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Information on Disposal of Waste Electrical and Electronic Equipment



WEEE STATEMENT

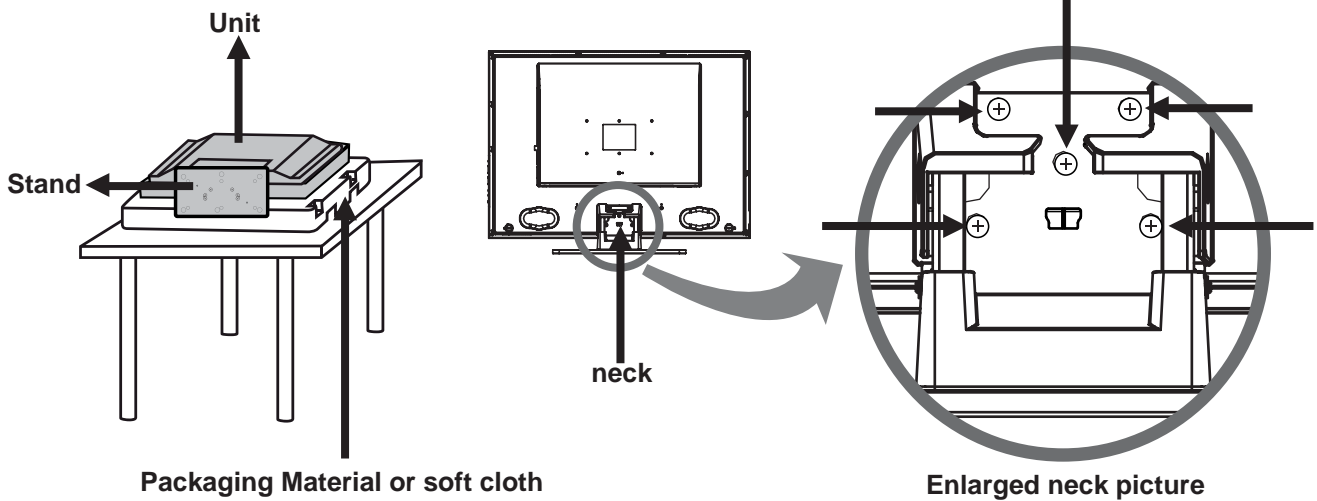
This product contains electrical or electronic materials. The presence of these materials may, if not disposed of properly, have potential adverse effects on the environment and human health. Presence of this label on the product means it should not be disposed of as unsorted waste and must be collected separately. As a consumer, you are responsible for ensuring that this product is disposed of properly. To find out how to properly dispose of this product, please go to www.polaroid.com and click on "Company" or call the customer service number for your country listed in the instruction manual.

Remove the neck of the base

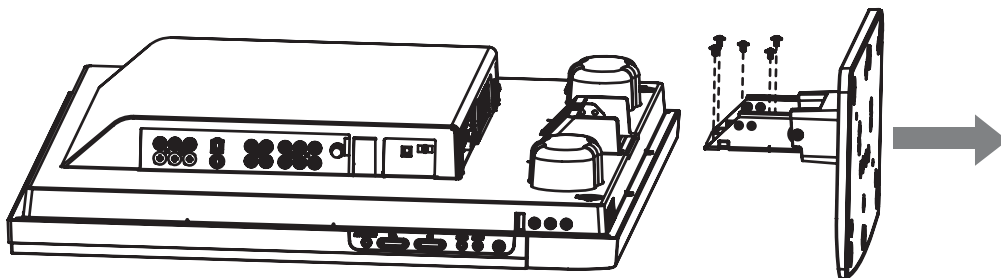
If you prefer to mount your TV, do not attach the stand. Remove the neck of the base from the back of the TV and use the instructions in your wall-mounting kit (not included).

IMPORTANT: Before removing the neck, place the TV on a stable surface with bottom foam packaging material or a soft cloth.

STEP 1 Loosen and remove the 5 screws that secure the base's neck to the TV.



STEP 2 Remove the base's neck from the TV.

