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. _____

Contents

English

English

Welcome

Congratulations on the purchase of your High Definition LCD TV-and thank you for choosing Westinghouse. This User Manual was created to ensure simple, safe setup and use of all the features offered by your new HDTV.

Package Contents

In addition to your new Westinghouse FHDTV and this User Manual, you'll also find the following:

Quick Setup Guide, Warranty Card and User Guide	Quick Connect Guide · Warranty card · **User manual**
Remote control and 2 AAA batteries	
AC power cord	
Screw driver and 4 screws (42" model)	

Contacting Westinghouse Digital

If you still have questions or require assistance after reading the Quick Setup Guide and the instructions in this User Manual, please contact Westinghouse Customer Service at 1-866-287-5555, or visit our Web site at www.westinghousedigital.com.

Don't forget to complete and return your Warranty card or use our online Product Registration feature. Your Westinghouse HDTV is warranted for

defects in materials or workmanship for a period of one year from original date of purchase.

Explanations of required symbols :

SYMBOL	SYMBOL DEFINITION
⚡ (in triangle) SA 1965	**DANGEROUS VOLTAGE :** The lightning flash with arrowhead symbol, within on equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electrical shock to persons.
! (in triangle) SA 1966	**INSTRUCTIONS :** The exclamation point with on equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

PLEASE READ FIRST:

1 Product Safety

WARNING: This device must be operated with the original power supply, part number DPS-210 EP 2 C.

Caution: The power supply outlet should be located near High Definition LCD TV and should be easily accessible. Always use the appropriate AC cord that is certified for your specific country. Some examples are listed below:

USA...UL	Switzerland......................................SEV
Canada...................................CSA	Britain......................................BASE/BS
Germany................................VDE	Japan.......Electric Appliance Control Act

Important Notice Concerning Power Cord Selection

The specific power cord for this High Definition LCD TV is enclosed and has been selected according to the country of destination and must be used to prevent electric shock. Use the following guidelines if it is necessary to replace the original cord set, or if the cord set is not enclosed. The female receptacle of the cord set must meet IEC-60320 requirements and should look like Figure A1 below:

Figure A1 **Figure A2**

For the United States and Canada

In the United States and Canada the male plug is a NEMA5-15 style (Figure A2), UL Listed, and CSA Labeled. For High Definition LCD TVs that are placed on a desk or table, type SVT or SJT cord sets may be used. For High Definition LCD TVs placed directly on the floor, only SJT type cord sets may be used. The cord set must be selected according to the current rating for the High Definition LCD TV. Please

consult the table below for the selection criteria for power cords used in the United States and Canada.

Cord Type	Size of Conductors in Cord	Maximum Current Rating of Unit
SJT	18 AWG 16 AWG 14 AWG	10 Amps 12 Amps 12 Amps
SVT	18 AWG 17 AWG	10 Amps 12 Amps

FCC Compliance Statement

This equipment has been tested and complies 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 may cause harmful interference to radio communications if not installed and used in accordance with the instructions. 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 High Definition LCD TV and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the Westinghouse Service Center or an experienced radio/TV technician for assistance.

FCC Warning

To assure continued FCC compliance, the user must use a grounded power supply cord and the provided shielded video interface cable with bonded ferrite cores. If a BNC cable is used, use only a shielded BNC (5) cable. Also, any unauthorized changes or modifications not expressly approved by Westinghouse Digital will void the user's authority to operate this device.

Product Safety Instructions

Follow and obey all warnings and instructions marked on the High Definition LCD TV. For your safety, please read all of the following safety and operating instructions before you operate the High Definition LCD TV-and keep this User's Manual for future reference.

Important Safety Instructions

1   Never use your HDTV near water.

2   Clean only with dry cloth.

3   Never block any ventilation openings; install in accordance with the manufacturer's instructions.

4   Do not install near any heat sources such as radiators, heat registers, stoves or any other equipment (including amplifiers) that produce heat.

5   Take care to maintain 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; therefore, if the provided plug does not fit into your outlet, do not alter the plug in any way to fir; consult an electrician for replacement of the obsolete outlet.

6   Ensure the power cord is protected from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.

7   Only use attachments/accessories specified by the manufacturer.

8   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 the potential for injuries caused by tipping over.

9   Unplug this apparatus during lightning storms or when unused for long periods of time.

10 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as: damage to the power supply cord or plug; liquid has been spilled into-or objects have fallen onto-the apparatus; the apparatus has been exposed to rain or moisture and does not operate normally, or it has been dropped.

Other Notices

•   Avoid exposing the High Definition LCD TV to direct sunlight or high temperatures.

- Avoid exposing the High Definition LCD TV to moisture or high humidity.
- Do not attempt repairs yourself. Your warranty does not cover repairs or attempted repairs by anyone not authorized by the manufacturer.
- If your High Definition LCD TV will not be used for a long period of time, unplug your HDTV and remove the batteries from the remote control.
- Only use attachments/accessories specified by the manufacturer.
- Avoid touching the screen. Skin oils are difficult to remove.
- Never remove the rear cover. Your High Definition LCD TV contains high-voltage parts. You may be seriously injured if you touch them.
- Always handle your LCD display with care when moving it.
- If the High Definition LCD TV emits smoke, abnormal noise, or a strange odor, immediately turn it off and contact the Westinghouse Service Center.

English

Antenna Installation Safety

Antenna Grounding According to the National Electrical Code, ANSI/NFPA 70

- Antenna lead-in wire
- Antenna discharge unit (NEC Section 810-20)
- Ground clamps
- Grounding conductors (NEC Section 810-21)
- Electric service equipment
- Ground clamps
- Power service grounding electrode system (NEC Art 250 Part H)

NEC: National Electrical Code
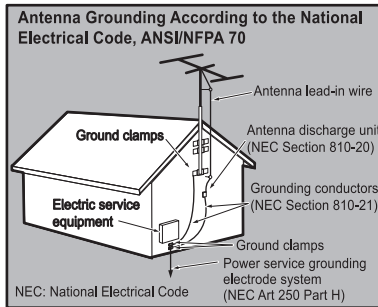
Outdoor Antenna Grounding

If an outside antenna or cable system is connected to the High Definition LCD TV, be sure the antenna or cable system is grounded to prevent voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANS/NFPA 70, provides information on proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.

Lightning

For added protection for the High Definition LCD TV during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the High Definition LCD TV due to lightning and power-line surges. Do not disconnect the antenna or the power cord during a heavy storm-lightning may strike while you are holding the cable cord, causing serious injury. Turn off your High Definition LCD TV and wait for the weather to improve.

Power Lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits.

2 INTRODUCTION: THE BASICS

Digital Television (DTV)

Television broadcasting is changing. By February of 2009, traditional analog TV transmissions (the standard since TV's inception) will cease to exist, in compliance with a federal mandate requiring all U.S. television stations to convert from analog to the new digital television (DTV) standards.

In contrast to the magnetic waves used for analog transmission (also known as NTSC, short for National Television Standards Committee), DTV transmits images and sound as data, using ones and zeroes, the same digital code computers use. As a result of this increased efficiency, DTV offers an array of benefits including dramatic improvements to picture and sound quality. In addition, DTV allows the same number of stations to broadcast using fewer channels, freeing parts of the broadcast spectrum for other uses, such as public safety and wireless services

Note: DTV should not be confused with digital cable or digital satellite systems. While these systems receive digital signals, the signals are converted to analog for display on channel 3 or 4 of an analog TV.

High Definition Television (HDTV)

The most common DTV formats are Standard Definition Television (SDTV) and High Definition Television (HDTV). Of the two, HDTV delivers digital broadcasting's highest resolution and picture quality. HDTV also uses a "widescreen format," which refers to the aspect ratio (screen width vs. height) of the image. To put this in perspective, analog television uses a 4 x 3 aspect ratio; HDTV's aspect ratio is 16 x 9, creating a more cinematic-like viewing experience. Plus HDTV increases the number of horizontal scan lines on the screen, enabling it to render greater picture detail. And, while HDTV uses approximately the same bandwidth, it transmits approximately six times more information, further enhancing video and audio clarity.

About the Digital Television Picture

Your new Westinghouse High Definition LCD TV has a built-in HDTV/NTSC tuner, meaning it can receive both analog and digital broadcasts from your antenna, cable or satellite service. But because not all broadcasters have converted to the new DTV standards, it's important to understand some fundamentals of the digital television picture.

The elements that make up onscreen images are pixels. The more pixels, the more detail, because the number of pixels determines picture resolution-and HDTV offers

the highest pixel count and best resolution available. HDTV resolution is available in both 720p and 1080i formats. The "p" and "i" refer to the scanning method used to deliver the lines of resolution on the screen. Progressive "p" scanning means that pixels on the screen are refreshed simultaneously, with each scan showing every line for a complete picture at 1/60th of a second. Interlaced "i" scanning refreshes pixels by alternating first, by showing every odd line, then following with the even lines-for a complete picture at 1/30th of a second.

