

Please read this manual carefully before using this TV set and keep it for future reference.

LCD TV

L3249

Thank you for choosing Legend. Need help fast?

Read your Quick Start Guide and User Manual first for quick tips and instructions on using your Legend product.

IMPORTANT !!!

If you have read the instruction manuals and still need assistance, please call us at the toll free number below.

1-866-96-LEGEND

Mon. - Fri.7:30am-5pm PST



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.

DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE. **CAUTION:** TO PREVENT ELECTRIC SHOCK DO NOT USE THIS POLARIZED PLUG WITH AN

EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BEFULLY INSERTED TO PREVENT BLADE EXPOSURE.

CAUTION: These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

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.

PERSONNEL

6) Clean only with dry cloth.

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

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

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

10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

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

12) Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer,

or sold with the apparatus. When a cart is used, use caution when moving the cart/

Apparatus combination to avoid injury from tip-over.

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

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

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

16)The mains plug or appliance inlet is used as the disconnect device, remain it readily operable during the apparatus normal use.

Class I apparatus shall be connected to a mains socket outlet with a protective earthing connection.



Introduction

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Controls

This is a simplified representation of the TV front panel, side panel control buttons and side inputs.



TV Side panel controls and connections

1.MENU: Menu display. Press to access the on-screen menu display

2.INPUT: Press to access the input source mode. Press repeatedly to change the source to the one you want to watch. In the MENU screen, the INPUT button serves as the ENTER button.

- 3.VOL +/-: Press to adjust the volume. In the MENU screen, these buttons serve as left/right buttons.
- 4.CH +/-: Press to scan through channels. To scan quickly through channels, press and hold down

either +/-. In the **MENU** screen, these buttons serve as up/down buttons.

5. **POWER**: Press to turn on and off the TV.

6.USB input: Connecta USB flash drive to view JPEG images or listen to MP3 songs.

7.Av2 AUDIOIN: Connect the audio L/R cables from the video signal source to these jacks.

8. AV2 VIDEO IN: Connects the composite video cable from an external signal source to this jack.

9. Headphone jack : Headphone audio output terminal.

10. HDMI IN: Connect a HDMI device to receive digital audio and uncompressed digital video signals.

11. Remote Sensor : Receives IR signals from the remote control.

Do not put anything near the sensor ,which may block the remote control signal.

Connection Options

Back panel connections



- 1. Digital Audio Output: Connect various types of digital audio equipment. NOTE: In standby mode, these ports will not work.
- 2. **DVI Audio In:** When using a DVI to HDMI adapter, connect the audio signal to these jacks.
- 3. Antenna Input: Connect cable or antenna signals to the TV, either directly or through your cable box.
- 4. HDMI In: Connect a HDMI device to receive digital audio and uncompressed digital video.
- 5.VGA Audio In: Connect the audio L/R cables from a computer to this jack.
- 6.VGA Video In: Connect a video cable from a computer to this jack.
- 7. VIDEO In: Connects the video signal from a video device.
- 8. Component Video In: Connect a component video device to these jacks.
- 9. AUDIO In: Connect the audio L/R cables from the video signal source to these jacks.
- 10. S-VIDEO In: Connect the S-Video cable from an external signal source to this jacks.
- 11. COMPONENT AUDIO In: Connect the audio L/R cables from the component video signal source to these jacks.
- 12. AUDIO In: Connect the audio L/R cables from the S-Video signal source to these jacks.
- 13. AUDIO Out: Connect the audio L/R cables to your audio equipment.

The remote control cannot be operated unless the batteries are properly loaded. When using the remote control, aim it at the remote sensor on the TV.

Function introduction



1.POWER

- Press to turn on and off the TV. 2. TV DVD SETBOX CABLE VCR AUD
- To select one of the system modes in which the remote control can be used. 3.PICTURE
- Press repeatedly to cycle through the available picture modes. 4. **AUDIO**
- Press to cycle through different sound settings.
- 5.INPUT
- Show the input source. 6.**MUTE**
- Switches the video sound on or off. 7.VOLUME UP/DOWN
- Press to adjust the volume.
- 8.MENU
- Press to open the on-screen menu. 9.THUMBSTICK (Up/Down/Left/Right)
- Allows you to navigate the on-screen menus and adjust
- the system settings to your preference.
- 10.SLEEP button
- Press to display the sleep timer option.
- 11. USB: Press to switch input source to USB in.
- 12. MTS/SAP
 - Selects MTS sound: Mono, Stereo, and SAP in Analog mode. Change the audio language in DTV mode.
- 13.GUIDE
 - Press to display the quide when you are watching analog or digital channels.
- 14.CCD(closed caption)
 - Select a closed caption.
- 15.HDMI:Press to select a device connected to the HDMI input
- 16.PC:Press to select the computer connected to the VGAinput
- 17 Number buttons Press to change a channel.
- 18. button
- Press to select digital channels. For example, to enter "54-3", press "54", "•" and "3".
- 19.RECALL
- Press to jump back and forth between two channels. 20. CHANNEL UP/DOWN
- Press to scan through channels. To scan quickly between the last two channels, press and hold down either +/-. 21.EXIT
- Clears all on-screen displays and returns to TV viewing from any menu. 22.ENTER
- Accesses the highlighted item in the on-screen menu 23.DISPLAY
 - Press to display the TV status information on the top of the TV screen.
- 24.USB Functions
- Control the USB System.
- ► Stop ► Play/Pause REC REPEAT Repeat
- 25.FREEŻE
 - Press once to display a frozen image of the current program, but audio continues. Press again to return to the program.
- 26.CH.LIST
- Open the channellist in TV.
- 27.FAV.LIST
- Press to open the favorite channel list in TV.
- 28.ARC(Aspect Ratio Control)
 - Press to change the aspect ratio.

Accessories







Remote control

Owner`smanual

Alkaline battery (AAA) \times 2

Antenna Connection

Over-the-air TV reception quality will depend on your antenna type, antenna location and antenna positioning.





To improve the picture quality in a poor signal area, please purchase a signal amplifier and install properly.
 If the antenna needs to be split for two TV's, install a "2-Way Signal Splitter" in the connections.
 To install the antenna properly please contact a professional in your area.

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

Choose Your Connection

There are several ways to connect your television, depending on the components you want to connect and the quality of the signal you want to achieve. The following are examples of some different ways to connect your TV with different input sources.

Connecting a VCR

To avoid picture noise (interference), leave an adequate distance between the VCR and TV.

Connection Option 1

Set VCR output switch to channel 3 or 4 and then tune the TV to the same channel number.

Connection Option 2

1. Connect the audio and video cables from the VCR's output jacks to the TV input jacks, as shown in the figure. When connecting the TV to VCR, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red). If you connect a S-VIDEO output from VCR to the S-VIDEO input, the picture quality is improved; compared to connecting a regular VCR to the Video input.

2. Insert a video tape into the VCR and press PLAY on the VCR. (Refer to the VCR owner`s manual.)

3. Select the input source with using the **INPUT** button on the remote control, and then press \blacktriangle / \checkmark button to select the source, press **ENTER** button to confirm.



External A/V Source Setup

How to connect

Connect the audio and video cables from the external equipment's output jacks to the TV input jacks, as shown in the figure.

When connecting the TV to external equipment, match the jack colors (Video = yellow, Audio Left = white, and Audio Right = red).

How to use

1. Select the input source with using the $\ensuremath{\mathsf{INPUT}}$ button on the remote control.

- 2. Press \blacktriangle / \bigtriangledown button to select the desired source.
- 3. Press ENTER button to confirm.
- 4. Operate the corresponding external equipment.



1. Connect the DVD video outputs (COMPONENT) to the YPb Pr jacks on the TV and connect the DVD audio outputs to the YPbPr Audio IN jacks on the TV, as shown in the figure.

2. If your DVD only has an S-VIDEO output jack, connect this to the S-VIDEO input on the TV. as shown in the figure.

Note

If your DVD player does not have component video output, use S-Video.

How to use

1. Turn on the DVD player, insert a DVD.

2. Use INPUT button on the remote control to select component mode.

3. Press Play button on external equipment for program play.

4. Refer to the DVD player's manual for operating instructions.

Component Input ports

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

Component ports on the TV	Υ	Pb	Pr
Video output ports on DVD player	Y Y Y Y	Pb B-Y Cb P _B	Pr R-Y Cr P _R



DVD

Connecting a DTV(digital TV)

This TV can receive Digital Over-the-air/Cable signals without an external digital set-top box. However, if you do receive Digital signals from a digital set-top box or other digital external device, refer to the figure as shown below. This TV supports HDCP (High-bandwidth Digital Contents Protection) protocol for Digital Contents (480p,720p,1080i).

How to connect

Use the TV's COMPONENT, VGA or HDMI jack for video connections, depending on your set-top box connector. Then, make the corresponding audio connections.

How to use

 Turn on the digital set-top box. (Refer to the owner's manual for the digital set-top box.)
 Use INPUT on the remote control to select COMPONENT, VGA or HDMI source.

Signal	COMPONENT	HDMI
480i	Yes	Yes
480p	Yes	Yes
720p	Yes	Yes
1080i	Yes	Yes
1080p	Yes	Yes



Digital Set-top Box

Connecting a digital audio output

Send the TV's audio to external audio equipment (stereo system) via the Digital Audio Output (Optical) port.

How to connect

1. Connect one end of an optical cable to the TV Digital Audio(Optical) Output port.

2. Connect the other end of the optical cable to the digital audio (optical) input on the audio equipment. See the external audio equipment instruction manual for operation.

Note

When connecting with external audio equipments, such as amplifers or speakers, please turn the TV speakers off.



Caution: Do not look into the optical output port. Looking at the laser beam may damage your vision.





Connecting a computer

How to connect

1. To getthe bestpicture quality, adjust the VGA graphics card to 1024x768.

2. Use the TV`s VGAor DVI (Digital Visual Interface) Audio IN port for audio connections, dependingon your computer connector.

■ If the graphic card on the computer does not output analog and digital RGB simultaneously, connect only one of either VGAIN or HDMI IN to display the VGA on the TV.

■ If the graphic card on the computer does output analog and digital RGB simultaneously, set the TV to either VGA or HDMI; (the other mode isset to Plugand Play automatically by the TV.)

3. Then, make the corresponding audioconnection. If using a sound card, adjust the VGA sound as required.

Howtouse

1. Turnon the computerand the TV.

2. Use INPUT on the remote control to select VGA or HDMI source.

3. Check the image on your TV. There may be noise associated with the resolution, vertical pattern, contrast or brightness in VGAmode. If noise is present, change the VGAmode to another resolution, change therefresh rate to another rate or adjust the brightness and contrast on the menu until the picture is clear. If the refresh rate of the VGA graphic card cannot be changed, change the VGAgraphic card or consult the manufacture of the VGA graphiccard.

Note

1.Use a DVI cable.

2. Avoid keeping a fixed imageon the TV's screen for a long period of time. The fixed image may become permanently imprinted on the screen.

3. The synchronization input form for Horizontal and Vertical frequencies is separate.

Resolution

Mode	Resolution	Frame frequency (Hz)
VGA	640x480	60Hz
	000000	60Hz
SVGA	800x600	75Hz
VCA	4004 700	60Hz
AGA 1024X768	75Hz	



HDMI and DVI input

When the source device(DVD player or SetTop Box) supports HDMI

How To Connect

1. Connect the source device to HDMI port of this TV with an HDMI cable(not supplied with this product).

2. No separated audio connection is necessary.

How To Use

If the source device supports Auto HDMI function, the output resolution of the source device will be automatically set to 1280x720p.