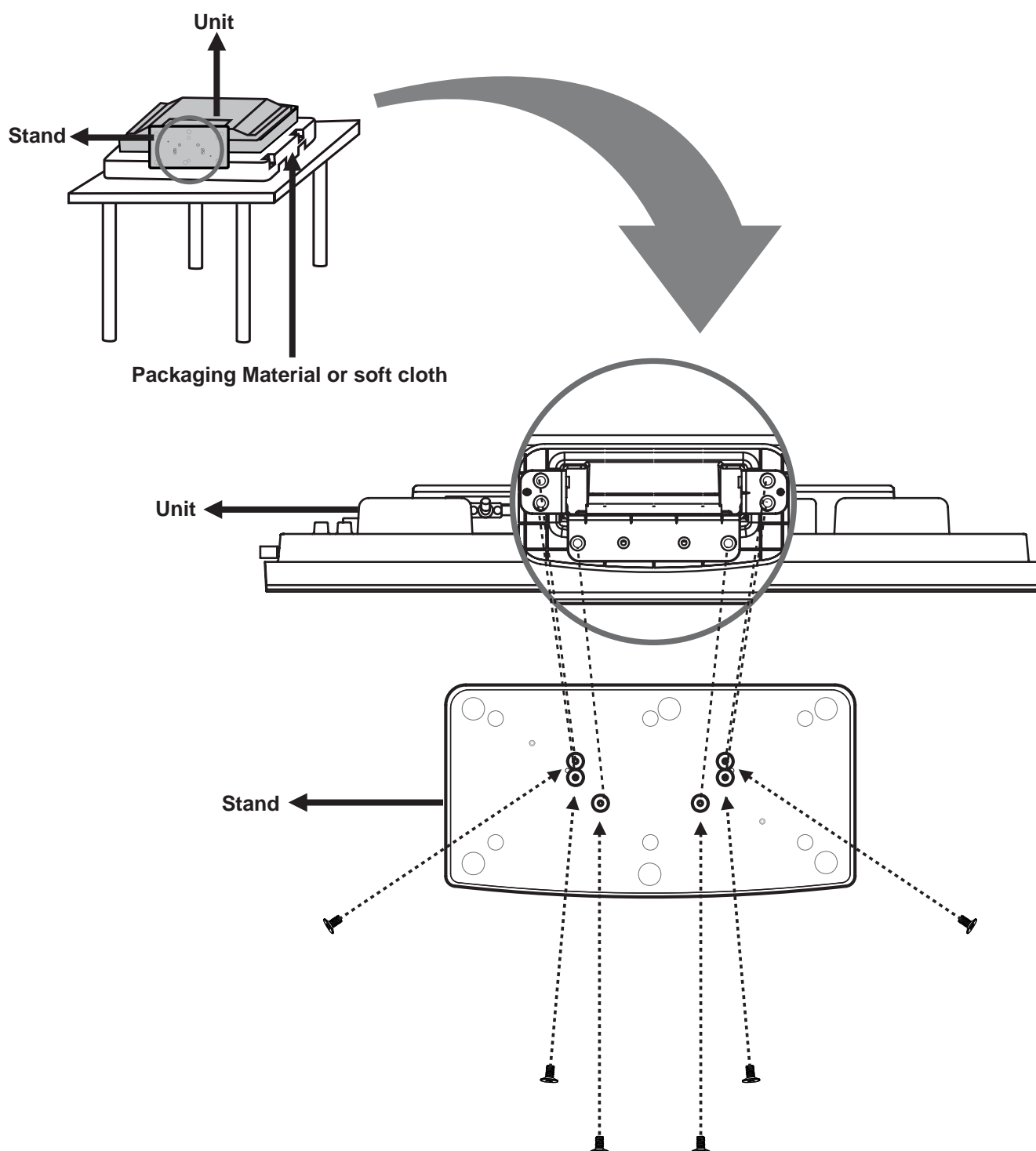


Attaching the stand

These instructions are designed to help you attach your stand easily and safely.
Please read carefully.

IMPORTANT : Attach the stand to your TV with bottom foam packaging material still attached.

Use all 6 screws (provided) to attach the stand to the TV.