True high definition image quality is possible only with a true high definition display-and a 720p or 1080i signal coming into your HDTV. Lower resolution images from analog broadcasts or VHS recordings, for example, may result in disappointing picture quality as they simply don't have enough detail to display well in high-definition. If you have cable or satellite service, you'll want to check with your provider to determine which packages include stations broadcasting in high definition, and if you need a different box or tuner to receive HDTV signals. You may also find the "Aspect Ratio" feature found in the On Screen Display Menu's "Display" option helpful in adjusting your picture. And, as more and more broadcasters change to a digital signal, you will be able to view all of your programming choices in stunning high definition-and the luxury of your personal home theater experience.

About Digital Channels

Currently, all broadcasters have an analog TV channel and a digital TV channel. The digital bandwidth has the capability of accommodating more than one program stream because each broadcaster's assigned digital channel carries a 19.39-megabit-per-second (Mbps) digital data stream. This allows the broadcaster the option of broadcasting a single program or dividing the digital data stream into multiple programming streams. These streams include the "major" channel specific to a broadcasting station, as well as any additional programming streams on the bandwidth, which are referred to as "minor channels" or "sub-channels," each broadcasting a different program. As a result, the numbering system for digital channels is different than that of traditional analog TV.

Digital Virtual Channel Number   Physical Channel Number
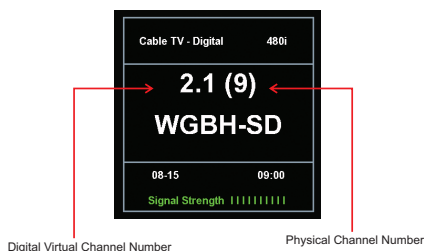
Here's how it works:

- The number in parentheses to the right is the actual physical channel number of the transmitter used to broadcast the network programming in your region
- Each physical channel is mapped to one or more digital channel numbers, known as "virtual channels," and represented by a number, followed by a dot

and then another number; for example, 7.1, 7.2, etc. (the old analog channel is always referenced to minor channel "0", as in 7.0, while 7.1 would represent the new digital television channel)

- The first number is the major channel used for all channels of a particular broadcasting station

- The number following the dot is the minor channel number assigned to each broadcaster's additional programming streams; digital television stations may have only one virtual channel, or as many as six

There are several ways to input digital television channels:

User Input (double-digit channels)	Channel Displayed
11.3	Channel 11.3
113	Channel 11.3

| User Input (single-digit channels)	Channel Displayed
052	Channel 5.2
5.2 + Ent	Channel 5.2

Controls and Connections

Front View

Use buttons on the right front side of your HDTV (or on remote control) for On
Screen Display (OSD), volume adjustment, channel selection, source, and turning
power on or off.

IR Receivers

Speakers
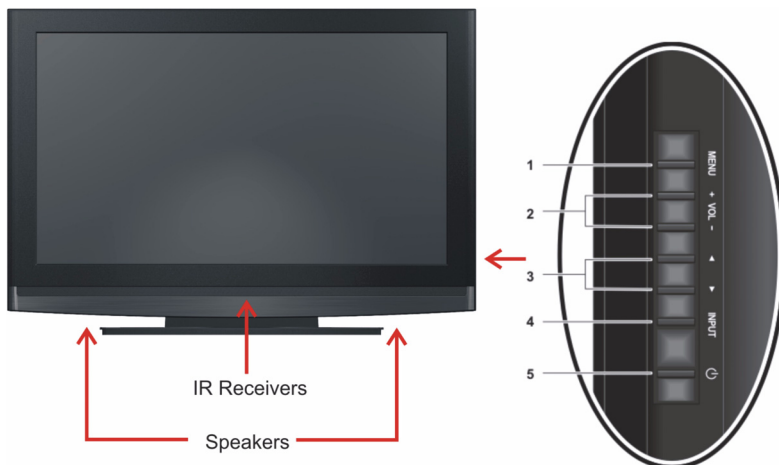
#	Item	Description
1	Menu	OSD menu ON/OFF
2	Volume ◀ / ▶	Increase/decrease sound or adjust selected features in OSD menus
3	Channel ▲ / ▼	Scroll up/down through channels or OSD menus
4	Source	Select active video source or a highlighted feature in OSD menus
5	Power	ON/OFF power button

Side Connectors
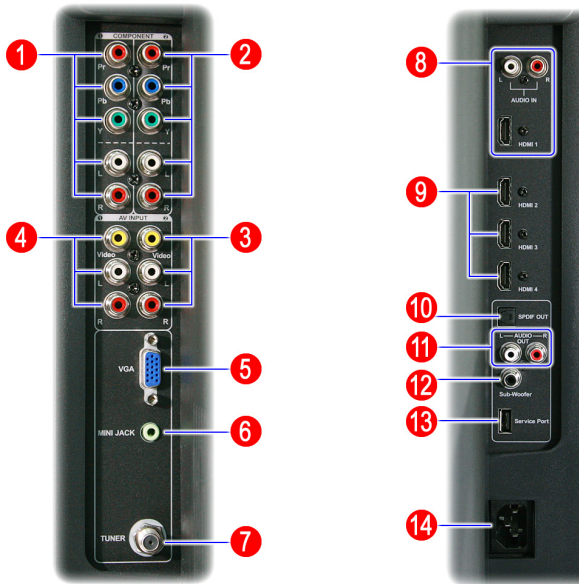
#	Item	Description
1	YPbPr1/Audio 1 (Right/Left)	Connect external video device like DVD or game system
2	YPbPr2/Audio 2 (Right/Left)	Connect external video device like DVD or game system
3	AV1 Video/Audio (Right/Left)	Connect an external video device like VCR (Audio Right/Left supports S-Video or AV input)
4	AV2 Video/Audio (Right/Left)	Connect an external video device like VCR (Audio Right/Left supports S-Video or AV input)
5	VGA	Connect personal computer using a 15-pin VGA cable
6	PC Audio	Connect personal computer u sing a 3.5mm mini-jack cable from PC's Audio Out
7	ANT (RF-input)	Connect antenna or cable service

#	Item	Description
8	HDMI 1 /Audio1 (Right/Left)	Connect external HDMI device like a DVD, cable/satellite receiver or personal computer; for analog Audio use, select Audio menu in On Screen Display (OSD) and use remote's left/right arrows to change HDMI to Analog
9	HDMI 2-3-4	Connect external HDMI device like a DVD, cable/satellite receiver or personal computer
10	SPDIF	Digital Audio out connection
11	Audio Out (Right/Left)	Connect an external audio amplifier
12	Subwoofer	Connect an external subwoofer
13	USB	Service port for Firmware update and maintenance
14	AC-IN (Power)	Connect to power source via supplied power cord

Note: See "Connecting Your HDTV" on page 20 for more information about connecting cable/satellite receivers, game consoles, VCR and DVD player/recorders, audio devices and your personal computer.

Additional information:

Quick Reference: HDTV Connection

YPbPr

The "Y" stands for the luminance of the signal; Pb and Pr refer to the color difference signals ("b" for blue, "r" for red). Provides improved color bandwidth over S-Video or composite video connections.

DVI-HDCP (Digital Visual Interface/High-bandwidth Digital Content Protection)

Provides superior level of digital video quality, typically used in cable/satellite receivers or DVD players. (Not Available)

## HDMI (High Definition Multimedia Interface)

Provide superior level of digital video quality; includes DVD, cable/satellite receivers or personal computers

S-Video Input (option)

The "S(uper)-Video" connection provides enhanced picture clarity for selected accessory sources such as a digital broadcast satellite service, video games, DVD and VHS. Accessory source must have S-Video output jack.

