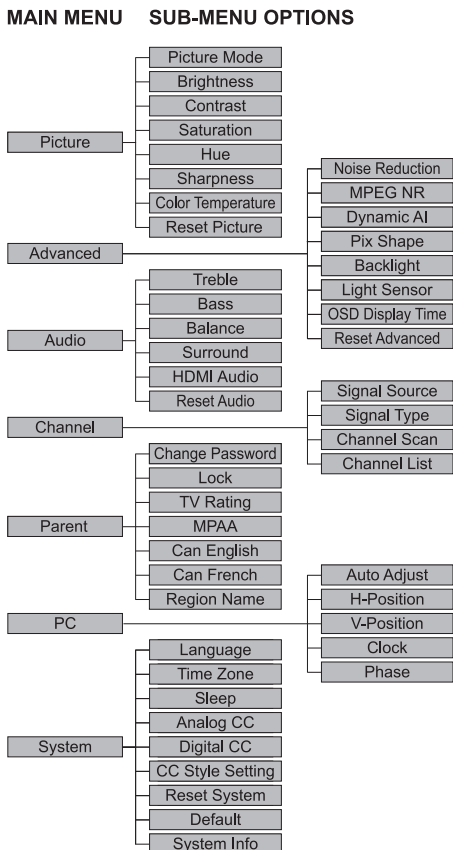


*NOTE : User push “**SPORTS**” key, there will have a OSD showing current sports mode on buttom-left. But once user change channel or input source. The sports mode will set to “**Off**” automatically. And there will be a “**Sports Off**” information showing on top-right.*

- *If user change channel or input source under Sports Off status, the “**Sports Off**” information will not show on top right.*

ON-SCREEN MENU OPERATION

MENU NAVIGATION MAP



CHANNEL ADJUSTMENT

SIGNAL SOURCE OPERATION Signal Source-

There are two categorizing:

- Air
- Cable

AIR(Antenna) Search: It will search for analog and digital channels that are broadcast over-the-air.

Cable Search: It looks for analog cable channels and unscrambled (Clear QAM) digital cable channels.

- 1 Press the **MENU** key on the remote control to display the Main menu. Use **CURSOR ◀ ▶** key to highlight the **CHANNEL** mode. Press **OK**.
- 2 Base on the TV input to highlight **Air** or **Cable**. Press **OK**.
- 3 Use the **CURSOR ▲ (UP)** and **▼ (Down)** key to highlight the **All** option. Press **OK**. (A red hook will appear beside the select item).
- 4 Use the **CURSOR ▲ (UP)** and **▼ (Down)** key to highlight the **Channel Scan**. Press **OK**. Choose the Scan to start the channel scanning.



ON-SCREEN MENU OPERATION (CONTINUE)

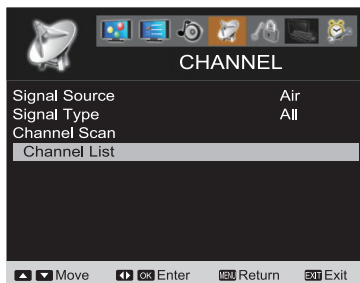
CHANNEL LIST OPERATION

Channel List is a database of active channels you can scan through using the **CURSOR ▲**(UP) and **▼**(Down) keys. Customize it by deleting or adding channels.

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use the **CURSOR ◀ ▶** keys to highlight **CHANNEL** mode. Press **OK**.
- 3 Use the **CURSOR ▲**(UP) and **▼**(Down) keys to highlight **Channel Scan**. Press **OK**. Make the channel scan process complete.

ADDING CHANNELS TO CHANNEL LIST

- 1 Use the **CURSOR ▲**(UP) and **▼**(Down) keys to highlight **Channel List** option. Press **OK**.
- 2 Use the **CURSOR ◀ ▶** keys to make the current page exchange to next one to get the more unshowed channels.
- 3 Use the **CURSOR ▲**(UP) and **▼**(Down) keys to select and highlight the channel you want to add.
- 4 Press the **VOL+** to add the channel to Channel List. (The white Y will appear in the squared region. That means the channel is added to Channel List.)



CH	Title	Active
A1		<input type="checkbox"/>
A2		<input checked="" type="checkbox"/>
A3		<input type="checkbox"/>
A4		<input type="checkbox"/>
A5		<input type="checkbox"/>
A6		<input type="checkbox"/>
A7		<input type="checkbox"/>

Navigation keys at the bottom: Page, Edit, Active.