IMPORTANT SAFETY AND PRECAUTIONS

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

Important Information

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



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

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

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

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

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

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



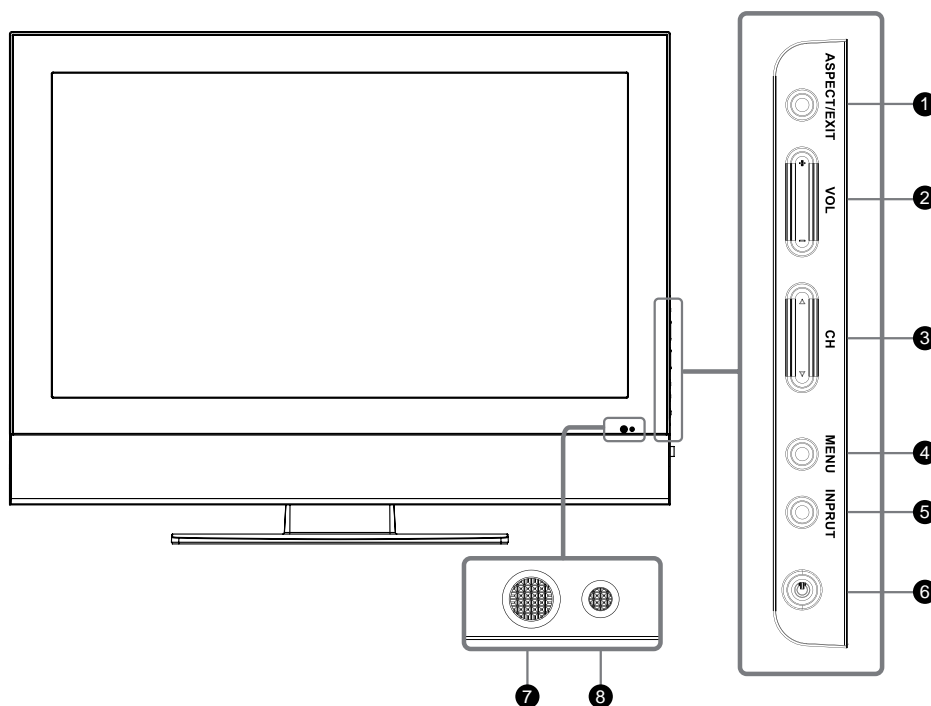
GENERAL INFORMATION

Features

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

- ◆ **MULTI-SOURCES INPUT INCLUDED RF IN, D-SUB, HDMI, COMPOSITE, S-VIDEO, AND COMPONENT.**
- ◆ **BUILT-IN COMBO TUNER IS ABLE TO RECEIVE ATSC, NTSC AND CLEAR QAM CABLE SIGNALS.**
- ◆ Universal remote control provides control of other devices such as Cable Converter, Satellite Receiver, DVD player, Audio Amplifier, VCR etc.
- ◆ For screen size 32"/37" built in 10W dual channel speakers are offered; for 42", 15W are offered.
- ◆ Embedded video enhancement and noise reduction features for the colorful and clearest picture possible.
- ◆ Provided multi-channel sound decoder for stereo and bilingual broadcasts.
- ◆ Automatic sleep timer control from 15 to 90 minutes.
The sequence is 15→30→45→60 →90.
- ◆ Automatic Power Off feature after 10 minutes without a signal.
- ◆ Component video input for high definition TV programming (HDTV ready), resolution up to 720p, 1080i.
- ◆ Automatic Picture Control (APC) and Aspect Ratio Control (ARC) functions for end user customization of viewing preferences.

Overview of the TV – Control Buttons and Indicators



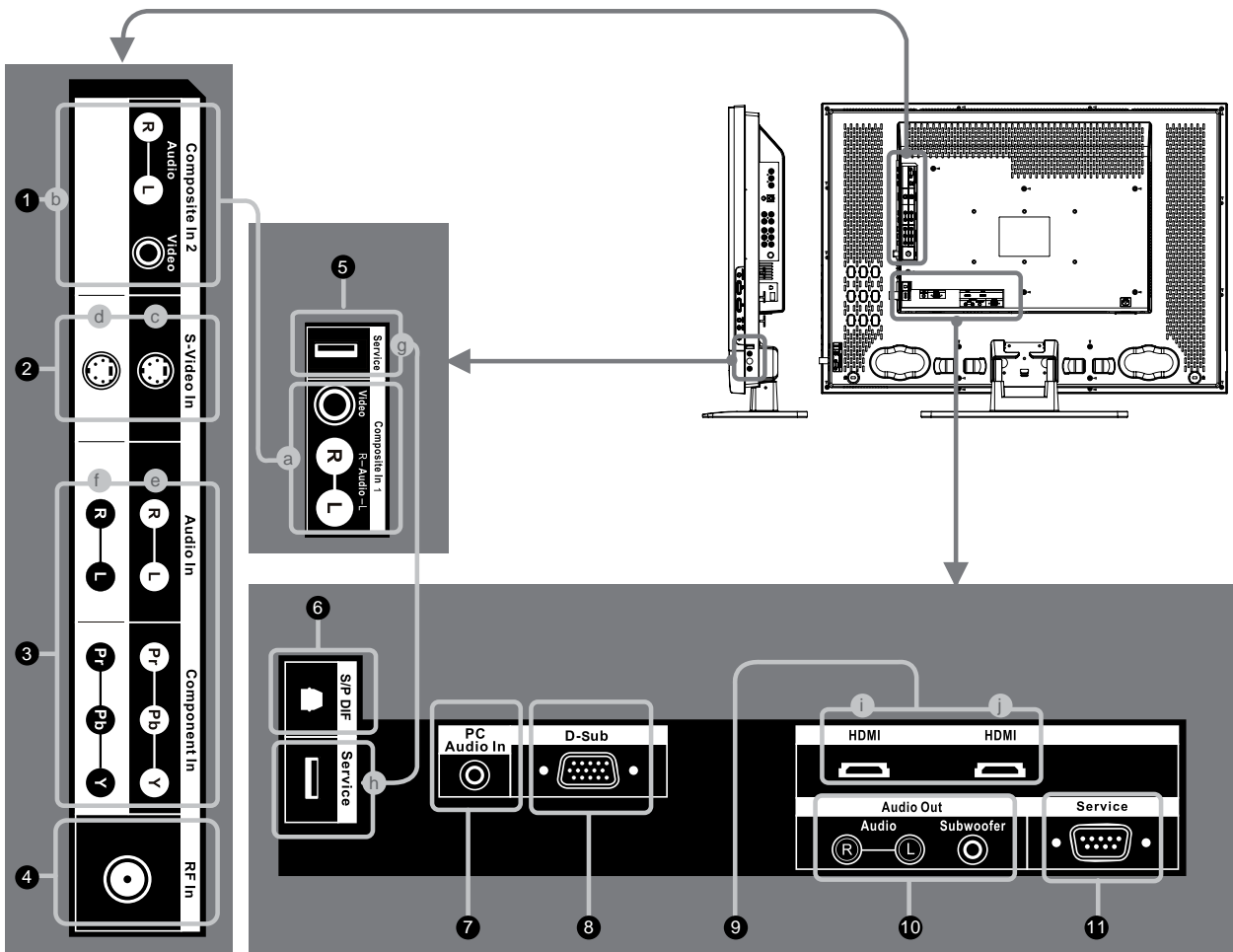
1. **ASPECT/ EXIT** : Select the display output mode (TV / Video mode: Normal, Full Screen, Zoom, Subtitle ; PC mode: Normal, Full Screen).
2. **VOLUME (+ / -)** : Increase/decrease the volume or function as the left/right arrow button for menu.
3. **CHANNEL (▲/▼)** : Change the channel or function as the up/down arrow button for menu.
4. **MENU** : Displays the main menu. When OSD (on-screen display) appears, press the button to select or access a sub-menu.
5. **INPUT** : Press INPUT button on the side of the TV and the source menu will appear on the screen. Press the CHANNEL (▲/▼) button to select your preferred source input (TV, Video 1 ,Video 2, YPBPR 1 , YPBPR 2 , PC, HDMI 1, HDMI 2) and press MENU button to confirm.
6. **POWER** : Turn the LCD-TV on or off.
7. **REMOTE CONTROL SENSOR** : Aim the remote control towards this spot on the TV.
8. **POWER INDICATOR** :
BLUE LIGHT — power on
PURPLE LIGHT — power saving; standby (offered in PC mode)
RED LIGHT — power off

NOTE 1 : These buttons on the TV is only for basic settings.