Inserting Remote Control Batteries

1   Remove the battery compartment cover

2   Insert the batteries corresponding to the (+) and (-) marks inside the battery compartment

3   Reattach cover
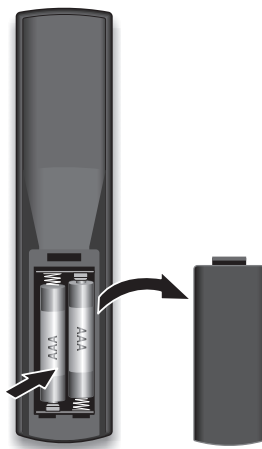
Precaution

•   Only use AAA batteries

•   Don't mix new and old batteries, which can result in cracking or leakage and may pose a risk for fire or personal injury

•   Make sure you Insert batteries according to (+) and (-) markings; incorrect battery installation can result in cracking or leakage and may pose a risk for fire or personal injury

•   Always dispose of used batteries in accordance with local laws and regulations

•   Keep all batteries away from children and pets

•   Remove batteries when the remote control will not be used for an extended period of time

English

Remote Control Features
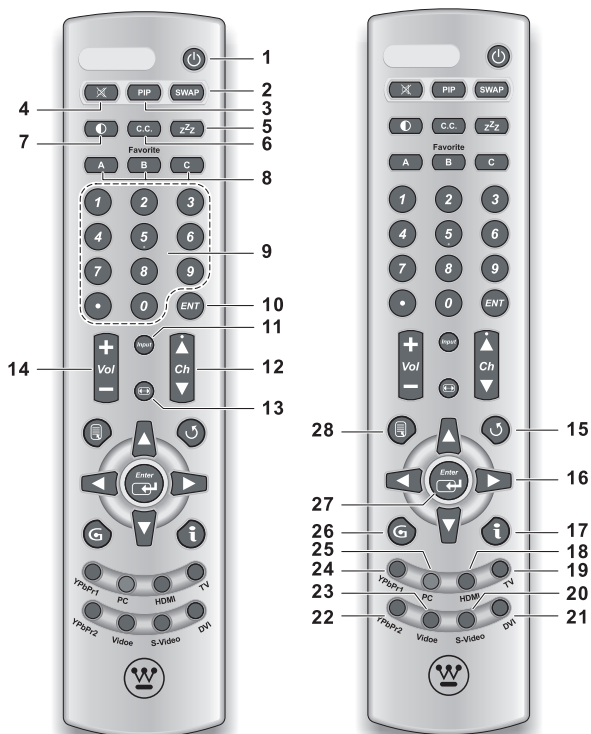
#	Item	Description
1	Power	Switch the power On/Off
2	SWAP	Switch between PIP and Main Picture (not available)
3	PIP	Display sub picture On/Off (not available)
4	MUTE	Turn the sound On/Off
5	SLEEP	Set sleep timer

#	Item	Description
6	CC	Turn Closed Caption On/Off
7	BACKLIGHT	Shortcut to adjust backlight adjustment
8	FAVORITE CHANNEL A / B / C	Jump to favorite channels (Hold button for 3 seconds to program favorite channel and input source)
9	CHANNEL NUMBER KEYS	Select specific channels Note: The Dot is used to input dash when selecting specific channels
10	ENT	Complete channel selection
11	INPUT	Display MP input menu
12	CH ▲ / ▼	TV Channel Up/Down adjustment
13	SCALING	Set video display format to "STANDARD" or "FILL"
14	VOL ◄ / ►	Volume Up/Down adjustment
15	LAST CHANNEL	Switch to the previous channel
16	▼ / ▲ / ◄ / ►	Navigate within OSD Menu
17	INFO	Display the source and channel information
18	HDMI	Switch to HDMI sources
19	TV	Switch to TV source
20	S-VIDEO	Switch to S-Video source (not available)
21	DVI	Switch to DVI source (not available)
22	YPbPr2	Switch to YPbPr2 source
23	AV	Switch to AV1 and AV2 sources
24	YPbPr1	Switch to YPbPr1 source
25	PC	Switch to VGA source
26		
27	ENTER	Make a selection

#	Item	Description
28	Menu	Turn OSD Menu On/Off

3 HDTV/ACCESSORY SETUP

Now that you're familiar with the basics of digital television and the various controls and connections for your HDTV, you're ready to enjoy its superb picture quality and sound, along with the ultimate convenience of connecting your game consoles, VCR, DVD, audio devices or personal computer.

> **Note:** If you have already performed the steps in the Quick Setup Guide, skip to the instructions specific to the accessory you want to connect.

Connecting Your HDTV

Power

1   Connect the supplied AC power cord to your HDTV's "AC In" jack and to a properly grounded AC outlet.

Plug the power cord ⟶

2   If you're using an antenna or your cable service, connect the antenna or cable (not supplied) to the "Antenna'" connector

3   If you're using a satellite receiver, connect to either the "HDMI" connector (See "Side Connectors" on page 13 for connector descriptions and locations)

4   Press the Power button on either the remote control or the side-mounted control panel to turn your HDTV on (it will take a few seconds to power up)

Power Buttom

Power
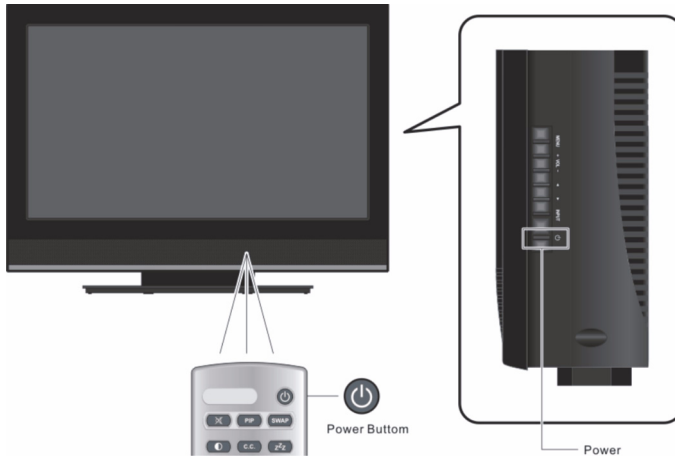
Choose Your TV Source

1   Press the "Menu" button on your remote or the side panel to access the On Screen Display (OSD)

2   Use the right/left arrow buttons to scroll across to the "TV" menu

3   Use the up/down arrow keys to select "Tuner Source"

4   Use the arrow keys to select your signal source "Air/Cable Auto"

•   If you use a rooftop or indoor antenna, select "Air"

•   If you use a cable service, select "Cable Auto", (depending on the frequency used by your cable service)

Note: When using a DVI or HDMI connection, the cable box or satellite receiver needs to be restarted to complete the HDCP authentication.

Determining Available Channels

1   When connected to an antenna, cable or other RF (radio frequency) source, you'll need to run "Autoscan"-available in the "TV" menu of the OSD in order for all available channels to be received

2   Before starting Autoscan select either Air (Antenna) or Cable for your RF input. Use the up/down arrow keys to scroll below "Tuner" to "Auto Scan"

3   Press "Enter" to start scanning for channels (identification of all analog and digital channels may take several   minutes)

> **Note:** Depending on your area, some channels shown may not be available for viewing.
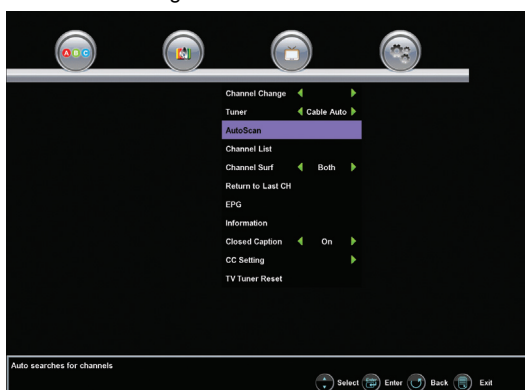
*   First Time connected to RF the system will automatically select the Autoscan function.
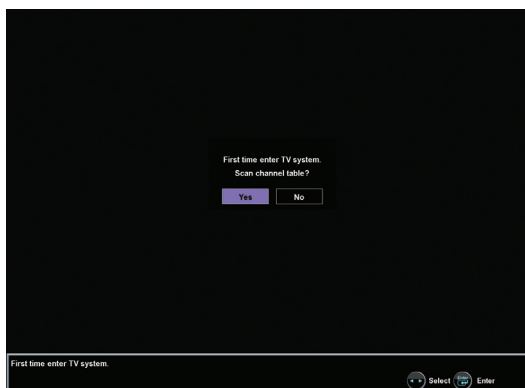
Set Your Time Zone

1   Scroll right to the "Settings" menu.

2   Use the up/down buttons to select "Time Zone".

3   Select your local time zone, which allows you to receive HDTV programming information.

4   Exit the OSD.

Connecting Your Personal Computer

Before making any connections, make sure all equipment is turned off.

Computer Settings

*   For optimal picture quality, set your computer's timing mode to VESA (Video Electronics Standards Association) 1920 x1080 at 60Hz
*   Refer to your computer's graphic card User Guide for directions to set this timing mode (many computers show 1024x768 as an alternative resolution)

Connection Types

*   VGA Connection

    *   Connect a 15-pin analog VGA cable (not supplied) from your computer's "VGA OUT" port to the HDTV's "VGA IN" port

    *   Connect a stereo mini cable from your computer's "AUDIO OUT" port to the HDTV's "AUDIO IN" port

Power

1   Turn on your HDTV (wait a few seconds for it to power up)

2   Turn on your computer

3   The HDTV will automatically adjust to the computer's resolution

Connecting Other Accessories

Following are the recommended connections to ensure optimal enjoyment of your accessory equipment with your HDTV.