If the source device does not support Auto HDMI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the source device to 1280x720p. Select HDMI input source in input source option of Select Main source menu.

When the source device(DVD player or Set Top Box) supports DVI

How To Connect

1. Connect the source device to HDMI port of this TV with a HDMI-to-DVI cable(not supplied with this product).

2. Aseparated audio connection is necessary.

3. If the source device has an analog audio output connector, connect the source device audio output to DVI Audio In port located on the left side of HDMI port.

How To Use

If the source device supports Auto DVI function, the output resolution of the source device will be automatically set to 1280x720p.

If the source device does not support Auto DVI, you need to set the output resolution appropriately. To get the best picture quality, adjust the output resolution of the source device to 1280x720p.

Press the INPUT button to select HDMI input source in input source option of Select Main source menu.

Cable sample

HDMI Cable (not supplied with the product)
HDMI to DVI Cable (not supplied with the product)
Analog Audio Cable (Stereo to RCA type) (not supplied with the product)

Connecting Headphones

You can connect a set of headphones to your set if you wish to watch a TV programme without disturbing the other people in the room.



Plug a set of headphones into the 3.5mm mini-jack socket on the side panel of the set.

Note

 Prolonged use of headphones at a high volume may damage your hearing.
 You will not receive sound from the speakers

when you connectheadphones to the system.

Power source



TO USE AC POWER SOURCE

Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard polarized AC outlet.

Note

■ Never connect the AC line cord plug to other than the specified voltage. Use the attached power cord only.

If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade. It is the user's responsibility to have an electrician replace the obsolete outlet.
 If you cause a static discharge when touching the unit and the unit fails to function, simply unplug the unit from the AC outlet and plug it

back in. The unit should return to normal operation.

Removing the table stand and installing a wall mount bracket

HL42XK1



Remove 4X M4 screws securing the stand to the TV, then remove the stand.

HL26R1(4X M4), HL32R1(5X M4), HL42XR1(4X M4), HL26K1(4X M4), HL32K1(4X M4), HL32XK1(4X M4), HL32P1(4X M4)



Use 4X M6 screws to secure the wall bracket (not supplied) to the back of your TV.

HL26R1(4X M4), HL32R1(4X M4), HL42XR1(4X M4), HL26K1(4X M4), HL32K1(4X M4), HL32XK1(4X M4), HL32P1(4X M4)

Operation

In the manual, the OSD (on screen display) may be different from your TV's, because it is just an example to help you with the TV operation.

There are several options you might need to set up in order for your TV to work properly. Read the instructions that follow.

Initial Setup: Set according to the screen display.

Switching On/Off the TV set

1. First, connect power cord correctly.

2. Select the viewing source by using **INPUT** button on the remote control.

3. When finished using the TV, press **POWER** button on the remote control. The TV reverts to standby mode.

4. If you intend to be away on vacation, disconnect the power plug from the wall power outlet.

Note

If the TV in power on , the screen show information according the type of input signal . the information will disappear. If there is no signal , "No Signal" will display on the screen.

Choose the Menu Language

When you start using your set for the first time, you must select the language which will be used for displaying menus and indications.

1. Choose **TV** Input and then press **MENU** button.

2. Press ▲ / ▼ button to select Function menu.

3. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Language.

4. Press **◄**/ **▶** button to select language.

(English, Spanish or French)



Choose the Input source

Change the picture source so you can watch your TV, VCR, DVD, Cable, or any other devices that are connected to your TV.

1. Press **INPUT** button to enter the Select Source menu and then use $\blacktriangle / \checkmark$ button to select the desired items

(TV, Video1, Video2, S-Video, Component1, Component2,

PC, HDMI1,HDMI2,HDMI3,HDMI4).

2. Press $\ensuremath{\mathsf{ENTER}}$ button to confirm .



Channel menu

■ This TV set has two methods to set channels, which are respectively Channel Scan, Channel Skip.

■ In this section, how to use the remote control to set channel is explained. You can also use buttons on the TV to set channel.

Note

The Channel menu will be only operated in normal TV mode.

Channel Scan

 Press MENU button and then use ▲ / ▼ button to select Channel menu.

2. Press ► / ENTER button to select Tuner.

- 3. Press **◄**/**▶** button to select **Cable** or **Antenna** mode.
- 4. Press \blacktriangle / \bigtriangledown button to select Channel Scan.
- 5. Press ► / ENTER button to start searching.
- 6. To cancel searching, press **EXIT** button.

Note

When **Antenna** is selected, the TV will detect antenna signals and will search for antenna TV (NTSC and ATSC) channels available in your local area.

When **Cable** is selected, the TV will detect cable company supplied signals and will search for cable TV (NTSC,QAM modulated) channels available in your Area.

Channel Skip

A skip channel is skipped when using \blacktriangle / \triangledown button to browse the channels. A skip channel can be watch

by key-in the channel number or select by list.

Default un-scanned analog channels are skip.

Channel with a check icon \checkmark is a skipped channel.

 Press MENU button and then use ▲ / ▼ button to select Channel menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Channel Skip.

3. Press ▲ / ▼ button to select a channel, then press ENTER button to toggle between ■ and ■ .

Channel Label

Allows you to name the channel that is selected. Press \blacktriangleright /ENTER button to enter the submenu. Then press \blacktriangle / \checkmark to select **Channel Index** and **Channel** Label and \triangleleft / \triangleright to select the position of the item that you want to change, afterward press INPUT to input the numbers and symbols and ENTER button to confirm.





Video Audio Schannel Video Audio Function Channel Channel	Channel Index 1
Channel Label Set	Select EXIT Back

Select the desired program

1. Using CH+/- buttons.

- Press CH+ button to select a channel number in number increasing direction.
- Press CH- button to select a channel number in number decreasing direction.

Note

If skip is ON on one channel, press **CH+/-** button, the channel will not appear.

2. Also can enter channel number directly,eg:2-0.

Select the desired sound

Press **VOL-/+** buttons on the remote or the front of the TV set to adjust the volume level. The range is 0~100. When the volume buttons are pressed the volume level is displayed automatically on the TV screen.

Volume		30

Mute

1. Press **MUTE** button on the remote control and " **a**" icon will display on the screen. At this time, the sound of the TV set is turned off.

2. If you want to recover the sound, press **MUTE** button again or directly press **VOL+** button.



Video menu

The TV menu gives you an overview of the menus you can select. **Note** Depending on the input signal, one or more menu items may not be selectable.

How to select picture mode

The picture mode provides the pre-defined images settings: Standard, Vivid, Custom and Mild .

1. Press **MENU** button and then use ▲ / ▼ button to select **Video** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select **Mode**.

3. Press **◄**/**▶** button to select the option Standard, Vivid, Custom and Mild.

You can also press **PICTURE** button on the remote control to select the option Standard, Vivid, Custom and Mild.



How to customize your own picture status

1. Press **MENU** button and then use ▲ / ▼ button to select **Video** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select the desired items.

3. Press ► / ENTER button and then use ◄ / ► button to adjust the setting.

Mode

Select the mode of picture(Standard/ Vivid/ Custom/ Mild).

Brightness

This will adjust the light output of the complete picture, which will mainly affect the darker areas of the picture.

Contrast

This will adjust the intensity of bright parts in the picture but keep the dark parts unchanged.

Color

This will adjust the saturation level of the colors to suit your personal preference.

Tint

Allows you to select the color mix (Tint) of the picture.

Sharpness

This will adjust the sharpness of fine details in the picture.

Note

Only when the item of mode is custom, the Brightness, Contrast, Color, Tint, Sharpness and Color Temperature can be set by user. In other mode the value of them are preset.

Video menu

Color temperature

This will increase or decrease Warm (red) and Cool (blue) colors to suitpersonal preferences. Select Cool to give the white colors a blue tint, Standard to give the white colors a neutral tint, Warm to give the white colors ared tint.

Advanced Video

To adjust the picture in advanced: DNR, Black Level Extender, White Peak Limiter, CTI, Flech Tone, Adaptive Luma Control.

DNR

To adjust reduce the appearance of digitizing error by the compression: Off, Weak, Medium, Strong, Auto.

Black Level Extender

To adjust the ability in the black areas detail of the picture: On and Off.

White Peak Limiter

To adjust the ability in the white areas detail of the picture: On and Off.

To adjust the picture for color errors: Off, Weak, Medium and Strong.

Flesh Tone

To adjust the flesh color: On and Off.

Adaptive Luma Control

To adjust changes in the luminance of the picture: On and Off.

PC Set

When you select the PC input, this function is used.

Adjustment for screen Position, Clock, Phase, Setting Display adjust menu by pressing INPUT button then use

 \blacktriangle / \blacksquare button to select the the source of PC item.

Auto sync: Automatically adjust display of the picture (Only available in PC source).

Position : Adjust the screen position.

- Phase : Adjust the phase of Pixel clock.
- Clock : Adjust the clock of input signal.

1. Press **MENU** button and then use **A** / **V** button to select Video menu.

2. Press ► / ENTER button and then use ▲ / ▼ button to select PC.

3. Press \blacktriangleright / ENTER button and then use \triangleleft / \triangleright button to adjust the setting.

Video	DNR	Medium	$\triangleleft \triangleright$
	Black Level Extender	On	$\triangleleft \triangleright$
() Audio	White Peak Limiter	On	$\triangleleft \triangleright$
	CTI	Medium	$\triangleleft \triangleright$
Channel	Flesh Tone	On	$\triangleleft \triangleright$
	Adaptive Luma Control	On	$\triangleleft \triangleright$
Function	·		
🚓 Lock			
Advanced Video	•	/ Select EXIT	Back



Clock

59

ENTER Enter A/Select EXIT Back

Function

Lock Ē

PC

Audio menu

How to select audio mode

1. Press **MENU** button and then use ▲ / ▼ button to select **Audio** menu.

2. Press ► / ENTER button and then use ▲ / ▼ button to select Mode.

3. Press ► / ENTER button to select the option Off, Concert, Living Room, Hall, Bathroom, Cave, Arena and Church. You can also press AUDIO button on the remote control to select the Audio Mode Off, Concert, Living Room, Hall, Bathroom, Cave, Arena and Church.

How to Customize your own audio status

1. Press **MENU** button and then use \blacktriangle / \bigtriangledown button to select **Audio** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select desired items.

3. Press ► / ENTER button and then use </ > button to adjust the setting.

Balance

Adjust to emphasize left or right speaker balance.

Bass

Adjust to increase or decrease lower-pitched sounds.

Treble

Adjust to increase or decrease higher-pitched sounds.

SRS TS XT

To turn the simulated surround sound on and off.

Mode

To adjust the audio mode: Off, Concert, Living Room, Hall, Bathroom, Cave, Arena and Church.

Equalizer

To adjust the equalizer: Off, Rock, Pop, Live, Dance, Techno, Classic and Soft.

SPDIF Type

To Adjust the SPDIF output: Off, Dolby Digital and PCM.

AVL(Automatic Volume Control)

This will reduces the differences in volume level among broadcasters.

■ Audio Only Press ► / ENTER button to confirm, the following

display will appear on the screen.

If enter Audio Only mo	ode, press "POWER" to exit!
OK	Cancel

Press ◀ to select OK, then press OK to confirm. The TV screen will be black and no picture, but the sound is still normal. You can press POWER button to reveal the picture on the screen.

SAP Broadcasts Setup

This TV can receive MTS stereo programs and SAP (Secondary Audio Program) that accompanies the stereo program; if the station transmits an additional sound signal as well as the original one.

When having selected SAP button on the remote control, this TV can only receive the signal when the TV station transmits the proper signals.