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

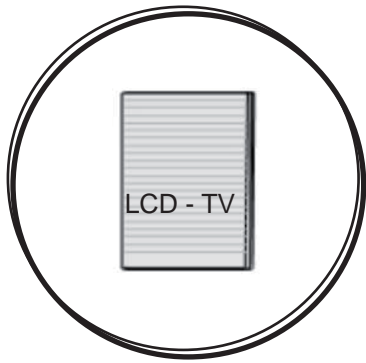
Overview of the TV – Connections

Side and Rear Panel



Jack	Description
1 (a/b) Composite In	Connects to the Composite video and audio output jacks on your VCR or other video devices.
2 (c/d) S-Video	Connect to the S-Video output jack on your VCR or other video devices for a sharper picture.
3 (e/f) Component In	Connect to your TV's component video (YPbPr) and audio (L/R) jacks.
4 RF In	Connect to an antenna or to a cable TV system.
5 (g/h) Service Port	Only for service use.
6 S/P DIF	Connect to a digital audio component.
7 PC Audio In	Connect to the audio output jack of your PC.
8 D-Sub	Connect to the video output on your PC. Please use additional cable for sound.
9 (i/j) HDMI (High Definition M u l t i m e d i a Interface)	Connect to the HDMI jack of the TV with an HDMI output, such as set-top box, DVD player, etc. You can also connect the TV with a DVI output by using an HDMI-to-DVI cable or HDMI-to-DVI adapter. Please use an audio cable, when using HDMI-to-DVI cable or adapter.
10 Audio Out	Connect to the audio input jacks on your Amplifier/Home theater.
11 Service Port	Only for service use.