Before making any connections, make sure all equipment is turned off.

DVD or Game System

Connect your DVD player or gaming system using following input connectors:

- HDTV's HDMI ports HDMI1 to 4 (HDMI cable not supplied) and corresponding Audio (Right/Left) connectors if you use the HDMI1 connector and analog Audio
- For analog audio use with HDMI, open the On Screen Display (OSD), select the "Audio" menu and use the left/right arrows to change "HDMI" to "Analog"
- For YPb/Pr1 and Audio1 (Right/Left) or YPb/Pr2 and Audio2 (Right/Left) connectors on the HDTV to (cable not supplied)

Video Cassette Recorder (VCR)

Use the Video 1 and Audio 1 (Right/Left) or Video 2 and Audio 2 (Right/Left) connector on your HDTV to connect your VCR (Cable not supplied).

Cable or Satellite Receiver

Connect your cable or satellite receiver using HDTV's HDMI port (HDMI cable not supplied) or YPb/Pr1 and Audio1 (Right/Left) or YPb/Pr2 and Audio2 (Right/Left) connectors on the HDTV to (cable not supplied).

Audio Equipment

Use your HDTV's "Audio Out" port to connect to an external audio amplifier (cable not supplied).

4 HDTV OPERATION

About the On Screen Display (OSD)

Your HDTV's On Screen Display (OSD) conveniently integrates all functions required for setup and operation. There are two ways you can access the OSD-either by pressing the remote control's "Menu" button (located just below the volume controls on the left side of the remote), or by pressing the "Menu" button on the HDTV's right-side control panel. You can select amongst any of the four menus by using your remote's ◄ / ► buttons. Similarly, each of the menus includes sub-menus, which can be selected by using the remote's ▼ / ▲ buttons.

1&4
3
-2
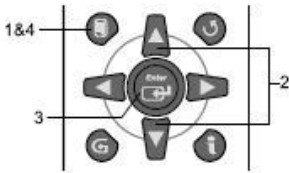
1. Press ⊡ on the remote control to display the Menu screen.
2. Press ▲ / ▼ to select the desired menu item.
3. Press *Enter* to select the menu item.
4. Press ⊡ to exit.

OSD Menus and Features

List of Speed Keys Menu

Initially, the "Favorite Keys" are set to "Speed Keys" with default settings. User can overwrite the current define setting by choosing one of menu option and hold either A, B, or C for about 5 second or longer. A list of available settings are displayed in which you choose within the list and select by pushing the "Enter" Button.

Speed Key Menu	Features Function Descriptions
A	Press and Hold A button on remote control for 5 seconds to store your favorite channel and input source. When ready you can select your setting by pushing enter button
B	Press and Hold B button on remote control for 5 seconds to store your favorite channel and input source. When ready you can select your setting by pushing enter button
C	Press and Hold C button on remote control for 5 seconds to store your favorite channel and input source. When ready you can select your setting by pushing enter button

Video Menu

The "Video" menu allows you to adjust the properties of the image you see on the screen by adjusting the display's brightness, contrast, color intensity and hue, picture clarity and sharpness. You can also adjust the backlight's intensity and, if necessary, restore the factory default video settings.

You have the option to select any of the 5 preset Video modes for individual preferences.

Audio/Video Menu Features	Adjustment/Descriptions
Screen Size	Adjusts ratio between picture width picture height (16:9 pictures will be displayed in original format): • Standard-conventional format used for viewing 4:3 programs in their normal format • Fill-format that horizontally stretches 4:3 pictures to the edge of the screen (some programs will be broadcasted with black or gray bars on the top and bottom or sides of the picture) • Overscan.
Style	Select from 5 different Video modes, (User, Movie, Sports, Game, Enhanced)

Audio/Video Menu Features	Adjustment/Descriptions
Brightness	Black level adjustment
Contrast	White level adjustment
Saturation	Intensity of color
Hue	Red/Green level adjustment
Sharpness	Picture clarity
Backlight	Intensity of HDTV lamp illumination
Color Temp	Select from 3 different color temperature
Calibration	Open up the Calibration Menu for advanced video adjustment
Style Reset	Resets video settings to factory default

Calibration Menu

The "Calibration" menu integrates advanced choices that allow you to optimize your HDTV experience, especially for Video setting and individual color adjustments.

Calibration Menu Features	Function Descriptions
Deinterlace	Turns on/off Deinterlace
3D Comb Filter	Turns on/off 3D Comb Filter. In on mode, the picture quality is better
Dynamic Contrast	Enhance dynamically the Black and White levels depending on the displayed picture or video
Skin Tone	Allow you to adjust the Skin tone
Blue Stretch	Allow you to adjust the Blue level
Green Stretch	Allow you to adjust the Green level
Red Stretch	Allow you to adjust the Red level
Noise Reduction	Select from 4 different mode for noise reduction (High, Medium, Low and off)
Reset	Resets video settings to factory default.

Color Temperature

The Color Temp menu allows you to adjust each color temperature (Warm, Neutral, Cool) individually.

In case of misadjustment it can be Reset to factory default.

Screen Size	◄ Standard ►		
Styles	◄ User ►		
Brightness	◄ 44 ►		
Contrast	◄ 57 ►		
Saturation	◄ 50 ►		
Hue	◄ 50 ►		
Sharpness	◄ 0 ►		
Backlight	◄ 100 ►	R	◄ 128 ►
Color Temp	◄ User ►	G	◄ 128 ►
Calibration	◄ No ►	B	◄ 128 ►
Adjustment	►		
Styles Reset	►		

Adjust picture to differen color temperature

Select Back Exit

Adjustment Menu

Only available in "PC" (VGA) input mode. Lets you adjust image and phasing.

Screen Size	◄ Standard ►		
Styles	◄ User ►		
Brightness	◄ 44 ►		
Contrast	◄ 57 ►		
Saturation	◄ 50 ►		
Hue	◄ 50 ►		
Sharpness	◄ 0 ►		
Backlight	◄ 100 ►		
Color Temp	◄ Neutral ►		
Calibration	◄ No ►		
Adjustment	►	Auto Sync	
Styles Reset	►	Horizontal Position	◄ 0 ►
		Vertical Position	◄ 0 ►
		Fine Tune	◄ 0 ►

Adjust settings for VGA input

Select Enter Back Exit

Audio/Video Menu Features	Adjustment/Descriptions
Auto Sync	Automatically centers the image to the middle of the screen by synchronizing both vertical and horizontal refresh rate and resolution
Horizontal Position	Manually adjust horizontal position of the screen image
Vertical Position	Manually adjust vertical position of the screen image
Fine Tune	Manually adjust the Phase control to eliminate Noise

Audio Menu

The "Audio" menu let you precisely configure your audio preferences to optimize your listening experience.
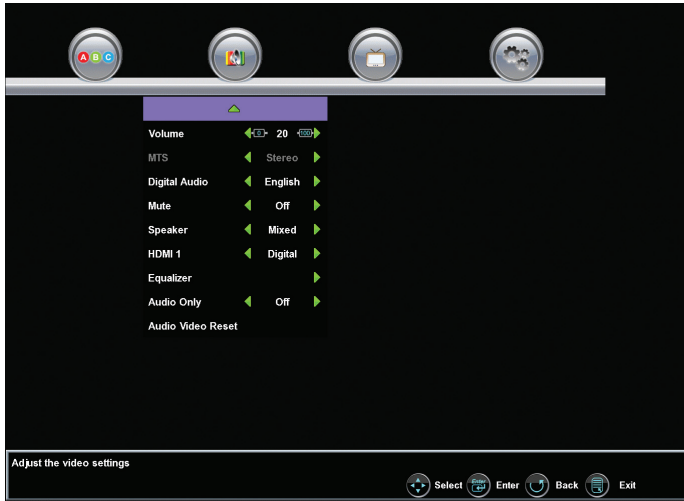
Audio/Video Menu Features	Adjustment/Descriptions
Volume	Adjust the volume by clicking left and right arrow keys on the remote control

Audio/Video Menu Features	Adjustment/Descriptions
MTS	Choose from three different MTS (Multi-Channel Television Sound) settings: • Mono • Stereo • SAP
Digital Audio	Enables language selection for digital channels
Mute	Turns audio on/off
Speaker	Turns internal speakers on/off or have both on (Mixed)
HDMI 1	Switch the HDMI audio input source to either" • Analog - RCA audio input • Digital - HDMI cable integrated audio input
Audio Only	Enables audio only, the picture (Backlight) will be turned off and can be reactivated with any button of the Remote Control
Equalizer	Choose from eight different audio settings: • User, Speech, Jazz, Classic, Rock, Electronic, Bass, Vocal
Audio Video Reset	Reset Audio/Video mode to factory default settings

Equalizer Menu

The "Equalizer " menu let you individually configure your audio preferences to optimize your listening experience.