DELETING CHANNELS FROM CHANNEL LIST

- 1 Use the **CURSOR ▲**(UP) and **▼**(Down) keys to highlight **Channel List** option. Press **OK**.
- 2 Use the **CURSOR ◀ ▶** keys to make the current page exchange to next one to get the more unshowed channels.
- 3 Use the **CURSOR ▲**(UP) and **▼**(Down) keys to select and highlight the channel you want to delete.
- 4 Press the **VOL+** to delete the channel to Channel List. (The white Y will disappear in the squared region. That means the channel had been deleted to Channel List.)

RENAMING CHANNELS FROM CHANNEL LIST

You can rename the each channels of the Channel List with following operation:

- 1 Use the **CURSOR ▲**(UP) and **▼**(Down) keys to highlight **Channel List** option. Press **OK**.
- 2 Use the **CURSOR ◀ ▶** keys to make the current page exchange to next one to get the more unshowed channels.
- 3 Use the **CURSOR ▲**(UP) and **▼**(Down) keys to select and highlight the channel you want to rename.
- 4 Press the **INFO** key on the remote control to start the function of renaming channels.
- 5 Use **0 ~ 9** keys to type the channel renaming with each appointed English word, numbers, and symbols by continuously pressing. (HINT: Use **CURSOR ◀ ▶** keys to move forward and backward. Use **1--** key to delete typing words and move backward.)
- 6 Press **INFO** key to make the setting of the renaming channel become effective.

CH	Title	Active
A1	TWM	<input type="checkbox"/>
A2		<input checked="" type="checkbox"/>
A3		<input checked="" type="checkbox"/>
A4		<input checked="" type="checkbox"/>
A5		<input checked="" type="checkbox"/>
A6		<input checked="" type="checkbox"/>
A7		<input checked="" type="checkbox"/>

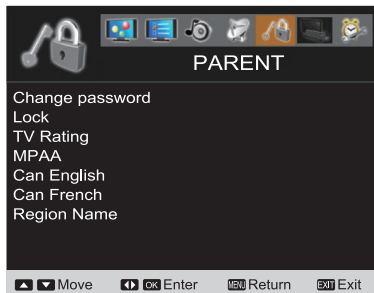
Navigation keys at the bottom: Move, Back, OK.

Tips: The each appointed definition of 0 ~ 9 number keys lists as the following list:

Number key	Appointed Words	Number key	Appointed Words
0	0.,?!'-()@/+	5	JKLjkl5
1	1	6	MNOmno6
2	ABCabc2	7	PQRSspars7
3	DEFdef3	8	TUVtuv8
4	GHIghi4	9	WXYZwxyz9

ON-SCREEN MENU OPERATION (CONTINUE)

PARENT ADJUSTMENT



This Sanyo television is equipped with an electronic V-Chip to interpret MPAA (Motion Picture Association of America) and TV Parental Guidelines rating codes. When these codes are detected, the HDTV will automatically display or block the program, depending upon choices you make when setting up the PARENT menu.

Use this feature to block automatically programs with content you deem as inappropriate for your children to view.

MORE INFORMATION

Additional information about MPAA and V-Chip rating can be found at: www.mpa.org and www.v-chip.org, respectively.

PASSWORD SETTING

When using this TV and entering PARENT menu at the first time, this TV needs to be set the new password for parent control. After setting this new password, it just needs to enter password to access PARENT menu next time.

- 1 Press **MENU** key and then use the **CURSOR** ◀ ▶ keys to highlight **PARENT** mode. Press **OK**.
- 2 Use the **0 - 9** keys to enter "**NEW PIN**" (the new password you want to assign). Press **OK**.
- 3 Use the **0 - 9** keys to enter "**Confirm**" numbers. Press **OK**.

NOTE : Please carefully remember new password. If forget the former password, press 1-- key 4 times can reset password.