Mono sound is automatically received if the broadcast is only in Mono; even though Stereo or SAP has been selected. Select Mono if you want to listen to mono sound during stereo/SAP broadcasting. Stereo or SAP can be received in a Analog channel.

1. Use **SAP** button to select your desired MTS mode in a analog signal. Each time you press **SAP** button, Mono, Stereo or SAP appear. If other languages are available on the digital signal, select them with the SAP button.

2. Press EXIT button to save and return to TV viewing.



Function menu

Menu Language

When you start using your set for the first time, you must select the language which will be used for displaying menus and indications.

1. Press **MENU** button and then use \blacktriangle / \checkmark button to select **Function** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Language.

3. Press **◄**/**▶** button to select language.

(English, Spanish or French)

OSD Timeout

1. Press **MENU** button and then use ▲ / ▼ button to select **Function** menu.

2. Press ► / ENTER button and then use ▲ / ▼ button to select OSD Timeout.

3. Press **◄**/**▶** button to select **Short**, **Middle or Long**. (Short is for 5 seconds; Middle is for 10 seconds;

Long is for 15seconds)

OSD Transparency

1. Press **MENU** button and then use \blacktriangle / \checkmark button to select the **Function** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select OSD transparency.

3. Press **√** button to select **Low**, **Middle** or **High**.

Screen Mode

Lets you choose the way an analog picture with a 4:3 aspect ratio is displayed on your TV with a 16:9 ratio picture format. Note

If a fixed image is displayed on the screen for a long time, the image may become permanently burned on the screen and remain visible.

1. Press **MENU** button and then use \blacktriangle / \blacktriangledown button to select **Function** menu.

2. Press ► / ENTER button and then use ▲ / ▼ button to select Screen Mode.

3. Press **◄**/**▶** button to select **Normal**, **Zoom**, **Wide** or **Cinema**.

Normal

Choose normal when you want to view the picture with 4:3 mode.

Zoom

Choose Zoom when you want to view the picture without any alteration. However, the top and bottom portions of the picture will be cropped.



Video	Language	English	$\triangleleft \triangleright$
	OSD Timeout	Short	$\triangleleft \triangleright$
(3) Audio	OSD Transparency	Middle	$\triangleleft \triangleright$
Channel	Screen Mode	Normal	$\triangleleft \triangleright$
	Blue Screen	On	$\triangleleft \triangleright$
⊳ 🗊 Function	DPMS	On	$\triangleleft \triangleright$
	Time Setup		
E Lock	Closed Caption		
	Default		
Function	•	I▶/\$ Select EXIT	Back

Function menu

Wide

Choose wide when you want to adjust the picture horizontally, in a linear proportion to fill the entire screen.

For letterbox pictures, bars may appear on the top and bottom on some programs.

You can also press **ARC** button on the remote control to select the desired picture format: **Normal**, **Zoom**, **Wide** or **Cinema**.

Blue Screen

1. Press **MENU** button and then use ▲ / ▼ button to select **Function** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Blue Screen.

3. Press **◄**/ **▶** button to select **On** or **Off.**

DPMS

PC Power Management. To set On, the set will be in standby mode automatically if no signal in 2 minutes; if signal input, the set will be on again automatically. Note: DPMS is useful only in VGA source.

Time zone setting

This function allows you to select your local time zone. Broadcasted time information will correct the clock display for your local time.

1. Press **MENU** button and then use $\blacktriangle / \checkmark$ button to

select Function menu.

2. Press ► / ENTER button and then use ▲ / ▼ button to select Time Setup.

3. Press \blacktriangleright / ENTER button and then use \blacktriangle / \blacktriangledown button to select Time Zone.

4. Press ◀/ ► button to select your viewing area time zone: Eastern, Central, Mountain, Pacific, Alaska or Hawaii.

Date /Time setting

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV.

1. Press **MENU** button and then use \blacktriangle / \checkmark button to select **Function** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Time Setup.

3. Press \blacktriangleright or ENTER button and then use \blacktriangle / \blacktriangledown button to select **Date/Time**.

4. Press ► / ENTER button and then use ◄ / ► button to select **On** or **Off**.

Video	Time Zone	Pacific	$\triangleleft \triangleright$
	Date/Time		
() Audio	Sleep Timer	Off	$\triangleleft \triangleright$
Channel			
Time Setup	-	▲►/♦ Select	EXIT Back



Function menu

Sleep Timer setting

The sleep timerautomatically shuts off the TV after a preset time (from 5 to 240 minutes).

1. Press **MENU** button and then use $\blacktriangle / \checkmark$ button to select **Function** menu.

2.Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Time Setup

3. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Sleep Timer.

4. Press ◀/ ► button to select the number of minutes. Select Off,5Min,10Min, 15Min, 30Min,45Min,60Min, 90Min, 120Min, 180Min or 240Min.

The time begins to count down from the number of minutes selected.

5. To cancel the set sleep timer: Press ► button to select **Off**.

You can also press $\ensuremath{\textbf{SLEEP}}$ button to select quickly the sleep timer.

DTV Caption Style (In DTV mode)

This allows you to modify how digital captions are displayed on your TV. Select from the following options to change the visual characteristics of your TV's digital captioning.

Customize the DTV/CADTV captions that appearon your screen.

1. Press **MENU** button and then use \blacktriangle / \blacktriangledown button to select **Function** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Closed Caption.

3. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select DTV Caption Style.

4. Press ►/ ENTER button and then use ▲ / ▼ button to select the Style, Size, etc., press ◄/► button to customize to your preference.

Style

Select this option to select the font style of caption display according to your own preference.

Press ◀/ ► button to select **Default** or **Custom**. ■ **Size**

Select this option to select the size of caption display according to your own preference.

Press ◀/ ► button to select Small, Normal or Large. ■ Text color

Select this option to select the text color or the opacity of the text box of caption display according to your own preference.

Select a color and one of the opacity options.

Text Opacity
Specify the opacity for the text color.
BG Color
Select a background color.
BG Opacity
Select the opacity for the background color.
Window Color
Select a window color.
Window Opacity
Select the opacity for the window color.



Video	Language	English	$\triangleleft \triangleright$
	OSD Timeout	Short	$\triangleleft \triangleright$
🔊 Audio	OSD Transparency	Middle	$\triangleleft \triangleright$
Channel	Screen Mode	Normal	$\triangleleft \triangleright$
	Blue Screen	On	$\triangleleft \triangleright$
⊳ 🗊 Function	DPMS	On	$\triangleleft \triangleright$
	Time Setup		
街 Lock	Closed Caption		
	Default		
Function ENTER Enter Select EXIT Back		Back	



Video	Style	Custom	$\triangleleft \triangleright$
	Size	Normal	$\triangleleft \triangleright$
(3) Audio	Text Color	Black	$\triangleleft \triangleright$
Channel	Text Opacity	Solid	$\triangleleft \triangleright$
	BG Color	Black	$\triangleleft \triangleright$
⊳ 🗊 Function	BG Opacity	Solid	$\triangleleft \triangleright$
	Window Color	White	$\triangleleft \triangleright$
E Lock	Window Opacity	Solid	$\triangleleft \triangleright$
DTV Caption Style		▲►/◆ Select EX	IT Back

Lock Menu

Parental Control can be used to block specific channels, ratings and other viewing sources.

The parental control function is used to block program viewing based on the ratings sent by the broadcasting station. The default setting is to allow all programs to be viewed. Viewing can be blocked by choosing the type of the program and the categories.

Parental Control rating and categories

Rating guidelines are provided by broadcasting stations. Most television programs and television movies can be blocked by TV Rating or Individual Categories. Movies that have been shown at the theaters or direct-to-video movies use the Movie Rating System (MPAA) only.

Ratings for Television programs :

Parental Gu	ide	
TV-Y	(All c	hildren)
TV-Y7	(Chil	dren 7 years older)
TV-G	(Ger	eral audience)
TV-PG	(Pare	ental guidance suggested)
■ TV-14	(Pare	ents strongly cautioned)
TV-MA	(Mat	ure audience only)
Ratings for Mo	ovies previously show	n in theaters:
MPAA Ratin	g :	
G	(Ge	neral audience)
PG	(Par	ental guidance suggested)
PG-13	(Par	ents strongly cautioned)
R	(Res	stricted)
NC-17	(No d	one 17 and under admitted)
X	(Adu	ılt only)
If you set PG	-13 : G and PG movies	will be available, PG-13, R, NC-17 and X will be blocked.
CA Eng Rating	1	
C	Children	
C8+	Children eight years	and older
G	General Programmin	g, suitable for all audiences
■ PG	Parental Guidance	
14+	Viewers 14 years and	d older
18+	Adult Programming	
CA Fren Ratin	g	
G	General	
8 ans+	Not recommended	for young children
13 ans+	Programming may	not be suitable for children under the age of 13
16 ans+	Programming is no	t suitable for children under the age of 16
18 ans+	Programmingrestr	icted to adults
TV Rating :		
A(Age)		(applies to TV-Y, TV-Y7,TV-G,TV-PG,TV-14, TV-MA)
🔳 D (Dialog	ue - sexual dialogue)	(applies to TV-PG, TV-14)
🔳 L (Langua	age-adultlanguage)	(applies to TV-PG, TV-14, TV-MA)
S (Sex - s	exual situations)	(applies to TV-PG, TV-14, TV-MA)

- V (Violence) (applies to TV-PG, TV-14, TV-MA)
- FV (Fantasy Violence) (applies to TV-Y7)

Lock Menu

Lock setup

Set up blocking schemes to block specific channels, ratings, and external viewing sources.

A password is required to gain access to this menu.

1. Press **MENU** button and then use ▲ / ▼ button to select **Lock** menu. Then, press ▶ button.

The TV is set up with the initial password "0-0-0-0" and security default password is 9-4-4-3.

2. Use ▲ / ▼ button to select the desired items, and press ▶ or ENTER button to enter the next menu. Once the option is selected, change the settings to your preference.

Password

Change the password by inputting a new password twice.

Channel Block

1. Press **MENU** button and then use ▲ / ▼ button to select **Lock** menu.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select Channel Block.

3. Press \blacktriangle / \checkmark button to select the item, Press **OK** button to set.

Parental Lock

1. Press ▲ / ▼ button to select Parental Lock item.

2. Press **◄**/ **▶** button to select **On** or **Off**.

Note

If the ParentalLock is setting as Off, the change of the Parental Guide, MPAARating, CAEng Rating and CA Fren Rating will be no useful.

Parental Guide

Note

The Parental control will automatically block certain categories that are "more restrictive". For example, if you block "TV-Y" category, then all the categories in the "young adult" group will be blocked (TV-Y, TV-Y7, TV-G, TV-PG, TV-14 and TV-MA).

The sub-ratings (D, L, S, V, FV) work together similarly.

How to set the D, L, S, V and FV sub-ratings.

First, press ▲ / ▼ button select one of these Ratings: TV-Y, TV-Y7, TV-G, TV-PG,TV-14, or TV-MA, and press </ >





Video Video Audio Channel Function Lock	Parental LockOnParental GuideMPAA RatingCA Eng RatingCA Fren RatingDigital RatingBlock UnratedOn	
Program Block	ENTER Enter	elect EXIT Back

Lock Menu

Lock setup

A symbol " \Box " will be displayed for each sub-rating. While " \Box " is selected, press **ENTER** button to go to a sub rating. To select a different Rating, press $\blacktriangle / \checkmark$ buttons and then repeat the process.

Note

The V-chip will automatically block certain categories that are "More restrictive".For example, if you block "a" sub-rating in TV-PG, then the "a" sub-ratings in TV-14 and TV-MA will automatically be blocked.