Equalizer Menu Features	Adjustment/Descriptions
User	Allow you to adjust the preset mode according to your preference and listening experience.
Rock	Allow you to adjust the preset mode according to your preference and listening experience.
Vocal	Allow you to adjust the preset mode according to your preference and listening experience.
Bass	Allow you to adjust the preset mode according to your preference and listening experience.
Speech	Allow you to adjust the preset mode according to your preference and listening experience.
Jazz	Allow you to adjust the preset mode according to your preference and listening experience.
Electronic	Allow you to adjust the preset mode according to your preference and listening experience.
Classic	Allow you to adjust the preset mode according to your preference and listening experience.

TV Menu

The "TV" menu provides a broad array of functions you'll use during setup, as well as customizing various features such as closed captioning, favorite channels.

TV Menu Features	Feature/Sub-Menu Descriptions
Channel Change	Click the left and right arrow on the remote control to change the channel.
Tuner	Select your signal source: Air, Cable or Auto.
AutoScan	Select for automatic scanning of the tuner's range of frequencies for all viewable channels available.
Channel List	Allow you to check the current list of viewable Analog, Digital or Both TV channels available.
Channel Surf	Starts automatic channel surf by switching every 5 second to the next channel. The channel surf can be stopped by pressing the Enter button at the remote control.
Return to Last Channel	Returns to previously viewed channel.
Information	Displays information of channel, signal strength, date and time.

TV Menu Features	Feature/Sub-Menu Descriptions
Closed Caption	Allows you to turn closed captioning of audio on or off, select analog or digital modes, or personalize the captioning style; user-define style sub-menus provide choices for font, size, style, plus text and background colors and opacity.
CC Setting	Changes setting for closed captioning such as font, etc.
TV Tuner Reset	Reset TV mode to factory default setting.

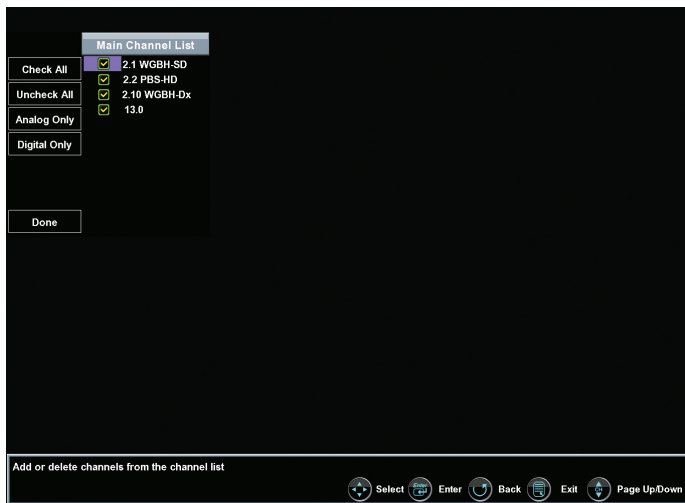## Add or delete additional TV channels

Use the OSD to access the TV Menu Feature

Select Add Channel

Add a channel by entering the physical channel number or a range.

Select Delete Channel

Delete a channel from the current list of viewable channels available.

Channel Number

Scroll to highlight a channel number from the list of available channels and press Enter to delete the channel. The OSD Menu has to be fully exit in order to delete the channel

Channel Skip

Highlight channel number and press Enter to switch to the selected Channel.

Settings Menu (Screen 1)

The "Setting" menu integrates still more choices that allow you control the appearance of the image you see on the screen, based on the selected source input, to manage various power-related functions to simplify your viewing experience and save power, to optimize your HDTV experience, from language selection to pertinent system and installation information.
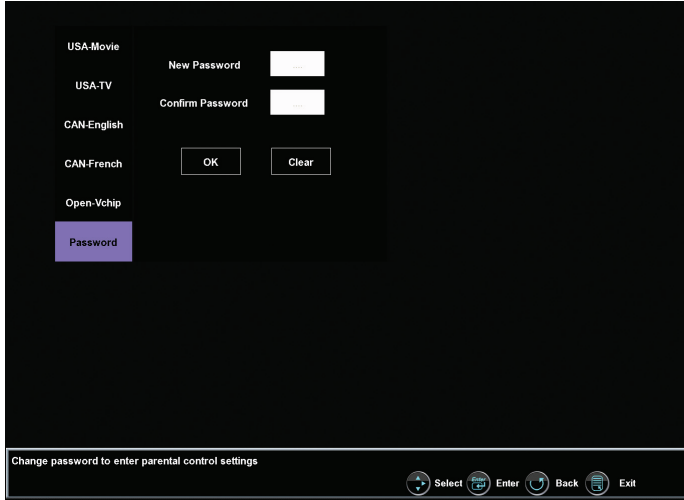

Setting Menu Features	Function Descriptions
Input Source	Let the user select the input source
Autosource™	Turns Autosource detection On/Off. In On mode Autosource can detect a new source which is plugged in the TV and switch input source setting of your HDTV to the source automatically.
Return to Last Input	Select to return to previous input source
Input Label	Allows current source input to changed to one of the labels in the input label list; if the label is already used by another source, the label will be reset to the default label

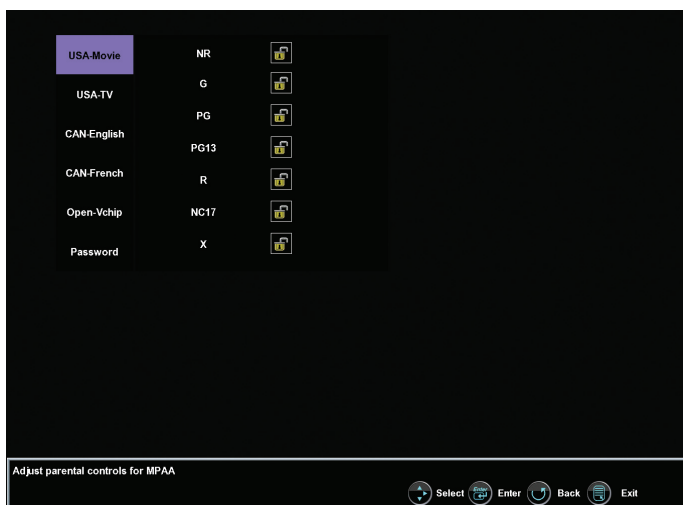| Setting Menu Features	Function Descriptions
Sleep Timer	Sets the High Definition LCD TV to turn off after a specified amount of time: • Off • 15 minutes • 30 minutes • 45 minutes • 60 minutes NOTE: The HDTV will take a few seconds to return from Sleep mode.
Parental Controls	Displays the parental control menu for password-controlled channels and content; sub-menus include lock-outs according to ratings, channels and content
OSD Timeout	Select On/Off for the OSD to leave the screen; when set to "On", the OSD will time out in one of three selected time frames: • 5 seconds • 10 seconds • 30 seconds
Transparency	Adjust the transparency level of the OSD
On/Off Timer	Set the time for the LCD TV to power on or off
Date and Time	Set the date and time of the LCD TV
Time Zone	Set the High Definition LCD TV to your local time zone
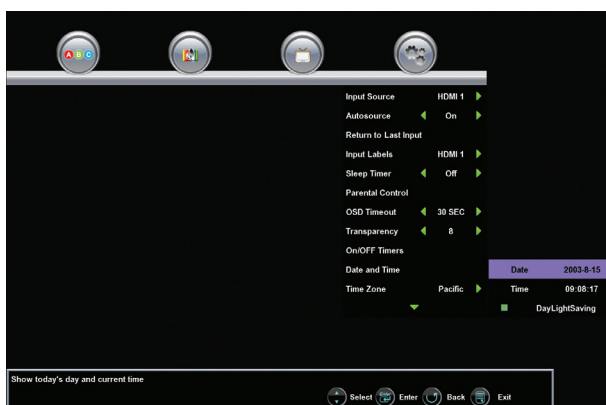
About Parental Controls

The Parental Controls feature allows you to block TV programs based on various ratings systems, as well as to lock out the HDTV's right side-mounted controls. The first time you enter the "Parental Control" menu, you will be taken to the password sub-menu to set up your four-digit password, which is required for using this feature. You will be prompted to enter your selected password any time you wish to lock or unlock selected programming ratings or channels.