CHANGE PASSWORD OPERATION

- 1 Press **MENU** key and then use the **CURSOR** ◀ ▶ keys to highlight **PARENT** mode. Press **OK**.
- 2 Enter password. If the password is correct, it will return automatically to **PARENT** menu. If the password is wrong, you can enter password again or press **MENU** key to return to **PARENT** menu.
- 3 Use the **CURSOR** ▲ (UP) and ▼ (Down) keys to highlight **Change Password** mode. Press **OK**.
- 4 Use the **0 - 9** keys to enter the "**OLD PIN**" (the former password), "**NEW PIN**" (the new password you want to assign), and enter "**Confirm**" numbers in turn. Press **OK**.

LOCK OPERATION

Depend on V-Chip- It follows the restricted channels broad casting setting within MPAA and TV Rating option in **PARENT** menu.

Lock- Block the broadcast of the current displayed channel directly or current source input.

- 1 Press **MENU** key and then use the **CURSOR** ◀ ▶ keys to highlight **PARENT** mode. Press **OK**.
- 2 Enter password. If the password is correct, it will return automatically to **PARENT** menu. If the password is wrong, you can enter password again or press **MENU** key to return to **PARENT** menu.
- 3 Use the **CURSOR** ▲ (UP) and ▼ (Down) keys to highlight **Lock** mode. Press **OK**.
- 4 Select **Depend on Vchip** or **Lock** option. Press **OK**.

TV Rating OPERATION

TV Rating- It decide which kind of classified channel in Channel List can be allowed to be broadcasted.

You can block portions of the TV rating by choosing one or more of the content ratings (D, L, S, and V).

By blocking just the L and S content ratings of TV-14, for example, TV-14 rated programs with a D and/or V content rating could still be viewed.

- 1 Press **MENU** key and then use the **CURSOR** ◀ ▶ keys to highlight **PARENT** mode. Press **OK**.
- 2 Enter password. If the password is correct, it will return automatically to **PARENT** menu. If the password is wrong, you can enter password again or press **MENU** key to return to **PARENT** menu.
- 3 Use the **CURSOR** ▲ (UP) and ▼ (Down) keys to highlight **TV Rating** mode for TV Rating. Press **OK**.
- 4 Use the **CURSOR** ▲ (UP), ▼ (Down), and ◀ ▶ keys to select the setting you want to adjust and press **OK**. (The white mark will appear in the squared region)

MPAA OPERATION

MPAA-It decide which kind of classified movie rating signal can be allowed to be broadcasted.

- 1 Press **MENU** key and then use the **CURSOR** ◀ ▶ keys to highlight **PARENT** mode. Press **OK**.
- 2 Enter password. If the password is correct, it will return automatically to **PARENT** menu. If the password is wrong, you can enter password again or press **MENU** key to return to **PARENT** menu.
- 3 Use the **CURSOR** ▲ (UP) and ▼ (Down) keys to highlight **MPAA** mode for movie Rating. Press **OK**.
- 4 Use the **CURSOR** ▲ (UP) and ▼ (Down) keys to select the setting you want to adjust and press **OK**. (The white mark will appear in the squared region).

ON-SCREEN MENU OPERATION(CONTINUE)

CAN ENGLISH OPERATION

- 1 Press **MENU** key and then use the **CURSOR ◀ ▶** keys to highlight **PARENT** mode. Press **OK**.
- 2 Enter password. If the password is correct, it will return automatically to **PARENT** menu. If the password is wrong, you can enter password again or press **MENU** key to return to **PARENT** menu.
- 3 Use the **CURSOR ▲** (UP) and **▼** (Down) keys to highlight **Can English** mode. Press **OK**.
- 4 Use the **CURSOR ▲** (UP) and **▼** (Down) keys to select the setting you want to adjust and press **OK**. (The white mark will appear in the squared region).

CAN FRENCH OPERATION

- 1 Press **MENU** key and then use the **CURSOR ◀ ▶** keys to highlight **PARENT** mode. Press **OK**.
- 2 Enter password. If the password is correct, it will return automatically to **PARENT** menu. If the password is wrong, you can enter password again or press **MENU** key to return to **PARENT** menu.
- 3 Use the **CURSOR ▲** (UP) and **▼** (Down) keys to highlight **Can French** mode. Press **OK**.
- 4 Use the **CURSOR ▲** (UP) and **▼** (Down) keys to select the setting you want to adjust and press **OK**. (The white mark will appear in the squared region.)