Accessories



User's Manual



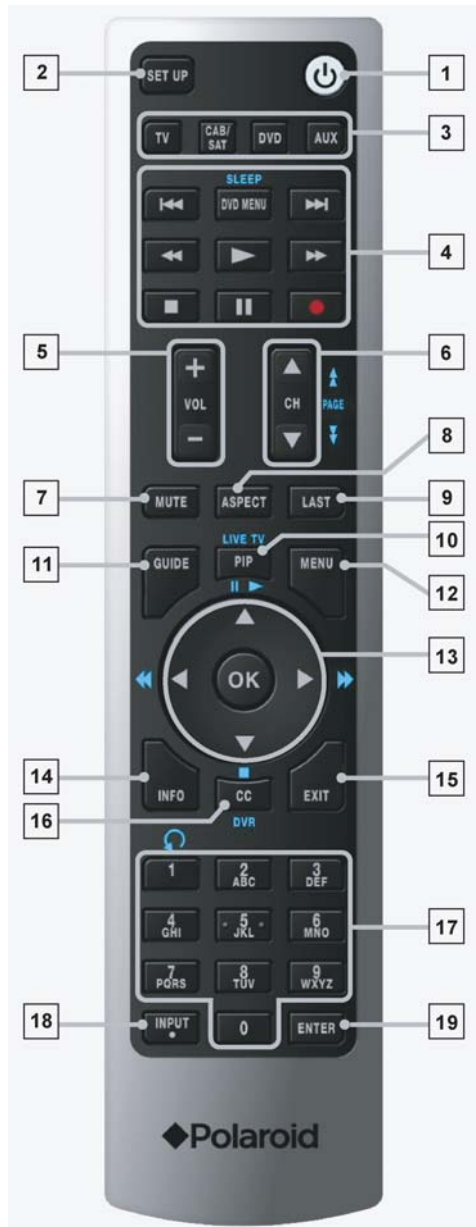
Remote Control & Batteries



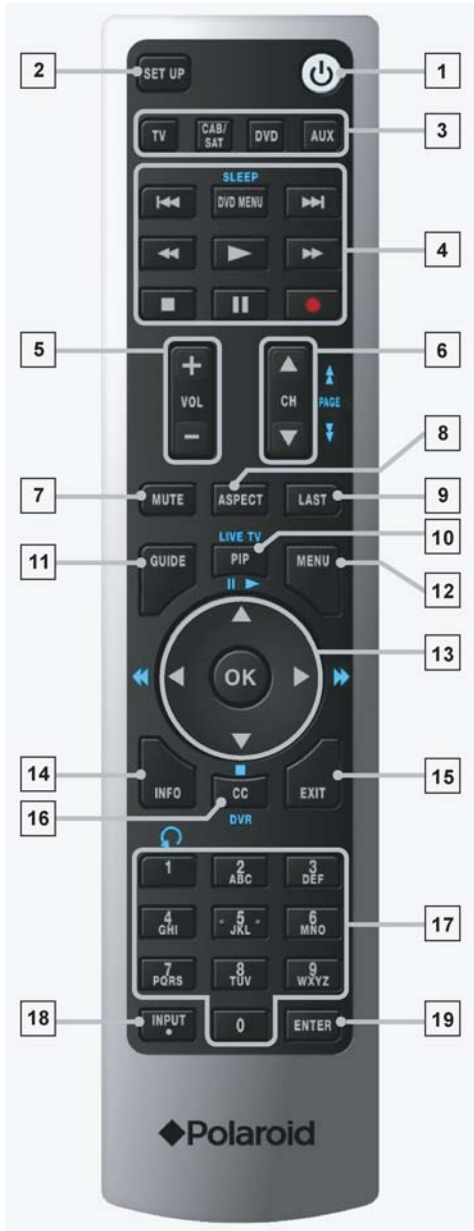
Power Cord

Remote Control

This universal remote control can operate up to four devices. When using the remote control in TV mode, please point the remote directly toward the Remote Control Sensor on the front panel. If you want to select other devices, simply press one of the buttons: TV, CAB/SAT, DVD or AUX.



1.	Power	
		Turn the device on or off
2.	SET UP	
		Press to program the remote control to operate other devices.
3.	TV, CAB/SAT, DVD, AUX	
		These buttons are designed to operate and control external devices. Please select one of these buttons first to operate your selected external device. See page 53-54 for Programming Remote Control.
4.	Control buttons	
		When you switch to CAB/SAT, DVD or AUX mode, these buttons operate the video device you have programmed into the remote control.
	DVD MENU / SLEEP.	Toggles the device menu.
	⏮	Skip Reverse
	⏭	Skip Forward
	⏪	Rewind
	⏩	Fast Forward
	▶	Play
	■	Stop
	⏸	Pause
	●	Record
5.	VOL + -	
		Press to increase or decrease the volume. If the audio was muted, pressing VOL + / - will un-mute the audio.
6.	CH ▲ ▼ / PAGE ▲ ▼	
		Press to change channel.
7.	MUTE	
		Temporarily turn off the sound.
8.	ASPECT	
		Toggle the picture mode between Normal → Full Screen → Zoom → Subtitle.
9.	LAST	