Lock Channel

| Parental Control Menu Features	Descriptions and Definitions
Lock Channel	Lock or unlock the HDTV's right side-mounted controls.
US MPAA Rating	Lock or unlock programming according to MPAA Ratings.
US TV Rating	Lock or unlock programming according to TV rating and/or content.
CA English Rating	Lock or unlock programming according to Canadian English Ratings.
CA French Rating	Lock or unlock programming according to Canadian French Ratings.
Open-Vchip	Open V-chip technology is mandated by the FCC which can be programmed to adapt to changing standards.
Password	Select a new parental control password.

US MPAA Rating

US MPAA Ratings and Content Sub-Menu	
Rating	**Definitions**
NR	Not Rated
G	General audience - All ages admitted
PG	Parental Guidance suggested - Some material might be unsuitable for children
PG-13	Parental Strongly cautioned - Some material might be inappropriate for children under 13 years of age
R	Restricted - Viewers younger than 17 require accompaniment of a parent or adult guardian
NC-17	No Children 17 - Children under 17 are not Admitted
X	Adult audience only

US TV Ratings and Content

This sub-menu allows you to block programming according to US TV Ratings as well as content type.
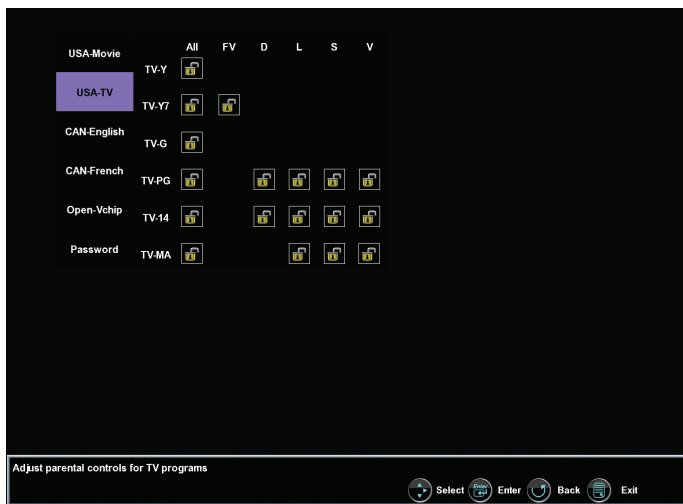
US MPAA Ratings and Content Sub-Menu	
Rating	**Definitions**
TV Y	All children
TV Y7	Directed to older children
TV G	General audience
TV PG	Parental guidance suggested
TV 14	Parents strongly cautioned
TV MA	Mature audience only

US MPAA Ratings and Content Sub-Menu	
Content	**Definitions**
All	All Content
FV	Fantasy Violence
D	Sexually Suggestive Dialog
L	Adult Language
S	Sexual Situations
V	Violence

Canadian English Ratings
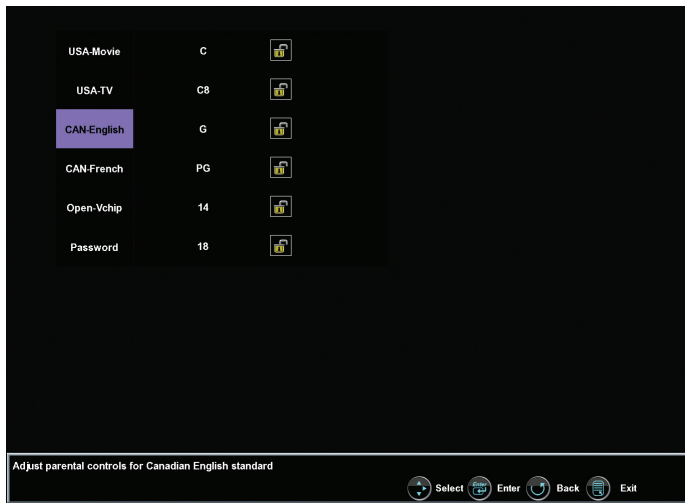
Rating	Definitions
C	Children
C8	Children over 8 years old

Rating	Definitions
G	General
PG	Parental Guidance
14	Over 14 years old
18	Adults

Canadian French Ratings

Adjust parental controls for Canadian French standard
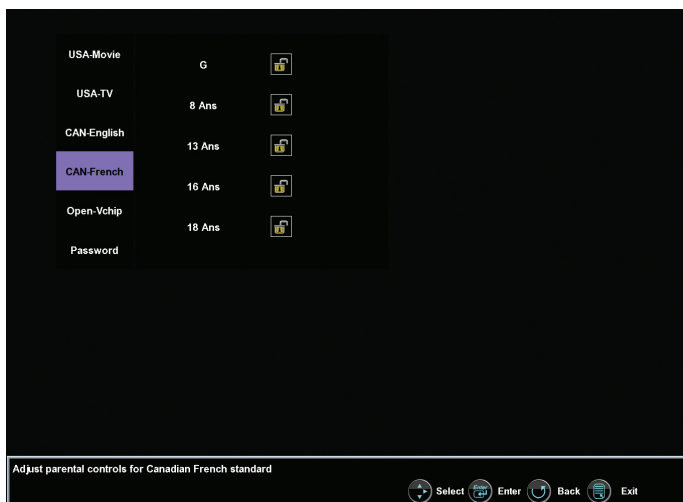
Rating	Definitions
G	General
8Ano	General but inadvisable for young children
13Ano	Over 13 years old
16Ano	Over 16 years old
18Ano	Over 18 years old

Settings Menu (Screen 2)
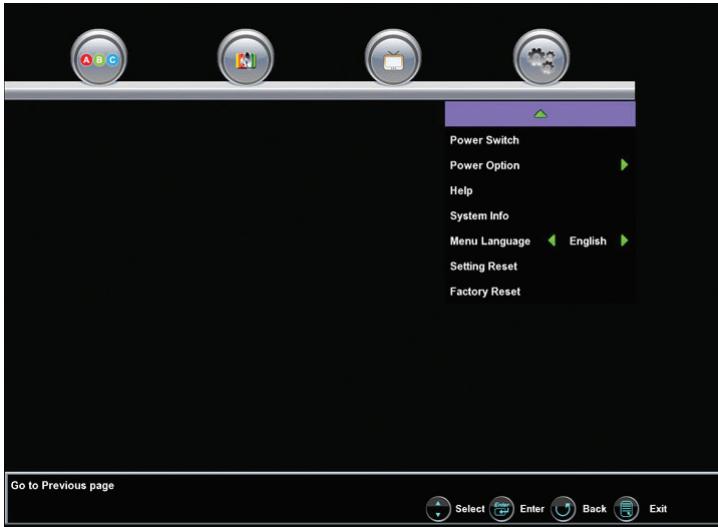
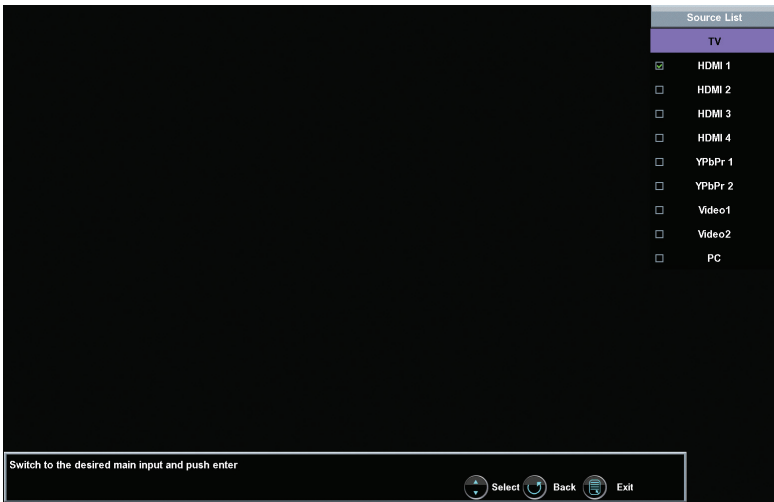| Setting Menu Features	Function Descriptions
Power Switch	Select to turn off TV
Power Option	To manage various power-related functions to simplify your viewing experience and save power
Help	Display a Quick Install Matrix for referencing connections
System Info	Access system information like Firmware version
Menu language	Select the OSD language from the following: • English • Spanish • French
Setting Reset	Reset setting mode to factory default settings
Factory Reset	Reset all of the HDTV's OSD menu settings (except parental controls and scanned TV channels) back to the factory default settings.