MPAA Rating

Blocks movies according to the movie ratings limits specified, so children cannot view certain movies. You can set the ratings limit by blocking out all the movies with the ratings above a specified level. Keep in mind that the movie ratings limit only applies to movies shown on TV, not TV programs, such as soap operas.

1. Press ▲ / ▼ button to select MPAA Rating item.

2. Press \blacktriangleright / ENTER button and then use \blacktriangle / \checkmark button to select the rating.

3. Press ENTER button to set block or unblock.

CA Eng Rating

Canadian English Language Rating

Press ▲ / ▼ button to select CA Eng Rating item.
 Press ► / ENTER button and then use ▲ / ▼ button to select the rating.

3. Press **ENTER** button to confirm.

CA Fren Rating

Canadian French Language Rating

Press ▲ / ▼ button to select CA Fren Rating item.
 Press ► / ENTER button and then use ▲ / ▼ button to select the rating.

3. Press ENTER button to confirm.







Video	G □
S Audio	8 ans+ □
Channel	13 ans+ □
Function	16 ans+ ₪
Channel	18 ans+ ₪
CA Fren Rating	ENTER Set A. Select EXIT Back

Other Functions

Brief Info

Brief Info shows the present screen information. Press **DISPLAY** button to show the Brief Info on the screen. Press **DISPLAY** button or **EXIT** button to exit.

Function:

- Show the present screen information.
- Press **DISPLAY** button or **EXIT** button to exit. D С
- A: Video resolution
- B: Program name
- C: Program rating categories
- D: program show time
- E: Program title
- F: Channel Lable
- G:Tuner mode
- H:Program details



Using the Guide

The guide allows you to select the channels from a channel list.

The guide allows provides information about the current program being shown on each channel (if information is available from the station).

Note

Program information in the guide is provided by the broadcasters. As a result, it may sometimes include only the channel number, without a program title or description.

- A: Program title
- B: program options
- C: program show time
- D: Program details
- E: Program rating categories



Other Functions

Quick program view

Press to jump back and forth between two channels. The TV alternates between the current channel and the last channel that was selected.

1. Suppose the channel number you used just now is 8 and the channel number you are using is 18 (as shown in the figure).

2. If you want to return to the last watched program channel 8, you can simply press **RECALL** button.

3. If you want to return to channel 18, press the button again.

CC (Closed Caption Display)

Closed Captions

Closed captioning is a process which converts the audio portion of a television program into written words which then appear as subtitles on the television screen. Closed captions allow viewers to read the dialogue and narration of television programs.

Using Closed Captions

Captions are the subtitles of the dialogue and narration of television programs. For prerecorded programs, program dialogue can be arranged into captions in advance. Its possible to caption a live program by using a process called real-time captioning, which creates captions instantly. Real-time captioning is normally done by professional reporters using a machine shorthand system and computer for translation into English. Captioning is an effective system for the hearing-impaired, and it can also aid in teaching language skills.

In ATV mode CCD function allows you to configure the way you choose to view the digital captioning (Off, CC1, CC2, CC3, CC4, Text1, Text2, Text3 or Text4).

■ CAPTION

The term for the words that scroll across the bottom of the TV screen; usually the audio portion of the program provided for the hearing impaired.

TEXT

The term for the words that appear in a large black frame and almost cover the entire screen; usually messages provided by the broadcaster.

In DTV mode allows you to configure the way you choose to view the digital captioning(Off,service1,service2, service3,service4, service5 or service6). Select one of the digital service channels made available

Select one of the digital service channels made available by the caption provider.

There are 6 standard services. Service 1 is designated as the Primary Caption Service. This service contains the verbatim, or near-verbatim captions for the primary language being spoken in the accompanying program audio. Service 2 is designated as the Secondary Language Service. This service contains captions in a secondary language which are translations of the captions in the primary Caption Service. The other service subchannels are not pre-assigned. It is up to the discretion of the individual caption provider to utilize the remaining service channels.



Note

The captions do not always use correct spelling and grammar. Not all TV programs and product commercials are made for broadcast with Closed Caption information included. Refer to your area's TV program listings for the TV channels and times of Closed Caption shows. The captioned programs are usually noted in the TV listings with service marks such as "CC".

JURASSIC PA 8:00 PM - 8:45 P	RK M	Stereo	33 WGBH12
MPAA-R	🚥 CC1	480i SD	Antenna
(No program deta	ils.)		

USB Input

1. Supporting media and file format: Digital pictures (.JPG) and digital music (.MP3) files

Due to differences in the file code and file mode, It is possible that some files cannot be read.

2.Before starting operation, verify USB storage device is of FAT32 and FAT file system format. At present, this television does not support NTFS and the file systems of other format.

3.External card reader supports most digital cards available in the market. Readable digital cards are classified according to the property of card readers and can be connected to mobile hard disks (working voltage 5.0V, working current not over 500mA).

4. The television operation may be halted due to excessive rate of information code errors. In such case, restart the system. Please note - there are many nonstandard USB mobile devices in the market. If a nonstandard device is used then an identification problem may occur.

To play picture

1.Press USB button on the remote to enter stream media system.

The system start up takes about 3 second. Then insert the USB drive in the USB input.



2.Press ◀/ ► button to select Picture option. Press ENTER to enter.



3.Press ▲ / ▼/◀ / ► button to select desired picture, and then press ENTER button to enter the play interface.



4 5 6 7

1.Play mode: None/Dissolve/Wiperight/Wipe left/Wipe up/Wipedown/Box in/Box out 2.Play time: Short/Medium/Long;3.Filename 4.Pause/Play 5. Duration/Rotate 6.Effect7.Infomation 4.Press the button on the remote control to select the item, press ENTER button to confirm.



5.Press EXIT button to return to the previous menu. Press USB button to exit the USB mode. Note: you may play the pictures among selected.

To play music

1.Press◀/ ▶button to select Music option. Press ENTER to enter.



2.Press ▲ / ▼/◄ / ▶ button to select desired music, and then press ENTER button to enter the play interface.



3.Press the button on the remote control to select the adjusted item, press ENTER button to confirm.



4.Press EXIT button to return to the previous menu. Press USB button to exit the USB mode.

Note: You may play the music among selected.

USB Input

To play pictures and music together

Insert USB drive with music and picture files into the USB input, select the Music folder and choose the MP3 files to be played. Then select the pictures to be played. Please note as some files must be read while music is being played, the speed of picture operation response might be affected.

- 1.Press **◄/** button to select Music folder.
 - Press ENTER to enter.



2.Press ▲ / ▼/◀ / ► button to select the desired music, and then press ENTER button to enterto play.



3.Press EXIT button to turn to the main menu. And then press ◀/▶ button to select Picture option. Press ENTER to enter.



4.Press ▲ / ▼/◀/ ► button to select desired picture, and then press ENTER button to enter the play interface.



- 5.Press USB button to exit USB mode.
- Note: Do not remove USB device from the TV until you have exited the USB mode otherwise you may damage the USB device.

Setting Up Your Remote Control

After it has been set up properly, your remote control can operate in six different modes: TV, DVD, VCR, SETBOX, CABLE or AUDIO.

Note

The remote control might not be compatible with all DVD Players, VCRs and Cable boxes.

Control Operation

- 1. Program the Controller to work with your device.
- 2.Changing device mode by pressing the TV、DVD、 STB、CABLE、VCR、AUD key. When device is set, related device LED will be on for 1 second and then be off.
- 3. Aim the remote at the device.
- 4. Use the other Controller buttons to operate the device. Device LED will blink if user presses any key (if the key has data in current mode.). If the key has no data, then LED will not blink.
- 5. Default init status: TV/Legend codeset.

Manually Programming the Control

Check the code no. from the code list.

- 1. Choose the device you wantto program.
- 2. While Press and holding ENTER key, press INPUT key, and device LED will be ON. Keep the status for about 3 seconds and the LED will blink, indicating that the Controller is ready for programming, then release both keys.
- 3.Led will blink once when you enter a digit key, indicating the digit key is programmed. If 3 digits are programmed successfully, device LED will be ON for about 3 seconds and then blink twice per second. Then User now can:

a)Try to operate the device by using power key.

- B)If operation can be done, press ENTER key to save current 3-digits code brand to EEPROM and exiting manually programming mode.
- C)Return to beginning of step 3. Reprogram the control.
- 4. If user's input is incorrect, LED will blink 6 times in 3 seconds (2HZ). And then keep 2HZ blink, user now can return to step 3 and re-program the device. Within 30 seconds, user should enter the 3-digit brand code corresponding to your device. If time out or any key other than Power and digits is pressed, LED will be off and manually programming process is exit.

Manually scan mode

With manually scan programming, the Controller tests all the codes available in the codeset database and assign the correct one for the selected device. Although this method is more time consuming, it saves you the trouble of looking up the brand codes necessary for manual programming.

To manually-scan program the Controller:

- 1. Manually turn OFF the device for manually scan mode. (TV, VCR, DVD, STB, cable box or audio equipment).
- 2. Choose the device you want to program.
- 3.While Press and holding ENTER key, press INPUT key, and device LED will be ON. Keep the status for about 3 seconds and the LED will blink, indicating that the Control is ready for programming, then release both keys.
- 4.Press and release the CH+/CH- key. it will emit the next or the previous POWER key code. The LED blinks with 10HZ freq, indicating that the Remote is in manually scan mode.
- 5.Press CH+/CH- key repeatedly until the device switches ON(CH+ key conducts a upward search while the CH- key conducts a downward search in the code set database). When the device turns ON, press and release the ENTER key to program the Controller with the new code, saving the code to EEPROM and exit.
- 6. After saving the new code, press POWER key. If the device responds, no further programming is required. If the device does not respond, repeat step 3 through 5. And searching will start from current code set.

To exit without programming, press any key or no key was pressed in 30 second, manually scan mode will be automatically exit. The code can not be saved to EEPROM.

After searching the entire data base, this mode will be automatically exited and led will blink for 3 times in 1.5 seconds. The code can not be saved to EEPROM. **Automatic Scan Programming the Controller**

To automatic scan program the Controller:

- 1. Manually turn OFF the device you wish to power scan.
- (TV, VCR, DVD, STB, cable box or audio equipment).
- 2. choose the device you wish to program.
- 3. While Press and holding ENTER key, press the INPUT key and device LED will be ON. Keep the status for about 3 seconds and the LED will blink, indicating that the Controller is ready for programming, then release both keys.
- 4. Press and release the Mute key to enter automatic scan mode. And the remote will automatically sending codes to the device per 2 seconds.
- 5.When the device turns ON, press ENTER key to program the Controller with the new code, saving it to EEPROM and exit.
- 6.Press POWER key, If the device responds, no further programming is required. If the device does not respond repeat steps 1 through 5.
- 7.After searching the entire data base, this mode will be automatically exited and led will blink for 3 times. The codeset is notsaved to EEPROM.

In automatic scan mode, press any key other than ENTER key will exit without programming,.

Display mode

- 1. choose the device you wish to program.
- 2.To enter display mode, while press and holding ENTER key, press the INPUT key and device LED will be ON, keep the status for about 3 seconds and the LED will blink, indicating that the Controller is ready for programming, then release both keys.
- 3. Sequence press 9, 8, 0 to enter display mode.
- 4.Press digit 1 key to get the first digit of current codeset. For example, if the first digit of codeset is 1, so then led will blink once and remains OFF. Digit "0" in codeset will not be displayed. Blink Freq is 1HZ.
- 5.Press digit 2 key to get the second digit of current codeset. For example, if the second digit of codeset is 3, so then led will blink three times and remains OFF. Blink Freq is 1 HZ.
- 6.Press digit 3 key to get the third digit of current codeset. Blink Freq is 1 HZ.
- 7. Only digit 1, 2, 3 are valid in this mode. And the sequence is not fixed.