*NOTE : Press the **OK** key to make or cancel the selected setting. A lock symbol will appear beside the selected rating option indicating that it is blocked.*

REGION NAME OPERATION

Region Name- Region Name for V-Chip Regional Rating 5 (RRT5) is an advanced V-Chip ratings system for digital channels that are received with an antenna.

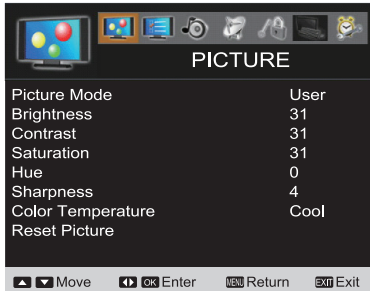
When the HDTV detects compatible RRT5 data, it is downloaded and stored in memory and the menu is modified to include and advanced adjustment option.

- 1 Press **MENU** key and then use the **CURSOR ◀ ▶** keys to highlight **PARENT** mode. Press **OK**.
- 2 Enter password. If the password is correct, it will return automatically to **PARENT** menu. If the password is wrong, you can enter password again or press **MENU** key to return to **PARENT** menu.
- 3 Use the **CURSOR ▲** (UP) and **▼** (Down) keys to highlight **Region Name** mode. Press **OK**.
- 4 Use the **CURSOR ▲** (UP) and **▼** (Down) keys to select the option you want to adjust. Press **OK**.
- 5 Press the **OK** key to make or cancel the selected setting.

NOTE : If current program stream without RRT5 data, this function will be grayed out. This function only effective for digital channels included RRT5 data.

PICTURE/ AUDIO/ ADVANCED ADJUSTMENT

PICTURE



ADJUST THE PICTURE LEVELS

PICTURE MODE OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **PICTURE** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **PICTURE** mode. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Cinema, Standard, Vivid,** or **User**. Press **OK** key to add the red hook in the blank space.

BRIGHTNESS/ CONTRAST/ SATURATION/ HUE/ SHARPNESS OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **PICTURE** mode. Press **OK**
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Brightness, Contrast, Saturation, Hue,** or **Sharpness**. Press **OK**.
- 4 Use **CURSOR ◀ ▶** keys to adjust the picture setting.

COLOR TEMPERATURE OPERATION

- 1 Press the **MENU** key to display the Main menu. Press **OK**.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **PICTURE** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight **Color Temperature**. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select **Warm, Normal,** or **Cool**. Press **OK**.

RESET PICTURE OPERATION

Reset Picture- It can make the previous adjusting settings during the PICTURE mode recovered from the factory default value.

- 1 Use **CURSOR ◀ ▶** keys to highlight the **PICTURE** mode. Press **OK**.
- 2 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Reset Picture** option. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select **Reset** or **Cancel** option. Press **OK**.

NOTE : Press **MENU** key to return back to **PICTURE** mode menu.

AUDIO



ADJUST THE AUDIO LEVELS

TREBLE/ BASS/ BALANCE OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **AUDIO** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Treble, Bass,** or **Balance**. Press **OK**.
- 4 Use **CURSOR ◀ ▶** key to adjust the audio setting.

SURROUND OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **AUDIO** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Surround** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Off** or **On** option. Press **OK**. (The red hook will appear in the white blank space).

HDMI AUDIO OPERATION

HDMI Audio- It includes three categories:

AUTO- It means the system will automatically detects the available Digital and Analog input sources and take the most suitable Audio output by the category of the assigned input currently.

The Analog input (CVBS) is the default accepted setting unless the Digital input (HDMI) has been detected. The Analog output (CVBS) and Digital input (HDMI) don't exist simultaneously.

Digital- During this setting, the Analog audio output won't be occurred. Only Digital Audio audio input can be outputted.

Analog- During this setting, the Digital audio output won't be occurred. Only Analog Audio audio input can be outputted.

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **AUDIO** mode. Press **OK**.
- 3 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to highlight the HDMI Audio option. Press **OK**.
- 4 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select the **Auto**, **Digital**, or **Analog** option. Press **OK**. (The red hook will appear in the white blank space).

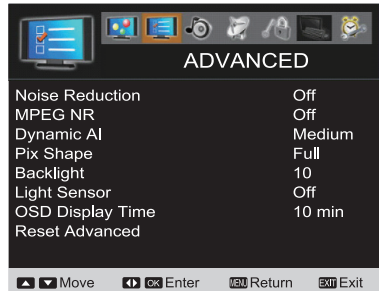
RESET AUDIO OPERATION

Reset Audio- It can make the previous adjusting settings during the AUDIO mode recovered from the factory default value.