Power Option
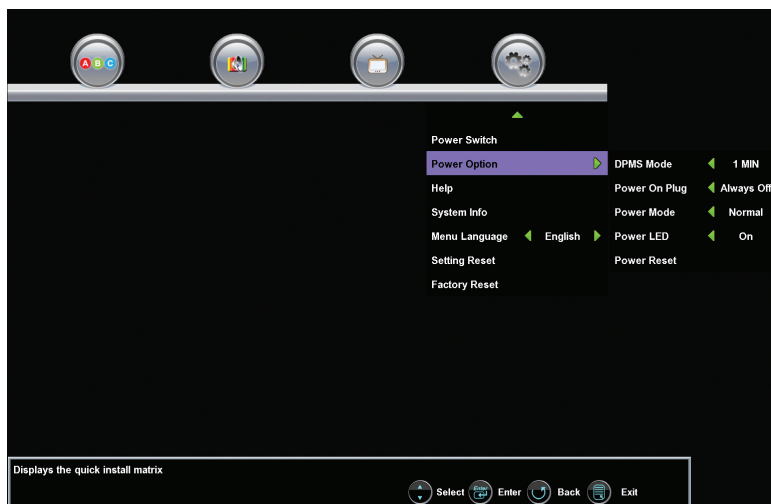
Power Menu Features	Function Descriptions
DPMS Mode	Lets you turn the DPMS (Display Power Management Signaling) On/Off; when "On", the display goes into Standby mode If there is no incoming signal from the selected input for off, 3-sec, 10-sec or 30-sec interval.
Power On Plug	Enables/disables feature that allows your HDTV to automatically turn back on when power is restored.
Power Mode	Set the power boot up mode: • E. Saver - takes longer to come back from Standby but requires less power • Normal - faster return from Standby but requires more power.
LED	Turns the HDTV's LED on or off.
Power Reset	Reset power mode to factory default settings.

Input Menu

To change the Main Picture source, press the Input button on the remote to display the Main Picture (MP) input menu. When the input menu is open, press the Input button again to switch to the next input or use the up/down arrows to scroll through the inputs and the press enter to switch to the highlighted input. The input menu will timeout after 5 seconds and switch to the input that is currently highlighted.

Source List
TV
☑ HDMI 1
☐ HDMI 2
☐ HDMI 3
☐ HDMI 4
☐ YPbPr 1
☐ YPbPr 2
☐ Video1
☐ Video2
☐ PC

Switch to the desired main input and push enter

Select   Back   Exit

5 Appendix

42-inch High Definition LCD TV Specifications

Model Name		TX-42F450S
Panel	Type	42" TFT (Thin Film Transistor), Active Matrix LCD, 1920 x 1080 vertical stripe; anti-glare coating
	Color	16.7 million colors
	Aspect Ratio	16:9
Viewing Angles		176° (H) / 176° (V)
Input Signal	Video/Audio	RGB Analog * 1 (75 ohms, 0.7 Vp-p)/Mini-Stereo *1 • H/V separated (TTL) for PC HDMI-HDCP * 4 / RCA (L/R) * 1 • fh: 30-80 kHz, fv: 50-75 Hz NTSC TV system NTSC / HDTV * 1 Component Video * 2 / RCA (L/R) Stereo * 2 Composite * 2 / RCA (L/R) stereo * 2
Output Signal		RCA (L/R)/SPDIF/SUBWOOFER OUT
HDTV Compatibility		480i, 480p, 720p, 1080i, 1080p
PC Compatible	Recommended	1920 x1080@ 60Hz
	Supported	1024 x 768 @ 75 Hz 800 x 600 @ 60, 75 Hz 1024 x 768 @ 60Hz 1280 x 800 @ 60Hz 640 x 480 @ 60, 75 Hz
Speaker Output		10W (x2 Channels)
Audio Support		Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. DOLBY DIGITAL
Power	Voltage	120VAC, 60HZ, 5.5A

Temperature	Operating	15 to + 35° C (Hum < 75%)
	Storage	10 to + 50° C (Hum < 35%)
Humidity (Relative)	Operating	20 to 80% non-condensing
	Storage	20 to 90% non-condensing
Altitude	Operating	0 to 2,000 m
	Storage	0 to 12,000 m
Dimension	Physical	42.1", 41.98" x 5.06" x29.10"(with Base) 42.1", 41.98" x 5.06" x 26.93"(w/out Base)
Weight	Gross/Net	29.4 kg / 24.6 kg 64.83lbs. (with Base) 54.24 lbs. (w/out Base)
Regulations		UL/C-UL, FCC-B
Power Consumption Mode	On	<250W Typical (Blue LED)
	Active Off	• <1W (Amber LED) in E-Mode • <30W (Amber LED) Normal Mode

Warning: Do not set the graphics card in your computer to exceed these refresh rates; doing so may result in permanent damage to the High Definition LCD TV.

Note: Product Specifications are subject to change without notice.

47-inch High Definition LCD TV Specifications

Model Name		TX-47F450S
Panel	Type	47" TFT (Thin Film Transistor), Active Matrix LCD, 1920 x 1080 vertical stripe; anti-glare coating
	Color	16.7 million colors
	Aspect Ratio	16:9
Viewing Angles		176° (H) / 176° (V)
Input Signal	Video/Audio	RGB Analog * 1 (75 ohms, 0.7 Vp-p)/Mini-Stereo *1
		• H/V separated (TTL) for PC HDMI-HDCP * 4 / RCA (L/R) * 1
		• fh: 30-80 kHz, fv: 50-75 Hz NTSC TV system NTSC / HDTV * 1 Component Video * 2 / RCA (L/R) Stereo * 2 Composite * 2 / RCA (L/R) stereo * 2
Output Signal		RCA (L/R)/SPDIF/SUBWOOFER OUT
HDTV Compatibility		480i, 480p, 720p, 1080i, 1080p
PC Compatible	Recommended	1920 x1080@ 60Hz
	Supported	1024 x 768 @ 75 Hz 800 x 600 @ 60, 75 Hz 1024 x 768 @ 60Hz 1280 x 800 @ 60Hz 640 x 480 @ 60, 75 Hz
Speaker Output		10W (x2 Channels)
Audio Support		
		Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are registered trademarks of Dolby Laboratories. DOLBY DIGITAL
Power	Voltage	120VAC, 60HZ, 6.0A
Temperature	Operating	15 to + 35° C (Hum < 75%)
	Storage	10 to + 50° C (Hum < 35%)

Humidity (Relative)	Operating	20 to 80% non-condensing
	Storage	20 to 90% non-condensing
Altitude	Operating	0 to 2,000 m
	Storage	0 to 12,000 m
Dimension	Physical	47", 46.08" x 4.98"x31.37"(with Base) 47", 46.08" x 4.98"x 29.23"(w/out Base)
Weight	Gross/Net	34.6 kg / 29.35 kg 76.29lbs. (with Base) 64.72lbs. (w/out Base)
Regulations		UL/C-UL, FCC-B
Power Consumption Mode	On	<300W Typical (Blue LED)
	Active Off	• <1W (Amber LED) in E-Mode • <35W (Amber LED) Normal Mode

Warning: Do not set the graphics card in your computer to exceed these refresh rates; doing so may result in permanent damage to the High Definition LCD TV.

Note: Product Specifications are subject to change without notice.

Troubleshooting

No Power
- Make sure power cord is securely connected to the "AC In" jack on the back of the High Definition LCD TV.
- Make sure AC power cord is securely connected to the AC socket.
- Plug another electrical device (such as a radio) to the power outlet to verify that the outlet is supplying the proper voltage.
- When set to E. Saver, the TV will take longer to turn on. Change the Power menu setting to Normal to improve power on time.

Power is suddenly turned off
- Check if Sleep Timer is set. If so, turn it off.
- Check if Inactivity Off is set. If so, turn it off.

Remote Control Does Not Work
- Press only one button at a time.
- Make sure batteries are inserted correctly.
- Replace batteries with new ones if necessary.

Remote Control Code Not Found in a "Universal" Remote
- Purchase a separate "learning" remote control.
- Go to *www.westinghousedigital.com* for a list of remote codes.

Image Quality Issues
- For the best TV image quality, "Standard Definition" TV content should be viewed in 4:3 format.

No Picture
- Check the video connection.
- Make sure the video cable connected to the High Definition LCD TV is tightly secured to the video output port on the back of the computer. If the other end of the video cable is not attached permanently to the High Definition LCD TV, secure it tightly.
- Adjust brightness and contrast.
- If you are using a Macintosh computer older than G3, you need a Macintosh adapter.
- Make sure that the input source you are connected to corresponds to the source on the High Definition LCD TV.
- Verify that the antenna is properly connected.

No Picture when I connect VGA cable or "No Input Signal"

• Check VGA cable connection.
• Lower the video resolution on the computer and try again.

Picture is cut off/with sidebar screen.

• Use "Auto Adjust".
• Make sure the aspect ratio is set correctly.

Blocky images appear in TV mode.

• Check your antenna connection. If necessary, rotate the antenna and wait up to 10 seconds for signal.
• Reduce signal splitters and excessively long cables.
• Replace poor antenna cables and/or connectors to improve signal quality.