Controller will not send out data in this mode if user presses any keys other than digit 1, 2, 3, or no key was pressed in 30 seconds, display mode is ended.

Punch-Through Features

The Controller provides two punch-through features that allow users to control TV volume and DVD or VCR operation while the Controller is in another device mode control certain features of another device.

Volume Punch-Through

The TV Volume/Mute punch-through feature allows you to control the volume and mute function of your TV while the Controller is in another device mode. The feature is applicable for all devices and brands that do not use the volume control buttons for other purposes.

Transport Key Punch-Through

The DVD or VCR transport key punch through feature lets you control the PLAY, STOP, PAUSE, REWIND, FF and RECORD functions of your DVD or VCR while the Control operates in other modes. The feature is applicable for all devices and brands that do not use the transport keys for other purposes.

Fast Programming defaultTV codeset

Press and holding the ENTER key and then press POWER key for 3 seconds, the LED will blink 3 times and turn off, default Legend codeset (001) will be programmed to the control.

Remote Control Codes

тv_

NC	D. Brand	Code
1	Legend	001
2	Abex	077
3	Acer	267
4	Addison	333
5	Admiral	057 078 334 338
6	Advent	324
7	Adventura	079
8	Aiko	066 333
9	Aiwa	165
10	Akai	038 058 258 271 279 331 350
11	Albatron	321 325
12	Alleron	068
13	America Action	335
14	Ampro	323
10	Amtron	007
17	Anam National	050.067
18		059 007
19	Anex	092 135 151 195 339
20	Archos	308
21	Astar	259
22	Audiovox	067 189 191 207 256 333 335 337
23	Aventura	053
24	Axion	280
25	Bang & Olufsen	345 346
26	Baur	058
27	Belcor	060 349
28	Bell & Howell	057
29	Benq	245 246 284 329
30	Bradford	067 335
31	Brillian	342
32	Brockwood	060 349
33	Broksonic	197 335 338
34	byd:sign	310
35	Candle	060 062 063 079 331 350
36	Carnivale	331 350
37	Carver	055 320
38	CCE	239 351
39	Celebrity	058
40	Celera	339
41	Centurion	220
42	Ching Toi	228
43	Ching Tai	333
44	Chung Hein	335 364
46	Citizen	060 062 063 066 067 074 076 331 333 350 352 354 380
47	Clarion	335
48	Cohy	210
49	Colortyme	060.062
50	Colt	377
51	Commercial Soluti	ons332
52	Concerto	060 062
53	Contec	335
54	Contec/Cony	065 067
55	Craig	067 335
56	Crosley	055 293 320
57	Crown	067 071 335 352
58	CTX	235
59	Curtis Mathes	038 055 056 060 062 074 076 088 320 331 332 334 337 340 350 352 354
60	CXC	067 335
61	Cytron	238 278
62	Daewoo	060 061 062 066 076 093 117 125 152 333 337 349 352 380
63	Daytron	060 062 076 349
04	Dell	251 285 304
65	Denon Diamanal (ining	340
67	Dimensio	056 099
69	Dimensia	122
60	Dumont	021.060.220.240
70	Durabrand	051 000 330 349
71	Dwin	322 334
72	Electroband	058
73	Electrograph	243
74	Electrohome	058 059 060 062
75	Element	228
76	Emerson	053 060 062 065 067 068 076 093 137 266 292 335 338 349 352 380
77	Emprex	314
78	Envision	060 062 222 331 350

NO	Brand	Cada
70		Code
- 79	Epson	225
81	Elles	053
82	Ether	362
83	Firstar	372
84	Fujitsu	068 216
85	Funai	053 067 068 335
86	Furi	368
87	Futuretech	067 335
88	Gateway	
90	GFM	051 305
91	Gibralter	031 060 330 331 349 350
92	Go Video	328
93	Goldstar	060 061 062 065 076 077 331 349 350 379
94	Gradiente	242
95	Grundig	351
96	Grunpy	001 002 003 004 005 006 007 008 000 010 240 241 207 207 255
98	Hankook	335 362 371
- 99	Harman/Kardon	055
100	Harvard	067 335
101	Havermy	334
102	Hello Kitty	337
103	Hewlett Packard	175 204 219
104	Hisense	250 370 375
105	HP	204 219
107	Hyundai	327
108	Hallmark	060 062
109	IMA	067
110	Infinity	055 071 320
111	InFocus	275
112	Initial	277
113	Innova	351
115	Integ	330
116	llo	174 254 266 312
117	Janeil	079
118	JBL	055 071 320
119	JC Penney	056 060 061 062 063 069 070 074 076 077 088
120	JCB	058
121	Jean	333 303 370 372
122	Jinxing	365 368 370
124	JVC	047 048 049 065 070 114 154 172 199 201
125	Kawasho	058 060 062
126	Kaypani	353
127	KEC	335
128	Kenwood	060 062 331 349 350
129	KI H	330
131	Kloss Novabeam	067.079
132	Kolin	335 369
133	KTV	067 076 331 335 350 352
134	LG	030 060 061 182 224 257 302 321 350
135	Loewe	071
130	LOGIK	05/
138		055 056 062 071 088 151 320 332
139	M&S	055
140	Magnasonic	380
	Magnavox	052 055 060 062 063 071 090 105 108 110 163 174 176 218 320
141		331 350
142	Magnin	378
143	Majestic	057
144	Matsushita	<u>000 000 002 0/1 231 272 320 331 350 351</u> 336
146	Maxent	243 252 301
147	Mediator	374
148	Megapower	321
149	Megatron	062 340
150	Memorex	057 061 062 137 181 338 376 379
151	MGA	060 061 062 331 349 350 378
152	Mintek	031 070 076 077 330 332 352
154	Minutz	069
155	Mitsubishi	060 061 062 119 159 170 334 349

Remote Control Codes

NO.	Brand	Code
156	Monivision	321 325
157	Montgomery Ward	057
150	Matazala	057
156	Motorola	059 078 334
159	MTC	060 061 062 074 331 349 350 354
160	Multitech	067 335
161	Multivision	072
162	NAD	062 151 351
163	NEC	059 060 061 062 234 268 331 349 350
164	Notest	251
165		331
105	NET-TV	243 247
166	Newave	333 367 371
167	Nikko	062 066 331 333 350
168	Norcent	222
169	Noshi	348
170	NTC	066 333
171	Olovia	129 102 221 257 259
172	Orevia	007 005
172	Onwa	067 335
173	Орро	282
174	Optimus	336 376
175	Optoma	276
176	Optonica	073 078 334
177	Orion	097 338
178	Otto Versand	059
	Dessessie	000 0000
170	Panasonic	021 022 023 024 025 026 059 070 071 086 103 122 144 147 155 168 183
1/9		185 336 376
180	Penney	151 331 332 348 349 350 352 354 378 379
181	Philco	055 059 060 061 062 063 065 071 181 320 331 349 350
	Philips	040 041 042 043 044 045 046 055 059 060 063 065 071 089 090 091 096
182		160 162 164 169 174 177 179 190 208 291 320 347 351
183	Philips Magnavoy	042 045 080 000 006
100	Dhanala	042 043 005 050 050
405	Phonoia	347
185	Pilot	060 076 331 349 350 352
186	Pioneer	060 062 156 157 205 212
187	Plasmsync	269
188	Polaroid	211 217 220 228 315 339
189	Portland	060 061 062 066 076 333 349 352
190	Price Club	074
101	Drime	014
191	Prima	281 324
192	Princeton	321
193	Prism	070
194	Proscan	027 056 088 332
195	Proton	060 062 065 353
196	Protron	196 262
197	Proview	262.242
100	Dulger	203 545
190	Pulsar	031 060 330 349
199	Руе	347
200	Quasar	022 059 070 336 376
201	Quelle	058
202	Radio Shack/Realisti	c056 060 062 065 067 073 076 077
203	Radiola	347
204	Radio Shack	088 331 332 335 349 350 352
205	RCA	027 029 020 056 050 060 061 062 092 099 005 009 222 249 240 254 279
206	Poplictic	
200	Duran	000 001 000 001 000
201	Runco	031 330 331 350
208	Sampo	060 062 076 077 243 283 331 350 352 353
	Samsung	037 038 039 060 061 062 065 074 076 077 129 130 140 143 158 166
209		<u>178 193 194 209 213 229 232 286 294 295 331 349 350 351 354</u>
210	Samsux	352
211	Sansui	007 338
212	Sanvo	060 240 270 278
212	CDD	000 273 210 310
213	SBR	347
214	Sceptre	264
215	Scimitsu	349
216	Scotch	062
217	Scott	060 062 065 067 068 255 335 349
218	Sears	053 055 056 060 062 068 080 088 151 244 320 332 379
219	SEL	058
_ 10	Sharp	
220	onaip	<u>033 034 035 030 000 002 005 073 076 078 083 112 131 139 142 145 1</u> 67
220	a	171 180 198 202 203 334 352
221	Shen Ying	333
222	Sheng Chia	334 367
223	Shogun	060 349
224	Signature	057
225	Simpson	063
226	Sinudyne	058

NO.	Brand	Code
227	SKY	351
228	Skygiant	335
229	Sony	011 012 013 014 015 016 058 087 094 101 102 118 124 128 136
		148 153 184 206 226 287 288
230	Soundesign	060 062 063 067 068 335
231	Sowa	366 370
232	Squareview	053 080
233	SSS	060 067 335 349
234	Starlite	067 335
235	Studio Experience	325
236	Superscan	052 260 334 356
237	Supre-Macy	0/9
238	Supreme	058
239	SVA	230 355
240	Sylvania	046 050 051 052 053 054 055 060 062 063 071 137 141 161 289
		320 331 350
241	Symphonic	053 067 080 141 335
242	Synco	333 337 361 366 367 371
243	Syntax	138 192 344 357 358
244	Syntax-Brillian	192 244
245	Tacico	333 37 1
240	Tandy	070 334
247	Tatung	059 255 275 541 500 505 500 570
240	Technics	226
249	Techview	060.062.070
250		363 367 371
251	Teco	055 057 060 061 062 063 065 066 067 068 074 076 320 333 335
252	Teniina	349 352 354
253	Telecantion	075
254	Telefunken	038
255	Thomson	088
256	ТМК	060.062
257	TNCi	330
201	Toshiba	017 018 019 020 074 075 099 100 104 106 109 111 113 115 120
258		123 146 151 173 227 354
259	Totevision	076 352
260	Trutech	248
261	Tuntex	333 362
262	TVS	338
263	Universal	069
264	Vector Research	331 350
265	Victor	065
266	Vidikron	055 320
267	Vidtech	060 061 062 349
268	Viewsonic	133 214 218 223 233 243 316 356
269	Viking	079
270	Viore	254
271	Visco	309
272	Vizio	133 257 261 296 318 341 356 359 360
273	Wards	055 056 057 060 061 062 068 069 071 073 088 320 331 349 350
274	Waycon	151
275	Westinghouse	133 187 188 195 215 290 303 337
276	White Westinghous	e 093 338
277	Yamaha	060 061 062 331 349 350
278	Yapshe	373
279	∠enith	030 031 032 057 060 081 084 093 121 330 333 338