- 1 Use **CURSOR ◀ ▶** keys to highlight the **AUDIO** mode. Press **OK**.
- 2 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to highlight the Reset Audio option. Press **OK**.
- 3 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select **Reset** or **Cancel** option. Press **OK**.

*NOTE : Press **MENU** key to return back to **AUDIO** menu*

ADVANCED



ADJUST THE ADVANCED LEVELS

NOISE REDUCTION OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **ADVANCED** mode. Press **OK**.
- 3 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select the **Noise Reduction** option. Press **OK**.
- 4 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select **Off**, **Weak**, **Medium**, or **Strong** option. Press **OK**.

MPEG NR OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **ADVANCED** mode. Press **OK**.
- 3 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select the **MPEG NR** option. Press **OK**.
- 4 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select **Off** or **On** option. Press **OK**.

DYNAMIC AI OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **ADVANCED** mode. Press **OK**.
- 3 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select the **Dynamic AI** option. Press **OK**.
- 4 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select **Off**, **Weak**, **Medium**, or **Strong** option. Press **OK**.

PIX SHAPE OPERATION

Pix Shape- There are three categories during it. And the showed troop of options during Pix Shape mode change by detecting HD, SD, or PC inputs.

The showed troop of options during HD,SD, or PC inputs are listed as below:

HD: Full / WaterGlass / Zoom1 / Zoom2

SD: Standard / WaterGlass / Zoom1 / Full / Zoom2

PC: Normal / Full / Dot by Dot

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **ADVANCED** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Pix Shape** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select **Standard, WaterGlass, Zoom1, Full,** or **Zoom2** option. Press **OK**.

BACKLIGHT OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **ADVANCED** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Backlight** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the desired value between 0 to 20.

LIGHT SENSOR OPERATION

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **ADVANCED** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Light Sensor** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Off** or **On** option. Press **OK**.

OSD DISPLAY TIME OPERATION

OSD Display Time- There are ten categories for your choice of 1 min, 2 min, 3 min, 4 min, 5 min, 6 min, 7 min, 8 min, 9 min and 10 min during OSD Display Time mode.

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **ADVANCED** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **OSD Display Time** option. Press **OK**.
- 4 Use **CURSOR ◀ ▶** keys to select the **1 min, 2 min, 3 min, 4 min, 5 min, 6 min, 7 min, 8 min, 9 min,** or **10 min** option. Press **OK**.

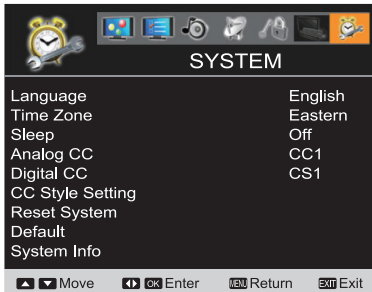
RESET ADVANCED OPERATION

Reset Advanced- It can make the previous adjusting settings during the **ADVANCED** mode recovered from the factory default value.

- 1 Use **CURSOR ◀ ▶** keys to highlight the **ADVANCED** mode. Press **OK**.
- 2 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Reset Advanced** option. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select **Reset** or **Cancel** option. Press **OK**.

*NOTE : Press the **MENU** key to return to the previous **ADVANCED** menu.*

SYSTEM



LANGUAGE OPERATION

Language- There are three different languages of English, Français, and Español for the on-screen display of menus and messages.

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Language** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **English, Français, or Español** option. Press **OK**. The red hook will appear in the squared and blank region.

TIME ZONE OPERATION

Time Zone- There are six categories in different location in U.S.A. of Eastern, Central, Mountain, Pacific, Alaska, and Hawaii for your choice of setting all displayed time zone on the all ON- Screen Menu.

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Time Zone** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Eastern, Central, Mountain, Pacific, Alaska, or Hawaii** option. Press **OK**. The red hook will appear in the squared and blank region.

SLEEP OPERATION

Sleep- There are seven categories of Off, 30 min, 60 min, 90 min, 120 min, 150 min, and 180 min for your choice of setting the counting down of time you desire the HDTV to be turned off by itself. The default setting is Off.