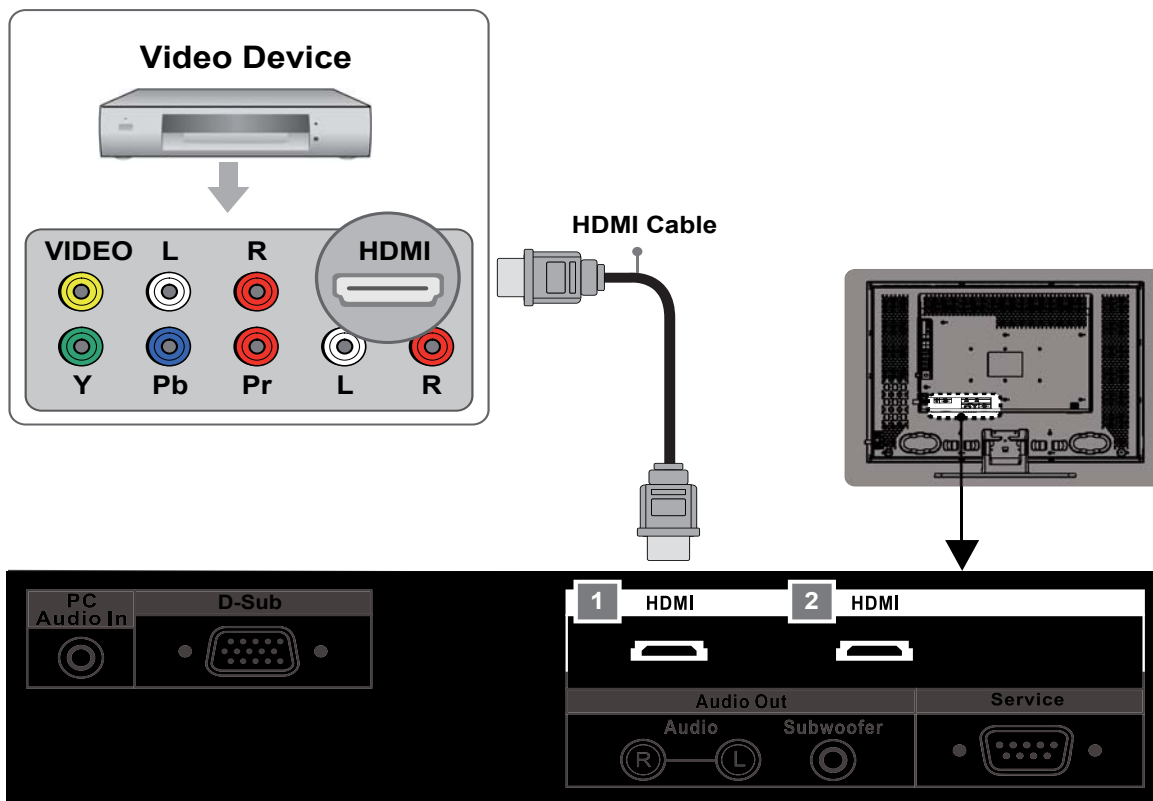


	Jumps back and forth between two channels.
10. PIP/LIVE TV	Your TV may not support PIP/LIVE TV.
11. GUIDE	If the system uses TV Guide, the Guide button switches to TV Guide. If not, and the system is in TV mode, the Guide button switches to broadcast mode and displays the Show Title Display (with Date and Time).
12. MENU	Toggle the main menu.
13. ▲▼◀▶	Press to move the on-screen display (OSD) highlight in the desired direction. In TV mode, please press MENU on the remote to enable OSD picture first and press ▲▼◀▶ to adjust settings. Arrow keys enables the Show Title Display (with Date and Time). The Right ▶ arrow button will access to the sub-menu. The Left ◀ arrow button will navigate back through the menu
OK	Press to select a currently highlighted on-screen choice. Without the presence of any UI (User Interface) screens, including OSD (on-screen display), the button enables Show Title Display (with Date and Time).
14. INFO	See information on the current broadcast.
15. EXIT	Press to exit all UI screens and menus.
16. CC/DVR	Press to enable or disable closed caption.
17. 0 – 9 NUMERIC BUTTONS	To manually select channels.
18. INPUT/ •	To select the video input source, be sure to exit OSD. The sequence is TV→Video 1→Video 2→YPBPR 1→YPBPR 2→PC→HDMI 1→HDMI 2. To select following sub-channels which display “.“, use this button along with 0-9 buttons to select digital channels, i.e 12.1.
19. ENTER	Press to access the sub-menu.

CONNECTIONS & APPLICATIONS

Connecting Video Devices via HDMI

* This can be applied only if there is the HDMI Output connector on the external device.



NOTE 1 : Video Device – e.g.: DVD Player, Set-top Box...etc.

NOTE 2 : HDMI - High-Definition Multimedia Interface

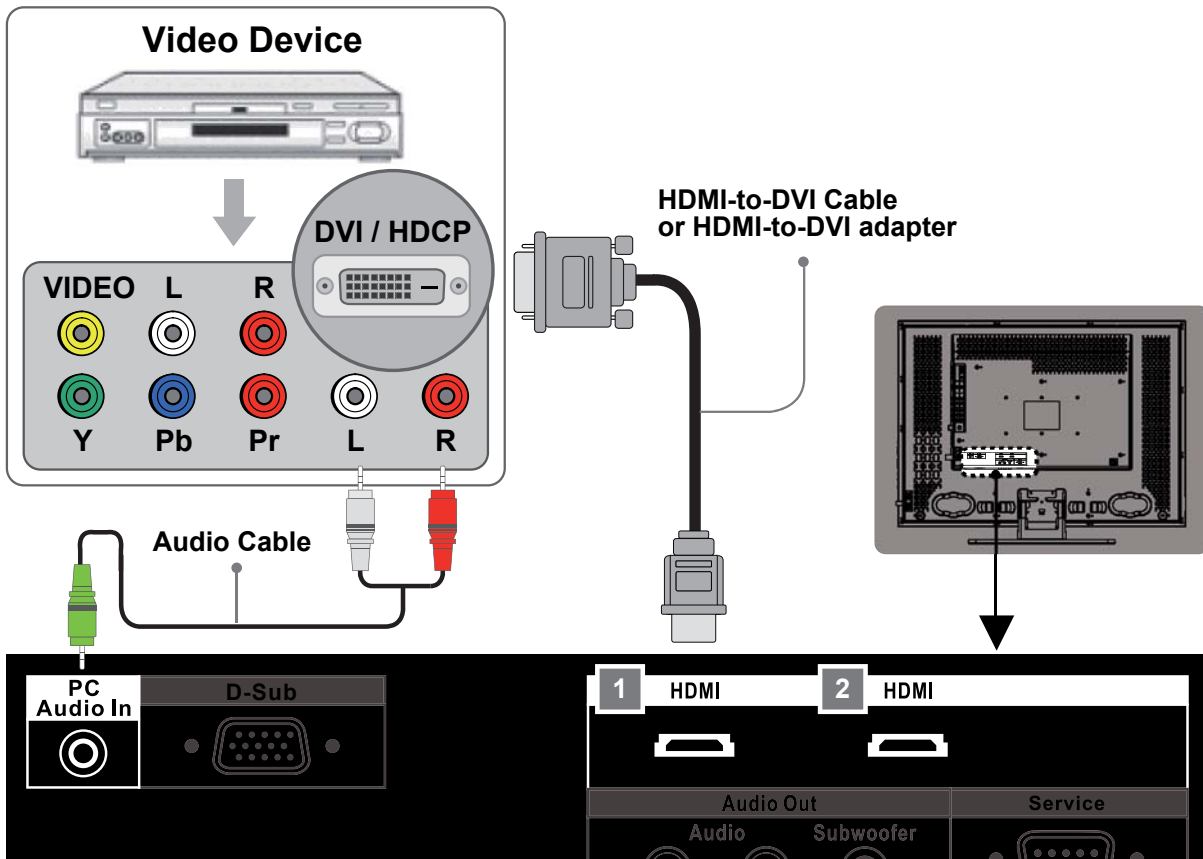
NOTE 3 : No sound connector is needed for an HDMI to HDMI connection.

NOTE 4 : Either HDMI 1 or HDMI 2 will work.

NOTE 5 : Cables not included

Connecting Video Devices via DVI

* This can be applied only if there is the DVI Output connector on the external device.