Remote Control Codes

DVD

NO.	Brand	Code
1	Accele Vision	250
2	Accurian	355
3	Advent	330
	Alwa	307
6	Alco	328
7	Allegro	349
8	Alpine	257
9	Amphion MediaWorks	258
11	Anex	238
12	Apple	319
13	Arrgo	351
14	Aspire	332
15	Astar	252
17	Axion	281
18	Bang & Olufsen	344
19	Blaupunkt	249 343
20	Blue Parade	340
22	BOSS	251
23	Boston Acoustics	381
24	Broksonic	123 323
25	California Audio Labs	325
27	Changhong	326 375
28	CineVision	196 349 350
29	Clarion	262
30	Classic	236
31	Curtis	<u>082 129 143 237 331</u>
33	Curtis Mathes	352
34	CyberHome	029 048 351 368 373 374 377
35	Cytron	279
36	Daewoo	113 349 361
38	Denon	_070 182 198 209 299 300 325
39	DiamondVision	320 321 322
40	Disney	100 132
41	Dual	312
42	Durabrand DVD2000	353
44	Eclipse	227
45	Emerson	063 248 324 345 385
46	Enterprise	345
47	Fisher	205 346
49	Funai	354 385
50	Gateway	376 378 384
51	GE	101 195 338 343
53	Go Video	_204
54	Goldstar	120
55	GPX	194
56	Gradiente	270 325
58	Grundia	330
59	Haier	334
60	Harman/Kardon	224 347
61	Hitachi	014 136 203 244
63	iLive	293
64	llo	213
65	iLuv	314
66	Initial	278 343
<u>- 07</u> 68	Integra	<u>274 289 298 303 354</u> 326 340
69	Irradio	174
70	iSymphony	294
71	Jamo	308
73	JBL	<u>162 347</u>
74	JVC	030 031 032 033 034 035 036 037 038 086 087 095 103 122 141
		142 161 173 214 218 243 306 341
75	Jwin	309
76	Kenwood	328
78	KLH	 115 272 328 343
79	Konka	359 360
80	Koss	153 286 327 334
81	Landel	363
<u></u> 02	2000110	200 040

NO.	Brand	Code	
83	Lenoxx	333 353	
84	Lexicon	357	
85	LG	102 151 165 185 189 201 211 242 256 283 345 349	
87	Liteon	158 219 355 384	
88	Loewe	356 365	
89	Magnavox	068 071 124 156 179 213 298 324 336 339 354	
90	Marantz	245 301 302 339	
91	Memorex	100 133 323	
93	Mintek	213 278 343	
94	Mitsubishi	106 177 190 337	
95	NAD	264	
96	Nakamichi	310	
97	Nesa Next Base	363	
99	Nexxtech	271	
100	Norcent	129 246	
101	Onkyo	145 188 197 206 207 326 336	
102	Oritron	327 334	
104	Panasonic	017 018 019 020 021 022 023 024 051 059 067 070 072 073 077	
		080 083 091 099 135 138 160 181 183 184 199 205 233 234 235	
405	5 1 U	325 336 387 388	
105	Philips	328 007 041 042 071 098 137 144 152 157 168 174 176 178 209 212	
	1 1111po	336 339 357 385	
107	Pioneer	043 044 045 046 047 058 110 150 200 229 247 340 390	
108	Polaroid	028 241 277	
109	Polk Audio	339	
110	Presidian	385	
112	Prima	282 383	
113	Princeton	358	
114	Proceed	342	
115	Proscan	069 338	
117	Owestar	327	
118	RCA	039 040 069 090 166 191 328 338 340 343	
119	Regent	333	
120	Rio	349	
121	Rotel	341	
123	Sampo	119 265 370 372	
124	Samsung	012 013 014 015 016 054 064 066 074 075 085 104 105 108 111	
405	<u> </u>	121 125 134 154 193 210 226 325 389	
125	Sansu	228 275 323	
120	Sensory Science	384	
128	Sharp	093 119 187 202 220 291 295 296 297	
129	Sharper Image	368	
130	Sherwood	292 361	
132	Shinsonic	213 335	
133	Sigma Designs	358	
134	Sonic Blue	349	
135	Sony	000 001 002 003 004 005 006 049 052 055 056 057 060 061 065	
		<u>230 231 232 316 317 318 335</u>	
136	Sungale	267	
137	Superscan	124 324	
138	SVA	364	
139	Symphonic	<u>042 003 124 133 159 204 225 285 324 354 385 386</u> 133 159 385	
141	Teac	266 328 371 379 380	
142	Technics	325	
143	Techwood	261	
144	Theta Digital	300	
146	Toshiba	007 008 009 010 011 050 053 084 088 089 096 107 130 131 140	
		163 169 170 171 175 186 212 215 216 217 221 238 239 240 254	
		255 323 336	
147	Trutoch	362	
140	Tview	313	
150	Urban Concepts	336	
151	US Logic	213	
152	Venturer	288 328	
153	Vizio	<u>307 309</u> 315	
155	Westinghouse	222	
156	Xbox	338	
157	Yamaha	180 253 325 339	
158	∠enith	102 116 120 139 149 336 345 349	

Remote Control Codes

VCR

NO.	Brand	Code
1	ABS	111
2	Adventura	008 032
3	Aiwa	008 032 095 112
4	Akai	019
6	American High	031
7	Apex	115
8	Asha	012 029
9	Audio Dynamics	016
10	Bang & Olufsen	030 082 112
12	Beaumark	012 029
13	Bell & Howell	028
14	Broksonic	074 099 114
15	Calix	030 112
17	Canon	029 030
18	CineVision	094
19	Citizen	029 030 112 121
20	Colortyme	016
22	Craig	118
23	Curtis Mathes	016 029 031
24	Cybernex	012 029
25	Cyperpower	111
20	Daewoo	018 032 051 093 121
28	DBX	016
29	Dell	111
30	Denon	013
31	DiamondVision	107
33	Dishpro	110 122 124 125 129 130 134 136
34	Durabrand	025
35	Dynatech	008 032
36	Echostar	133
37	Electronome	010 030 112
39	Emerson	008 010 020 030 031 032 105 112 116 121
40	ESA	101
41	Expressvu	133
42	Fisher	028 073
43	Funai	031
45	Garrard	008 032
46	Gateway	111
47	GE	012 029 031 055 119
48	GO VIDEO	012 072
50	Goldstar	016 030 106 112 120
51	Gradiente	008 032
52	Harley Davidson	032
53	Harman/Kardon	016
55	Headquarter Hewlett Packard	028
56	Hitachi	008 013 048
57	HNS	110
58	Howard Computers	111
- 59 - 60	HTS	111
61	Hughes Network System	ns 013 110 122 124 125 130
62	Humax	110 122
63	Hush	111
65		
66	Instant Replay	031
67	JC Penney	016 028 029 030 031
68	JCL	031
69	JVC	014 015 016 028 040 059 060 083 084 085 086 122 133
71	Kenwood	016.028
72	Kodak	030 031 112
73	LG	030 081 091
74	Linksys	
76	Lloyd's	008 032
77	Magnasonic	020 112
78	Magnavox	008 020 021 025 027 031 044
79	Magnin	012 030 119
80	Marantz	016 028 031
82	Matsushita	030 112
83	Media Center PC	111
84	MEI	031

NO	Brand	Cada
NU.	Branu	
85	Memorex MGA	008 012 025 028 029 030 031 032 100 108 112 114 117 120
87	MGN Technology	012 029
88	Microsoft	111
89	Mind	111
90	Minolta	013
91	Mitsubishi	031
93	MTC	008 012 029
94	Multitech	008 029 032
95	NEC	016 028
96	Nikko	030 112
97	Niveus Media	111
98	Nothcate	111
100	Olympus	031
101	Optimus	020 030 112 117
102	Optonica	023
103	Orion	045 108
104	Panasonic	000 001 002 003 031 035 037 056 063 079 089 098 109 117 128
105	Pentax	013
107	Philco	031
108	Philips	023 031 044 071 087 110 116 122 124 125 126
109	Philips Magnavox	044
110	Pilot	030 112
112	Polarold	104 115
112	Profitronic	012
114	Proscan	069 070 134
115	Pulsar	025
116	Pye	103
11/	Quarter	028
110	Qualiz	031 076 117
120	Radio Shack	008 023 030
121	Radio Shack/Realistic	023 028 029 030 031 032
122	Radix	030 112
123	Randex	030 112
124	RCA	011 012 013 029 031 034 058 067 097 110 119 122 124 134 136
125	Realistic	100 127
120	Ricavision	111
128	Runco	025
129	Samsung	012 017 018 019 029 043 049 050 068 080 110 124
130	Sanky	025
131	Sansui	008 045 102 108 114
132	Scott	012 028 029 073 119
134	Sears	008 013 028 030 031 112 120
135	Sharp	022 023 052 090 096
136	Shogun	012 029
137	Singer Sonia Pluo	031
130	Sony	004 005 006 007 008 033 036 038 039 046 064 065 066 075 111
	Conj	123 131 135
140	Stack	111
141	STS	013 031
142	Superscan	021
143	Sylvania	008 010 020 021 031 032 048 062 088 116
145	Systemax	111
146	Tagar Systems	111
147	Tandy	028
148	Tashiko	030
149	Technics	008 032
151	Teknika	008 030 031 032 112
152	Thomas	008
153	Tivo	110 122 123 124 126 130 131 135
154	TMK	012 029
155	Toshiba	009 010 018 042 047 053 054 057 061 077 111 132
157	Touch	012 029 030 112 111
158	UltimateTV	136
159	Unitech	012 029
160	Vector	018
161	Vector Research	016
162	Video Concepts	016 018
164	Videosonic	012 029
165	Viewsonic	111
166	Villain	008
167	Voodoo	111
168	Wards	008 012 013 023 029 030 031 032
159	vvnite vvestinghouse	105
171	Yamaha	016 028
172	Zenith	008 024 025 026 078 092
173	ZT Group	111

Remote Control Codes

SETBOX

NO.	Brand	Code
1	AccessHD	076
2	Alpha Digital	076
3	Alphastar	036
4	Artec	072
5	CaptiveWorks	067
6	Channel Master	078
7	Chaparral	027
8	Coolsat	066
9	Coship	083
10	Crossdigital	099
12		0/7
_12	DIRECTV	000 007 008 009 010 011 012 017 022 023 024 025 026 040 043
13	Dish Network	000 001 002 003 013 014 087 089 092 095
14	Dishpro	087 089 092 095
15	Drake	028
16	Echostar	000 013 014 087 089 092 095 098
17	Expressvu	089 095 098
18	GE	004 005 080
19	General Instrument	029 093
20	GOI	095
	Goodmind	081
	Hisense	094
23	HILACHI	023 037
24	Hughes Network System	095
26	Humax	068
27	llo	094
28	Insignia	075
29	Jerrold	093
30	JVC	000 013 014 095
31	Lasonic	082
32	LG	059 071
33	Magnavox	022 073
34	Memorex	022
35	Mitoubiobi	074
37	Meterolo	000.003
38	Next Level	090 093
39	Panasonic	009 057 060 061
40	Pansat	064
41	Paysat	022
42	PCT	078
43	Philco	073
44	Philips	008 016 017 019 021 022 049 050 085
45	Pioneer	008
46	Primestar	035
47	Proscan	004 005 051 088
49	Radio Shack	002
50	RCA	004 005 006 019 025 039 041 044 045 046 047 048 051 069
51	Realistic	030
52	Samsung	008010 018 019 020 053 056 058
53	Sharp	062
54	Sony	007 015 042 043 054 055 086
55	Star Choice	090 093
56	STS	038
57	STS1	031
58	S1S2 STS2	032
- 59	3133 STS4	033
61	Tivar	0776
62	Tivo	008.019
63	Toshiba	011
64	UltimateTV	086
65	Uniden	022
66	US Digital	094
67	Viewsat	065
68	Voom	093
69	∠enith	012 070 079
70	∠entech	084