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Sleep** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **Off, 30 min, 60 min, 90 min, 120 min, 150 min, or 180 min** option. Press **OK**. The red hook will appear in the squared and blank region.

ANALOG CC OPERATION

Analog CC- There are eight types of captions for Analog TV signal for your choice of setting the desired caption type to be displayed with Analog TV signal programs on your HDTV.

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Analog CC** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **CC1, CC2, CC3, CC4, TT1, TT2, TT3, or TT4** option. Press **OK**. The red hook will appear in the squared and blank region.

DIGITAL CC OPERATION

Digital CC- There are six types of captions for Digital TV signal for your choice of setting the desired caption type to be displayed with Digital TV signal programs on your HDTV.

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 3 Use **CURSOR ▲(UP)** and **▼(Down)** keys to highlight the **Digital CC** option. Press **OK**.
- 4 Use **CURSOR ▲(UP)** and **▼(Down)** keys to select the **CS1, CS2, CS3, CS4, CS5, or CS6** option. Press **OK**. The red hook will appear in the squared and blank region.

CC STYLE SETTING OPERATION

CC Style Setting- Caption is textual information transmitted along with the picture and sound.

Turning captioning ON causes the HDTV to open these captions (Digital or Analog) and superimpose them on the screen. (Local broadcasters decide which caption signals to transmit). Digital Captions can be changed by your choice of the CC Style Setting as shown.

There are several Subcatalogs of each nine categories during CC Style Setting for your choice of setting the desired caption style superimposed on your HDTV screen.

Category Title	Subcatalog of the Category Title
CC Setting	CC Display / Muted=On / Off
CC Priority	Automatic / Analog CC / Digital CC
Digital CC Preset	Default / Custom
Font Size	Standard / Large / Small
Font Color	White / Red / Green / Blue / Yellow / Magenta / Cyan / Black
Font Style	Style1 / Style2 / Style3 / Style4 / Style5 / Style6 / Style7
Edge Type	None / Raised / Depressed / Outline / L.shadow / R.shadow
Edge Color	White / Red / Green / Blue / Yellow / Magenta / Cyan / Black
Background Color	White / Red / Green / Blue / Yellow / Magenta / Cyan / Black

- 1 Press the **MENU** key on the remote control to display the Main menu.
- 2 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 3 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to highlight **CC Style Setting**. Press **OK**.
- 4 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select the **CC Setting, CC Priority, Digital CC, Present, Font Size, Font Color, Font Style, Edge Type, Edge Color, or Background Color**. Press **OK**.
- 5 Use **CURSOR ◀ ▶** keys to select the above-mentioned Subcatalog of the Category Title you want to set. Press **OK**.

RESET SYSTEM OPERATION

Reset System- It can make the previous adjusting settings during the SYSTEM mode recovered from the factory default value

- 1 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 2 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to highlight the **Reset System** option. Press **OK**.
- 3 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select **Reset or Cancel** option. Press **OK**.

DEFAULT OPERATION

Default- It's the same function linked to the **RESET** key on the remote control.

It can make the previous adjusting settings during the all ON-Screen Menu Operation recovered from the factory default value.

NOTE: Be much careful for your operation during this function, or the all previous setting you had set in all ON-Screen Menu Operation before may be lost and recovered from the factory default value.

- 1 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 2 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to highlight the **Default** option. Press **OK**.
- 3 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to select **Reset or Cancel** option. Press **OK**.

SYSTEM INFO OPERATION

System Info- This function allows your checking the record of the Firmware Code version and release Date which were kept in your HDTV memory.

- 1 Use **CURSOR ◀ ▶** keys to highlight the **SYSTEM** mode. Press **OK**.
- 2 Use **CURSOR ▲ (UP)** and **▼ (Down)** keys to highlight the **System Info** option. Press **OK**.
- 3 Use the **MENU** key to return back to **SYSTEM** menu or use the **EXIT** key to close the ON-Screen menu.

NOTE: Press the MENU key to return back to SYSTEM menu.

HELPFUL HINTS - Problems / Solutions

If you are having problems with your HDTV, check this trouble shooting chart to find one or more possible solution.