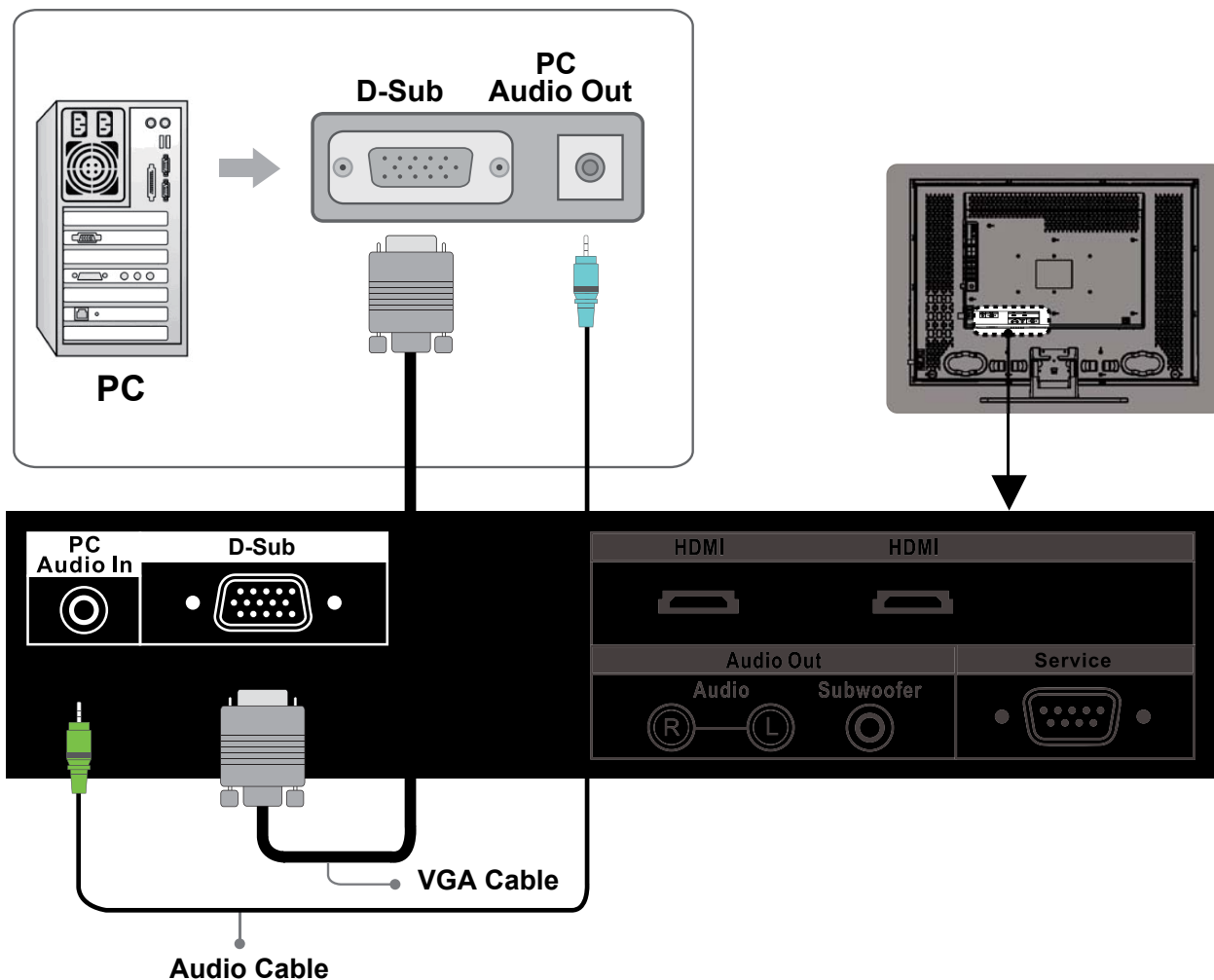
NOTE 1 : To receive video, connect a HDMI-to-DVI cable or HDMI-to-DVI adapter between the HDMI connector on the TV and the DVI connector on the DVD player/ Set-top box.

NOTE 2 : To receive sound, connect an audio cable between the PC Audio In jack on the TV and Audio Out jack on the DVD player/ Set-Top box.

NOTE 3 : Either HDMI 1 or HDMI 2 can work appropriately.

NOTE 4 : Cables not included.