CABLE

NO.	Brand	Code
1	ABC	009 010 011 013 031 044
2	Adelphia	007
3	Americast	050
4	Antronix	015 016

NU.	Brand	Code
5	Archer	016
6	AT&T	003
7	Bell South	050
8	Cable Vision	006
9	Cabletenna	015
10	Cableview	014
12	ClearMaster	049
13	Colour Voice	018
14	Comcast	000 005
15	Comtronics	019
16	Contec	020
17	Coolmax	049
18	COX	005
19	Daeryung	057
20	Director	043
21	Eastern	056
23	Everguest	021
24	Focus	048
25	GC Electronics	016
26	GE	009 010
27	Gehua	055
28	Gemini	045
29	General Instrument	005 008 010 040 042 043
30	Gulastar	022
32	Hitachi	010
33	Jasco	045
34	Jerrold	008 010 031 032 040 042 043 045
35	LG	053
36	Magnavox	025
37	MegaCable	005
38	Memorex	024 044
39	Motorola Mauria Tima	000 003 005 008 039 040 042 043
40	Multitoch	025
41	NEC	049
43	NET Brazil	036
44	NSC	025
45	Oak	020
46	Pace	001 047
47	Panasonic	028 030 044
48	Paragon	044
49 50	Philips	017 018 023
50	Tioneer	002 026 033 036 046
	Popular Mechanics	049
52	Popular Mechanics Proscan	048
51 52 53	Popular Mechanics Proscan Pulsar	048 009 010 044
52 53 54	Popular Mechanics Proscan Pulsar Quasar	048 009 010 044 044
52 53 54 55	Popular Mechanics Proscan Pulsar Quasar Radio Shack	048 009 010 044 044 045 049
52 53 54 55 56	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA	048 009 010 044 044 045 049 014 030
51 52 53 54 55 56 57 50	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic	048 009 010 044 044 045 049 014 030 016 110
51 52 53 54 55 56 57 58 59	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Beccal	048 009 010 044 044 045 049 014 030 016 048 048
51 52 53 54 55 56 57 58 59 60	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Begency	048 009 010 044 045 049 014 030 016 048 020 021
51 52 53 54 55 56 57 58 59 60 61	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt	048 009 010 044 045 049 014 030 016 048 020 021 010
51 52 53 54 55 55 56 57 58 59 60 61 62	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco	048 009 010 044 044 045 049 014 030 016 048 020 020 021 010 010 010 044 048 020 021 021 021 010 010 044 044 044
51 52 53 54 55 56 57 58 59 60 61 62 63	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regancy Regency Rembrandt Runco Samsung	048 009 010 044 045 049 014 030 016 020 021 021 010 010 010 010 010
51 52 53 54 55 56 57 58 59 60 61 62 63 64	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regal Regency Rembrandt Runco Samsung Scientific Atlanta	048 009 010 044 044 045 049 014 030 016 048 020 021 020 021 010 044 001 026 035 046 001 002 003 007 013 037 038 041
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal	048 009 010 044 045 049 016 030 016 048 020 021 010 044 001 026 035 046 001 002 003 007 013 037 038 041 045 040
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signature Sony	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 026 035 046 001 002 003 007 013 037 038 041 045 010 026 051 021
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signature Sony Sony	048 009 010 044 044 045 049 014 030 016 048 020 021 010 044 001 026 035 046 001 002 003 007 013 037 038 041 045 010 006 051 030
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signature Sony Sprucer Standard Component	048 009 010 044 044 045 049 016 020 021 020 021 010 044 010 26 035 046 001 002 003 007 013 037 038 041 045 001 002 003 007 013 037 038 041 045 001 002 003 007 013 037 038 041 045 010 026 051 030 027
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Signal Signature Sony Sprucer Standard Component Starcom	048 009 010 044 045 049 014 030 016 020 021 010 001 026 035 046 001 002 003 007 013 037 038 041 045 010 001 002 003 007 013 037 038 041 005 051 030 027 031 045
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signalure Sony Sprucer Standard Component Stargate	048 009 010 044 045 049 014 030 016 048 020 021 010 044 000 010 011 001 002 003 007 013 037 038 041 001 002 003 007 013 037 038 041 005 051 006 051 030 027 031 045 045
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signature Sony Sony Standard Component Stargate Stargate	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 026 035 046 001 002 003 007 013 037 038 041 045 010 030 030 031 032 034 045 045 045 045
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Sony Sprucer Standard Component Stargate Starquest Supercable	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 002 003 007 013 037 038 041 045 010 006 051 030 027 031 045 045 045 045 045 045 045 045 046 047 048 049
51 52 53 54 55 56 57 58 59 60 61 62 63 66 67 68 69 70 71 72 73 74	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regancy Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Stangal Standard Component Starcom Stargate Stargate Supercable Superca	048 009 010 044 045 049 014 030 016 048 020 021 010 044 000 011 02 003 007 013 037 038 041 001 002 003 007 013 037 038 041 006 051 030 027 031 045 045 045 045 045 046 047 048 049 041
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signalure Sony Sprucer Standard Component Stargate Starquest Supercable Supermax TIME WARNER Tocom	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 02 035 046 001 002 003 007 013 037 038 041 045 010 000 051 030 027 031 045 045 045 045 045 045 045 045 045 045 045 045 040 041
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 76 77	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signalure Sony Sprucer Stardard Component Starquest Supercable	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 002 003 007 013 037 038 041 001 002 003 007 013 037 038 041 005 051 030 027 031 045 045 045 045 046 047 048 049 004 011 026 027 031 045 045 045 045 046 047 048 049 041 042 043 044 045 045 046 047 048 049 044 045 046 047 048 049
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 73 74 75 76 77 78	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signature Sony Sprucer Standard Component Starquest Starquest Supercable Supercable Supercable Supermax TIME WARNER Tocsmiba	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 026 035 046 001 002 003 007 013 037 038 041 045 010 030 027 031 045 045 045 045 045 045 045 045 045 045 045 045 045 045 045 045 046 047 048 049 004 011 052 044
51 52 53 54 55 56 57 58 59 60 61 62 63 66 66 67 68 69 70 71 72 73 76 77 78 79	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signalure Sony Sprucer Standard Component Stargate Starquest Supercable Supermax TIME WARNER Tocom Torx Toshiba Trans PX	048 009 010 044 044 044 014 030 016 048 020 021 010 044 000 021 010 044 001 026 035 046 001 002 003 007 013 037 038 041 045 010 006 051 030 027 031 045 045 046 047 048 049 004 011 052 044 054
51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 79 80	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Stardard Component Stardard Component Stargate Starquest Supercable Supercable Supermax TIME WARNER Tocom Torx Toshiba Trans PX Tristar	048 009 010 044 045 049 014 030 016 020 021 010 024 010 021 010 024 010 024 001 026 035 046 001 002 003 007 013 037 038 041 045 010 006 051 030 027 031 045 045 045 045 046 047 052 044 052 044 052 044 054 049
31 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 78 77 78 80	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signalure Sony Sprucer Standard Component Stargate Starquest Starquest Supercable Supercable Supercable Supercable Supercable Supercable Supercable Supercable Tocom Torx Toshiba Trans PX Tistar TS	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 02 035 046 001 002 003 007 013 037 038 041 045 010 045 010 045 010 045 010 045 010 045 046 047 031 045 045 046 047 048 049 044 054 049 052
52 53 55 55 55 55 55 55 55 55 55 55 55 55	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signalure Sony Sprucer Stardard Component Starquest Supercable Supercable Supercable Supercable Time WARNER Tocom Torx Toshiba Trans PX Tristar TS Tusa	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 002 003 007 013 037 038 041 001 002 003 007 013 037 038 041 005 051 030 027 031 045 045 045 045 045 045 045 046 047 048 049 052 044 054 045 045 052 044 054 045 046 047 048 054 049 052 043 044 045 045 045 045 045
51 52 53 55 55 56 57 58 59 60 61 62 63 64 65 66 67 70 73 74 75 76 77 78 80 82 83	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Signal Sony Sprucer Standard Component Stargate Starquest Supercable Supercable Supercable Supercable Supercable Supercable Tocom Torx Tochba Trans PX Tristar TS Tusa	048 009 010 044 044 045 049 016 048 020 021 010 044 0010 021 010 044 00102 003 007 013 037 038 041 005 010 006 051 030 027 031 045 045 046 047 048 049 004 045 046 047 048 049 040 041 042 043 044 054 054 054 054 054 055 056 057 058 059 051 052 053 054
51 52 53 55 55 56 57 58 59 60 61 62 63 64 65 66 67 70 73 74 75 76 77 79 80 81 82 83	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Signal Starquest Starquest Starquest Supercable Supercable Supermax TIME WARNER Tocom Torx Toshiba Trans PX Tristar TS Tusa Tv86 Unika Unika Unika	048 009 010 044 045 049 014 030 016 048 020 021 010 044 000 011 02 010 014 010 020 021 010 044 001 002 003 007 013 037 038 041 045 010 006 051 030 027 031 045 045 045 046 047 052 044 052 044 052 045 046 052 045 046 052 043 044 052 045 045 045 045 046 0516 052 <t< td=""></t<>
31 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 72 73 74 75 77 78 80 81 82 83 84	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Signal Starquet Starquet Starquest Starquest Supercable Supermax TIME WARNER Tocom Torx Torx Trans PX Tristar TS Tusa Tv86 Unika Unika Unika Unikat Son Pulsar	048 009 010 044 045 049 014 030 016 020 021 010 044 000 020 021 010 044 00102 003 007 013 037 038 041 001 002 003 007 013 037 038 041 005 010 006 051 030 027 031 045 045 046 047 048 049 044 052 045 046 051 052 045 052 045 052 045 052 045 052 045 052 053 054 045 052 053 054 055 050
31 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 80 81 82 83 84 85 86	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signalure Sony Sprucer Standard Component Stargate Starquest Starquest Supercable Superca	048 009 010 044 045 049 014 030 016 048 020 021 010 044 001 02 035 046 001 002 003 007 013 037 038 041 045 010 006 051 030 027 031 045 045 046 047 048 049 052 044 054 052 054 055 056 057 058 059 0516 0516 0516 0516 0516 0516
31 52 53 55 55 56 57 58 59 60 63 64 65 66 67 77 73 77 77 78 79 80 81 82 88 88	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Signal Signal Sony Sprucer Standard Component Starquest Starquest Supercable Supe	048 009 010 044 045 049 016 048 020 021 010 044 020 021 010 044 001 02 035 046 001 002 003 007 013 037 038 041 045 010 026 035 10 030 027 031 045 045 045 046 047 048 049 052 044 054 049 052 044 054 045 052 044 054 045 052 044 051 052 045 052 053 054 055 056 057 058
31 52 53 55 55 56 57 58 59 60 61 62 63 64 65 66 67 70 77 76 77 78 79 80 82 88 88 88	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Signal Signal Signal Starque Starque Starquet Stargate Starquest Supercable Supercable Supercable Supercable Supercable Supercable Supercable TiME WARNER Tocom Torx Toshiba Trans PX Tristar TS Tusa Tv86 United Cable Universal V2 View Star	048 009 010 044 044 045 049 014 030 016 048 020 021 010 044 010 044 010 044 010 044 001 002 003 007 013 037 038 041 045 010 006 051 030 027 031 045 045 045 046 047 048 049 004 011 052 044 054 049 052 044 054 045 046 051 052 053 054 055 0516 0516 0516 0516 052 <t< td=""></t<>
31 52 53 54 55 55 56 57 58 59 60 61 62 63 64 65 66 67 73 74 69 70 77 78 79 80 81 82 83 84 85 86 87 90	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Signal Starquest Starquest Starquest Supercable Supercable Supermax TIME WARNER Tocom Torx Toskiba Trans PX Tristar TS Tusa Tv86 Unika United Cable Universal V2 View Star Vision	048 009 010 044 044 045 049 014 030 016 048 020 021 010 044 000 021 010 044 001 026 035 046 001 002 003 007 013 037 038 041 045 010 006 051 030 027 031 045 045 045 046 047 048 049 004 011 052 044 055 045 046 047 058 049 041 052 043 044 055 045 045 045 045 045 045 045
31 52 53 54 55 55 56 57 58 59 60 61 62 63 64 65 66 67 70 71 76 77 78 80 81 82 83 84 85 86 87 88 90 91	Popular Mechanics Proscan Pulsar Quasar Radio Shack RCA Realistic Recoton Regal Regency Rembrandt Runco Samsung Scientific Atlanta Signal Signal Signal Signal Starques Stardard Component Stardard Component Stargate Starquest Supercable Supermax TIME WARNER Tocom Torx Torx Torx Toss Trans PX Tristar TS Tusa Tv86 Unika Unika Unika Unika Unika Unika Unika Unika V2 View Star Vision Vortex View Zashb	048 009 010 044 045 049 014 030 016 020 021 010 044 000 000 000 013 037 038 041 045 010 001 002 003 007 013 037 038 041 005 051 030 027 031 045 044 054 044 055 045 046 047 031 045 044 054 045 052 054 045 045 045 052 045 045 045 045 045 046 051 052 043 045 045 045 045 046 047 018 0