Before returning your HDTV, please visit our website at www.sanyoctv.com or call us **toll free at 1.800.877.5032. We can Help!**

Problem:	Check these Conditions:	Try these Solutions:	Page No.
No picture, sound (Digital Picture)	<ul style="list-style-type: none"> • Check antenna / external connections • Maybe station trouble, NO signal broadcast. • MUTE function may be turned ON. 	<ul style="list-style-type: none"> • Adjust antenna. • Try a different channel. • Execute Channel Scan in CHANNEL menu. (Set Signal Type to All) • Adjust Volume. 	6, 10, 13 - 14
No Caption	<ul style="list-style-type: none"> • Check if station is broadcasting a Closed - Caption signal. • Select another channel. 	<ul style="list-style-type: none"> • Press CAPTION key to select captioning mode. 	8, 20
Cannot display picture on a full screen		<ul style="list-style-type: none"> • Press PIX SHAPE key on the remote control to change setting. 	8, 19
Poor Picture/ Sound (watching Analog)	<ul style="list-style-type: none"> • Check if program is in color. • Check antenna / external connections. • Color or Tint misadjusted. • Maybe station trouble. • Maybe the MUTE function is ON. 	<ul style="list-style-type: none"> • Try a different channel. • Adjust antenna. • Execute Reset Picture in PICTURE menu. • Adjust the Volume and/or Image. 	6, 8, 17
"No Signal" message appears on screen	<ul style="list-style-type: none"> • Check Audio / Video connections. • Check external equipment connections. • Check external equipment setting. • Check antenna connection. 	<ul style="list-style-type: none"> • Press INPUT key on the remote control. 	6 - 12
Pixilation of Digital image	<ul style="list-style-type: none"> • Press INFO key and check signal strength. 	<ul style="list-style-type: none"> • Turn antenna, install signal booster. • Install outdoor Digital antenna. 	6, 8
Cannot select or scan some channels	<ul style="list-style-type: none"> • Channel may be removed from memory. • Check antenna connections. • No digital signal being broadcasted. • Weak Signal. 	<ul style="list-style-type: none"> • Selec Channel List to add channels or start channel scan in CHANNEL mode. • Turn antenna, instal signal booster. 	6, 10, 13 - 16
No Cable channels above number 13	<ul style="list-style-type: none"> • Check CHANNEL menu, Signal Source item should set to Cable. 	<ul style="list-style-type: none"> • Set Signal Source to Cable, Set Signal Type to All and execute Channel Scan to search for Cable channels in CHANNEL menu. 	10, 13
Remote Control will not operate TV	<ul style="list-style-type: none"> • Check batteries. • Check if TV is Plugged in. 	<ul style="list-style-type: none"> • Replace batteries. • Aim remote control at front of TV. 	6, 8
Cabinet makes popping sound	<ul style="list-style-type: none"> • This is a normal condition during warm - up and cool down of the plastic cabinet parts. 		

SPECIFICATIONS

Maximum Visible Range

LCD-19E3	(H)409.8 × (V)230.4 mm (18.51 inches)
LCD-26E3	(H)575.769 × (V)323.712 mm (26 inches)
LCD-32E3	(H)697.685 × (V)392.256 mm (31.51 inches)
LCD-42E3	(H)930.24 × (V)523.26 mm (42.02 inches)

Picture Resolution

LCD-19E3	WXGA	1366 x 768
LCD-26E3	WXGA	1366 x 768
LCD-32E3	WXGA	1366 x 768
LCD-42E3	Full HD	1920 x 1080

Viewing Angle

LCD-19E3	Horizontal 170° & Vertical: 160°
LCD-26E3	Horizontal & Vertical: 178°
LCD-32E3	Horizontal & Vertical: 178°
LCD-42E3	Horizontal & Vertical: 178°

Brightness

LCD-19E3	300 cd/m ²
LCD-26E3	450 cd/m ²
LCD-32E3	450 cd/m ²
LCD-42E3	500 cd/m ²

Contrast Ratio

LCD-19E3	1000:1
LCD-26E3	3000:1
LCD-32E3	3000:1
LCD-42E3	5000:1

Voltage

120V AC 60Hz

AC Power Consumption (average)

LCD-19E3	40 Watts
LCD-26E3	73 Watts
LCD-32E3	93 Watts
LCD-42E3	157 Watts

Color System

NTSC3.58

Sound System

M

Channel Coverage

Low band: 54.00 to 144.00MHz
Mid band: 145.00 to 424.00MHz
High band: 425.00 to 861.25MHz