Wrong or Abnormal Colors

• If any colors (red, green or blue) are missing, check the video cable to make sure it's securely connected. Loose or broken pins in the cable connector could cause an improper connection.
• Connect the High Definition LCD TV to another computer.

Snow Appears on Screen

• Check your antenna connection. If necessary, rotate the antenna and wait up to 10 seconds for signal.
• Check the TV/CATV selection.
• Make sure the external device is HDCP compliant.

There's No Sound

• Check the audio connection.
• If MUTE appears on the screen, press the "MUTE" button on the remote control to turn the function off.
• Check the audio settings to see if the HDTV audio is set to SAP or minimum.
• Press the Volume + (Up) key on the remote control.

Parental Control Password is "LOST"

• While rare, if this should happen, select "PASSWORD EDIT" and enter "0000" to reset the password.

Where Can I Find More Help?

• Log on to: www.westinghousedigital.com
• Contact Westinghouse Customer Service at (866) 287-5555 or write us at service@westinghousedigital.com

Cleaning the High Definition LCD TV

- **MAKE SURE THE HIGH DEFINITION LCD TV IS TURNED OFF**
- **NEVER SPRAY OR POUR ANY LIQUID DIRECTLY ONTO THE SCREEN OR CASE**

To clean the screen:

1   Wipe the screen with a clean, soft lint-free cloth. This removes dust and other particles.

2   If still not clean, apply a small amount of non-ammonia, non-alcohol based glass cleaner onto a clean, soft lint-free cloth and wipe the screen.

To clean the case:

1   Use a soft, dry cloth.

2   If still not clean, apply a small amount of non-ammonia, non-alcohol based, mild non- abrasive detergent onto a clean, soft lint-free cloth, then wipe the surface.

Disclaimer

Westinghouse Digital does not recommend the use of any ammonia or alcohol-based cleaners on the High Definition LCD TV screen or case. Some chemical cleaners have been reported to damage the screen and or High Definition LCD TV case. Westinghouse Digital will not be liable for damage resulting from use of any ammonia or alcohol-based cleaners.

# Wall mount and Base removal for the 42"/47" HD LCD TV
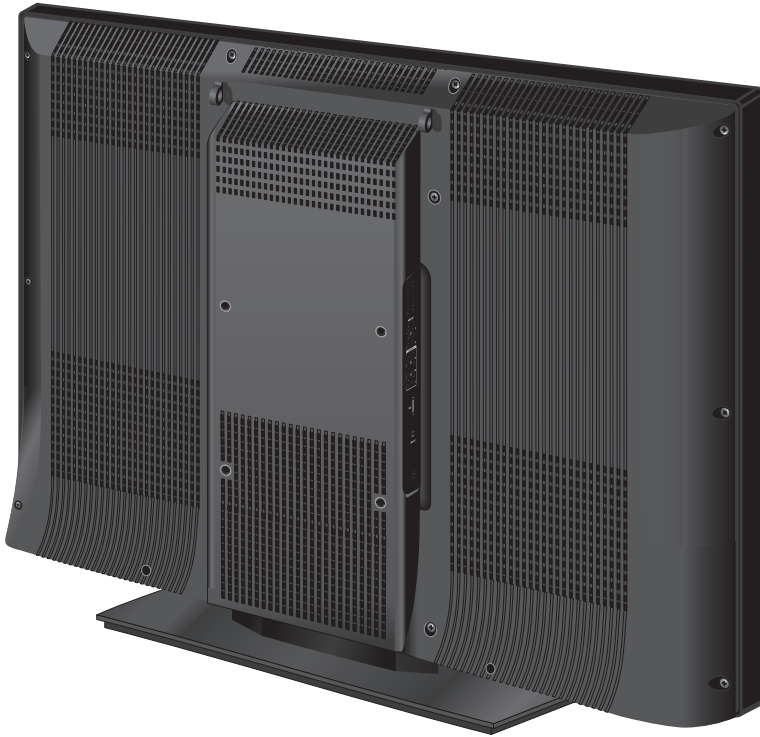
The TV has been fitted with one set of VESA mounting holes. The holes are spaced 200 mm equally apart for the 42"/47" product. These mounting location are provided strictly as an option to the user for wall mounting.

It is the responsibility of the user to use a UL Listed Wall Mount Unit rated to support the weight of this TV.   Please consult authorized service personnel for the installation of this Unit. Incomplete or inadequate mounting of the unit to the wall may cause it to fall down, resulting in potentially serious injury.
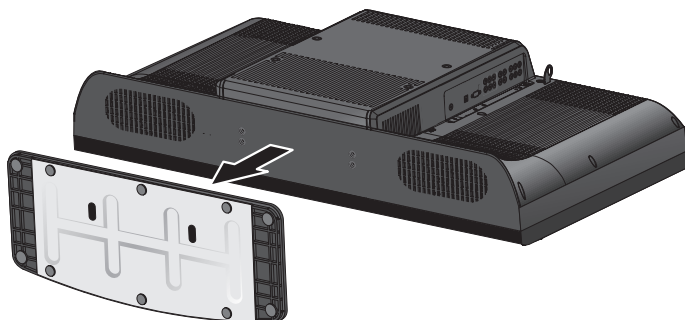
1   Lay the LCDTV with front bezel down on a soft and clear area. Please make sure that there is no any foreign objects on the surface to avoid any scratch or damage of the LCD panel.
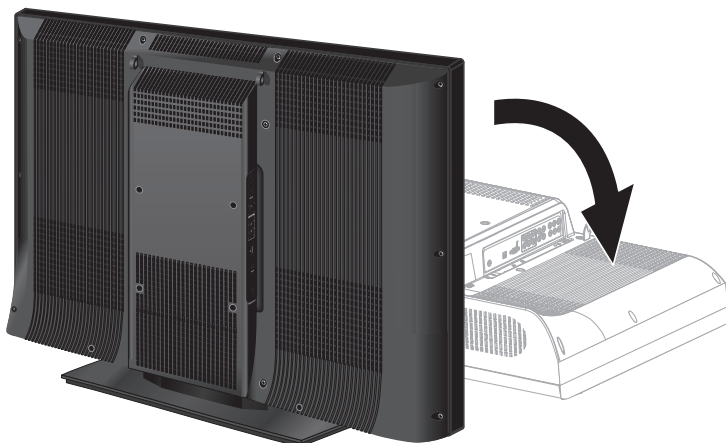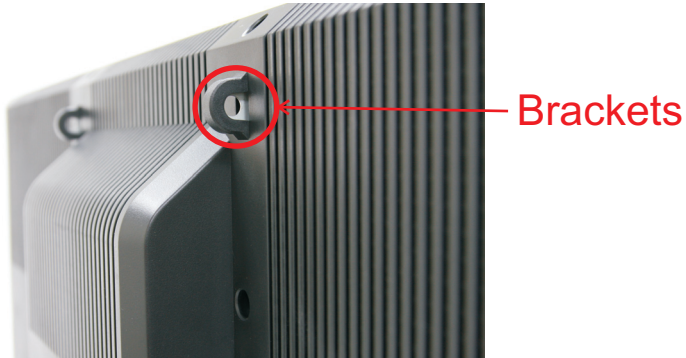

2   Remove the four screws as shown.
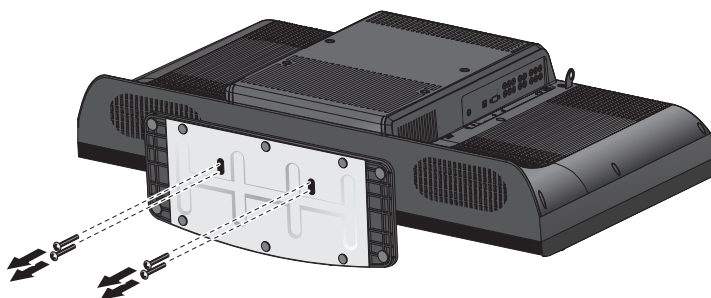
3   Slowly remove the base from the LCD TV.

Safety bracket Options

Brackets

Anti-tip over option:

This TV has two small metal brackets on the back side of the TV. These two brackets have a circular cut out in the center. The brackets are to serve as an "anti-tipover" option and/or theft deterrent.

If used as an "anti-tip over" aid, it is the responsibility of the user to securely anchor the brackets to a surface that can support the weight of the TV.

(Note: at no time do we advocate using these brackets to support the entire weight of the TV.) These brackets must be used in conjunction with TV's provided base. The brackets are to be used as an additional safety precaution option.

Theft deterrent option:

If used as a theft deterrent, much like the "anti-tipover" application, the brackets can aid in anchoring the TV.