Remote Control Codes

AUDIO

NO.	Brand	Code
1	Accuphase	292
2	Acurus	266
3	ADC	319
4	Adcom	208 219
6	Admirai	308
7	Aiwa	118 126 168 318
8	Akai	310
9	Alco	332
10	Altec Lansing	301
12	Amphion Media Works	325
13	Anam	321
14	Angstrom	267
15	Apex	195
16	Arcam	294 311
18	Audiosource	322
19	Audiovox	190 214 220 332
20	B & K	213 236
21	Bang & Olufsen	336
22	Bel Canto Design	269
23	BOSE	071 088 285
25	Boston Acoustics	305
26	California Audio Labs	271
27	CambridgeSoundWork	s 241
28	Capetronic	319
30	Carv Audio Design	272
31	Casio	329
32	Chase Technologies	273
33	Clarinette	329
34	Classic	297
36	Coby	147 331
37	Creative	274 302
38	Curtis	207
39	Curtis Mathes	283
41	Denon	053 054 055 056 057 133 134 156 157 158 160 161
		163 164 165 171 172 176 180 185 187 188 189 206
42	Digital Audio Control	275
43	Duai	238
45	Eclipse	218
46	Elan	295
47	Emerson	229
48	Fisher	326
50	Fosgate	276
51	GE	048 282
52	Glory Horse	331
53	Go Video	306
55	Gradiente	235 313
56	Harman/Kardon	177 224 286 318
57	Hitachi	326
58	iLive	244
- 59	Inkel	314
61	Integra	317
62	iSymphony	245
63	Jamo	256
64	JBL	186 193
66	JVC	
		331
67	Kenwood	038 039 040 041 042 073 082 089 095 115 122 130
68	КІН	135 323
69	Knoll Systems	277
70	Koss	237 324
71	Krell	225
72	Left Coast	386
74		299 333
75	Linn	318
76	Lloyd's	329
77	Logitech	278
78	Luxman	279 288

NO.	Brand	Code
79	Magnavox	075 191 318 319 322 329
80	Marantz	215 228 260 286 291 318 322 328
81	Mark Levinson	298
82	McIntosh	227
83	MCS	328
84	Memorex	315
85	Midiland	280
86	Mitsubishi	184 194
8/	MAD	329
88	NAD	261 335
09	NEC	291 334
90	Nikko	290
92	Onkyo	281
	onnyo	167 178 181 203 217
93	Optimus	283 293 319 320 321 330
94	Oritron	324
95	Panasonic	019 020 201 022 023 024 069 076 077 091 098 107 113 144 151
		209 328
96	Parasound	230
97	Penney	329
98	Philco	332
99	Philips	183 210 286 294 318 322
100	Pioneer	025 026 027 028 029 030 031 062 068 072 090 100 101 105 123
		132 148 149 162 212 246 247 248 249 250 251 252 253 254 283
		287 319 320
101	Polaroid	222 226
102	Polk Audio	216 286 318
103	Prima	307
104	Proscan	048
105	Qisheng	304
106	Quasar	328
107	RadioSnack	331
100	RCA	048 049 050 051 151 137 234 283 319 320 321 332
110	Regent	293 329
111	Rio	333
112	Rotel	321
113	Samsung	084 103 138 143
114	Sansui	291 318
115	Sanyo	238 326
116	Sharp	205 242 296
117	Sharper Image	331
118	Sherwood	145 243
119	Shure	290
120	Sonic Blue	327
121	Sony	000 001 002 003 004 005 006 007 058 058 059 060 061 063 064
		065 066 067 070 074 079 085 093 108 109 110 111 112 117 125
		128 129 131 140 170 262 263 264 265
122	Soundesign	282 289 330
123	Soundmatters	232
124	Storoophonics	316
125	Stereophonics	320
120	Junine	323
12/	Technics	223 321 332
120	Thorens	002 080 114 110 141 328
130	Toshiba	522
131	Tview	250
132	Venturer	239 332
133	Victor	284
134	Wards	282 287 289 318
135	Xantech	300
136	Yamaha	008 009 010 011 012 013 014 015 016 017 018 078 083 092 096
		099 102 106 120 139 142 153 154 155 169 173 174 179 192 197
		198 199 200 201 202 204 255 317
137	Yorx	329
138	Zenith	136 159

Maintenance

Early malfunctions can be prevented. Careful and regular cleaning can extend the amount of time you will have your new TV. Be sure to turn the power off and unplug the power cord before you begin any cleaning.

Cleaning the Screen

- 1. Here's agreat way to keep the dust off your screen for a while. Wet a soft cloth in a mixture of lukewarm water and a little fabric softener or dish washing detergent. Wring the cloth until it's almost dry, and then use it to wipe the screen.
- 2. Make sure the excess water is off the screen, and then let it air-dry before you turn on your TV.

Cleaning the Cabinet

To remove dirt or dust, wipe the cabinet with a soft, dry, lint-free cloth. Please be sure not to use a wet cloth.

Extended Absence

If you expect to leave your TV dormant for a long time (such as a vacation), it's a good idea to unplug the power cord to protect against possible damage from lightning or power surges.

Product Specification

Resolution	1366X768(Dot)
Power requirement	120V~ ,60Hz
Stand-by Consumption	less than 1W
Color system	NTSC, ATSC, Clear QAM
External Antenna Impedance	75 ohm
Color	16,770,000(256 steps of each R, G and B)
Operating Temperature Range	32~104°F(0~40°C)
Operating Humidity Range	Less than 80%
Maximum Elevation	6561 feet (2000m)

Dimensen(WXDXH) Unit:inches/mm (Including stand)	Weight(pounds/kg)
31.3X9.2 X22.9inches 796X233X582 mm	27.6/12.5

■ The specifications shown above may be changed without prior notice for quality improvement.

Troubleshooting

For the sake of time and cost, it is strongly recommended that you check out the problem by yourself according to the instructions listed hereunder before contacting the after-sales service for technical assistance.

No picture, no sound	Verify if the television is properly plugged. Verify if the television is properly supplied power. Verify if electricity is available.
Blank screen	Verify if correct signals are input. Press INPUT button to change signal input to TV input. Restart the television of power supply is interrupted.
No sound	Press Mute button and verify if Mute mode is set. Switch to other channel and verify if the same problem happens. Press VOL+ button to see if the problem can be solved.
Poor sound	Verify if sound system is correct. Refer to Page 22 for adjustments.
No picture in some channel	Verify if correct channel is selected. Adjust the antenna. Make adjustments by Fine Tune and Manual Scan.
No color for some channel program (black and white)	Verify if the same problem exists in other channels. Check out of picture and sound systems. Refer to relative instructions in the Manual for color adjust.
Spots with some or all pictures	Verify if the antenna is correctly connected. Verify if the antenna is in good condition. Make fine adjustment of channel.
Horizontal/vertical bars or picture shaking	Check for local interference such as an electrical appliance or power tool.
Television out of control	Disconnect the television from power supply and, 10 seconds later, connect the television to the power supply. If the problem still exists, contact authorized after-sales service for technical assistance.

Note: Do not leave the television with static picture in an extended period as the image may become permanently burned.

Note: Production of the LCD screen requires high and precision technologies. However, there might be some dark or bright (red, blue or green) spots, or some anomalistic stripes or spots. This is not defect. If the TV set is used in an area 2,400 meters above the sea level where the air pressure is below 750hpa, the picture on the LCD screen may be affected and a muffled sound might be produced. These phenomena might happen in the area 1,500 meters above the sea level. This is resulted from difference between air pressures inside and outside the display. This is not a defect covered by the limited warranty.

Warranty



LIMITED WARRANTY - LCD

PWW Service Inc. warrants to you, the original purchaser of this Product, that this product shall be free of defects in material or workmanship for a period of one year (365 days) from the date of purchase as follows:

- LABOR: During the Warranty Period if this Product is determined to be detective, PWW Service Inc. will repair or replace the Product, at its option at no charge, or pay the labor charges to any authorized service facility. After the Warranty Period, you must pay for all labor charges.
- 2. PARTS: In addition, **PWW Service Inc.** will supply, at no charge, new or rebuilt replacement parts in exchange for defective parts for the Warranty Period. The LCD Panel contains pixels which are picture elements that make up the image seen on the TV display, **PWW Service Inc.** warranties the LCD panel will contain no more "dead or stuck" pixels that what is specified by the LCD module maker for the warranty period. After the Warranty Period, you must pay all parts costs. To determine what the dead/bright pixel specification for the panel maker in this product, please contact our service center for more information.

To obtain warranty service, you must take the Product with your **original receipt or other proof of purchase**, either in its original packaging or packaging affording an equal degree of protection, to your original place of purchase, or the location specified by **PWW Service Inc.** from which you purchased the Product.

This warranty does not cover customer instruction, installation, non-service related adjustments, removing / installing the TV from /to a mounting bracket and/or wall and resolving signal reception problems. Please note that this product's screen is made using high-precision technology. However, the screen may display multiple black or bright points of light (red, blue or green) constantly on the screen. Irregular colored stripes or varying brightness may also appear on the screen, and this is not a defect in material or workmanship that is covered by this warranty.

This warranty does not cover cosmetic damage or damage due to acts of God, lightning strikes, accident, misuse, abuse, negligence, commercial use, or modification of, or to any part of the Product, including the antenna. This warranty does not cover damage due to improper operation or maintenance, connection to improper voltage supply, or attempted repair by anyone other than a facility authorized by **PWW Service Inc.** to service the Product. This warranty does not cover Products sold **AS IS** or **AS REFURBISHED**, or consumables (such as fuses or batteries). This warranty is valid only in Canada.

This warranty is invalid if the factory applied serial number has been altered ar removed from the Product.

REPAIR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE CONSUMER. **PWW Service Inc.** Shall not be liable for any incidental or consequential damages for breach of any express or implied warranty on this product. Except to the extent prohibited by Applicable Law, any implied warranty, representation or condition of merchantability or FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some provinces do not allow the exclusion orlimitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may have other rights which vary from province to province.

For customer service please call 1-866-447-7462



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