Sound specialty

Maximum Output Power

LCD-19E3	3W+3W
LCD-26E3	7W+7W
LCD-32E3	10W+10W
LCD-42E3	10W+10W

Dimensions

(Including Stand)

19"	(W)463 x (H)351 x (D)168 mm
26"	(W)668 x (H)495 x (D)210 mm
32"	(W)802 x (H)571 x (D)210 mm
42"	(W)1023 x (H)697 x (D)250 mm

Net Weight

(Including Stand)

19"	4.4 kg
26"	8.0 kg
32"	11.1 kg
42"	19.1 kg

Operating Environment

Operating Temperature: Operating: 5°C to 35°C

Operating Humidity: 0 % to 90 %

Storage Temperature: 0°C to 40°C

Storage Humidity: 0% to 90% (non-condensing)

- Specifications are subject to change without notice.
- The On-Screen Menu and figures in this manual may differ slightly from the product.

Input terminals

					Video 1			Video 2		Video 3	
	PC	PC AUDIO INPUT	HDMI/DVI	ANT	AV	SV	AV/SV Audio	AV	AV Audio	YPbPr	YPbPr Audio
19"	1	1	1	1	1	1	1	1	1	1	1
26"	1	1	2	1	1	1	1	1	1	1	1
32"	1	1	3	1	1	1	1	1	1	1	1
42"	1	1	3	1	1	1	1	1	1	1	1

Output terminals

	Digital Audio Output	Audio Output
19"	1	1
26"	1	1
32"	1	1
42"	1	1

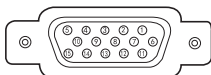
CONFIGURATIONS OF VGA TERMINALS

VGA IN (D-SUB) TERMINAL

Terminal : D-SUB15 PIN

Connect video output terminal of LCD TV to this terminal with VGA Cable (not supplied). When connecting Macintosh computer, the MAC Adapter (not supplied) is required.

Pin Configuration



1	Red Input	9	+5V
2	Green Input	10	NC
3	Blue Input	11	Sense 0
4	Reserved	12	DDC_SDA
5	Reserved	13	Horiz. sync.
6	GND	14	Vert. sync.
7	GND	15	DDC_SCL
8	GND		

SIGNAL MODE COLUMN (recommended)

This LCD TV can correspond to the signals below. After connecting with the computer, LCD TV can automatically recognize the signal from the connected PC (computer) / HDMI.

PC SIGNAL MODE COLUMN (recommended)®

19" / 26" / 32" / 42"				
SYSTEM MODE	Resolution	V-Freq.(Hz)	H-Freq.(KHz)	PIXELS CLOCK (MHz)
VGA	640x480	59.94	31.47	25.18
SVGA	800x600	60	37.88	40
XGA	1024x768	60	48.36	65
WXGA	1360x768	60	47.712	85.5
WXGA	1280x768	60	47.78	79.5
SXGA (42" Full-HD only)	1280x1024	60	63.981	108

NOTE:

- In case LCD TV can not display properly due to the connecting cable or the graphic hardware, please make adjustments about phase, clock and soon.
- In principle, LCD TV can not display the signal mode which not described in the above column. But sometimes it can display a signal very similar with one of the signal described.
- If you want to change the definition and color of PC, please select one from the column.
- It is not the trouble of LCD TV if interference appears on the picture while switching the signal mode.
- The Dot Clock of the computer's signal must be less than 108 MHz.
- Specifications are subject to change without notice.
- When the input signal from PC is out of above PC signal mode column, "No Support" caution message will display. But in some case, the LCD TV still display the PC signal though the signal mode doesn't exist on above list. Under this condition, the display position may not correct and quality may not be admitted also.

When input signal is digital from HDMI terminal, refer to the chart below.

19" / 26" / 32" / 42"				
SYSTEM MODE	Resolution	V-Freq.(Hz)	H-Freq.(KHz)	PIXELS CLOCK (MHz)
480I	720(1440)x480	59.94	15.73	27
480P	720x480	59.94	31.47	27
720P/60	1280x720	60	45	74.25
1080I/60	1920x1080	60	33.75	74.25
1080P/24 (42" Full-HD only)	1920x1080	24	26.973	74.25
1080P/60 (42" Full-HD only)	1920x1080	60	67.5	148.5



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