Connecting PC via D-SUB

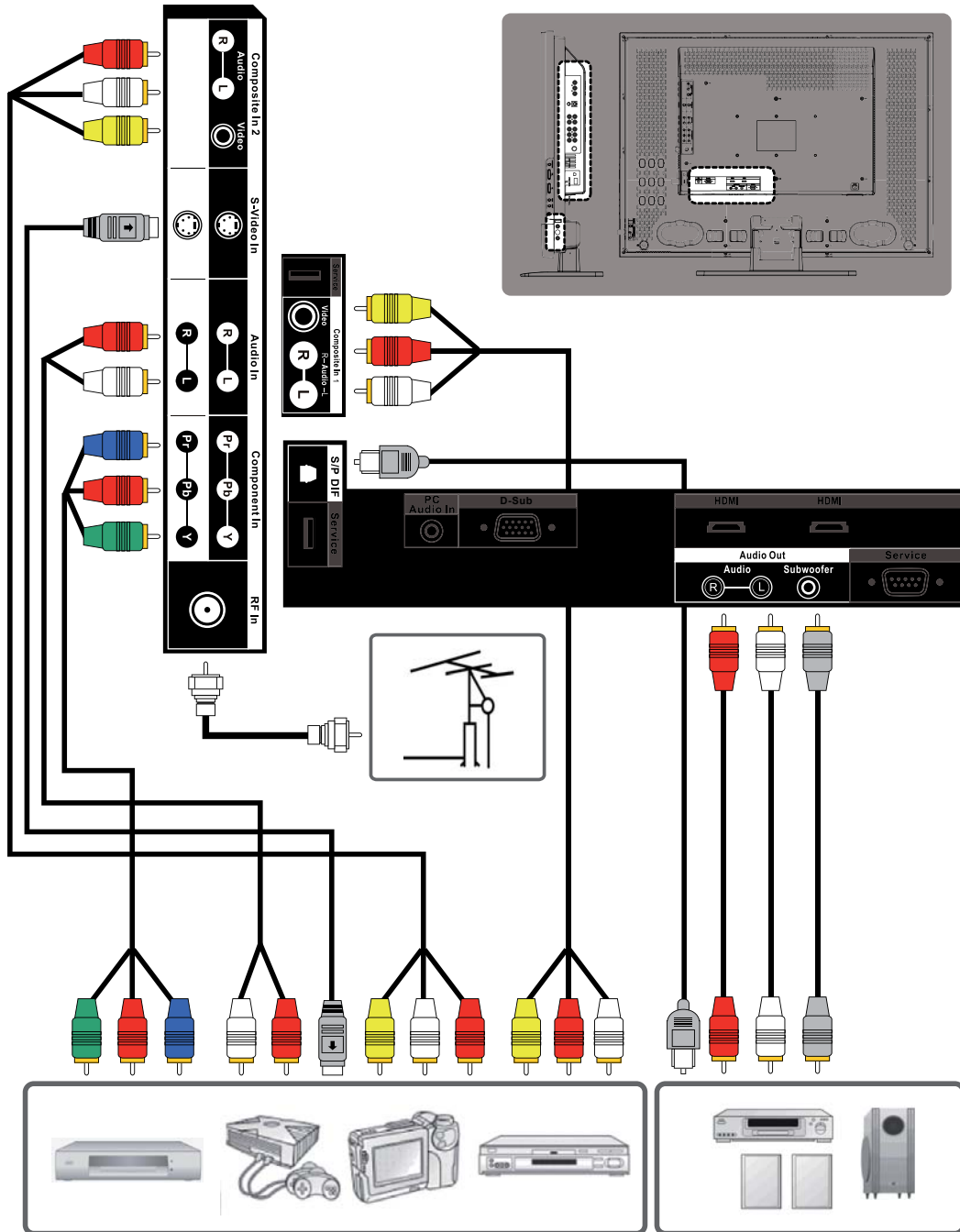


NOTE 1 : To receive video, connect a VGA cable between D-Sub connector on the TV and the D-Sub output connector on your PC.

NOTE 2 : To receive sound, connect a PC audio cable between PC Audio In jack on the TV and the Audio Out jack of the sound card on your PC.

NOTE 3 : Cables above not included.

Connecting Devices via Other Cables



NOTE 1 : To enjoy best audio and video quality, the best to basic level of video quality is Component, S-video, Composite (A/V) and RF.

NOTE 2 : When using Composite or S-Video cables, make sure you use an audio cable for sound.

NOTE 3 : Cables not included.

CONTROLS & ADJUSTMENTS

General Adjustments

Turning the LCD TV On and Off

Turn On

Connect the Power Cord into the AC IN located in the back of the display and the other end to the power outlet on the wall. Press the **Power** button on the remote control or right side of the TV to turn the TV on. Please refer to page 16 to adjust Power Consumption settings.

The power status light found in the lower right corner of the TV indicates the following :

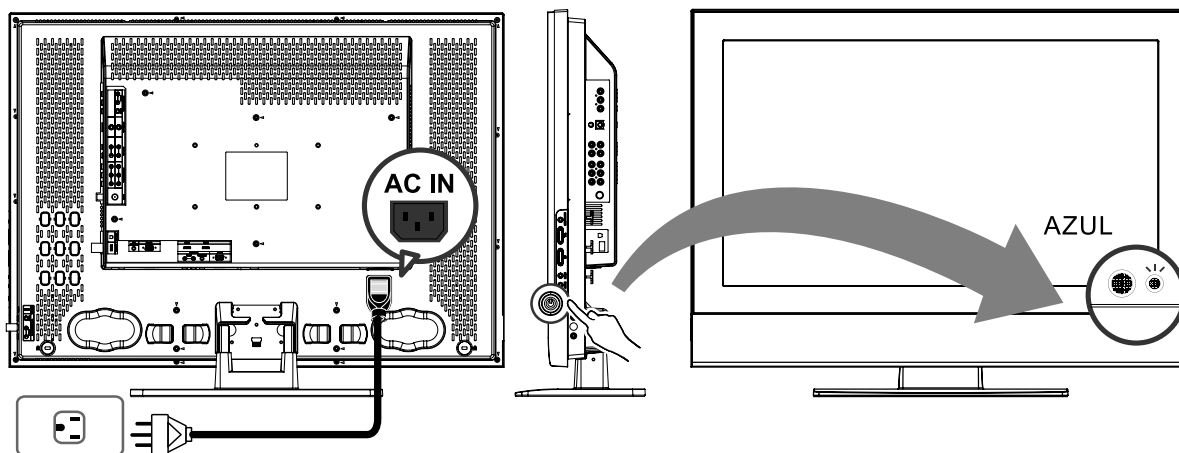
BLUE LIGHT — power on

PURPLE LIGHT — Standby, power saving
(only available in PC mode)

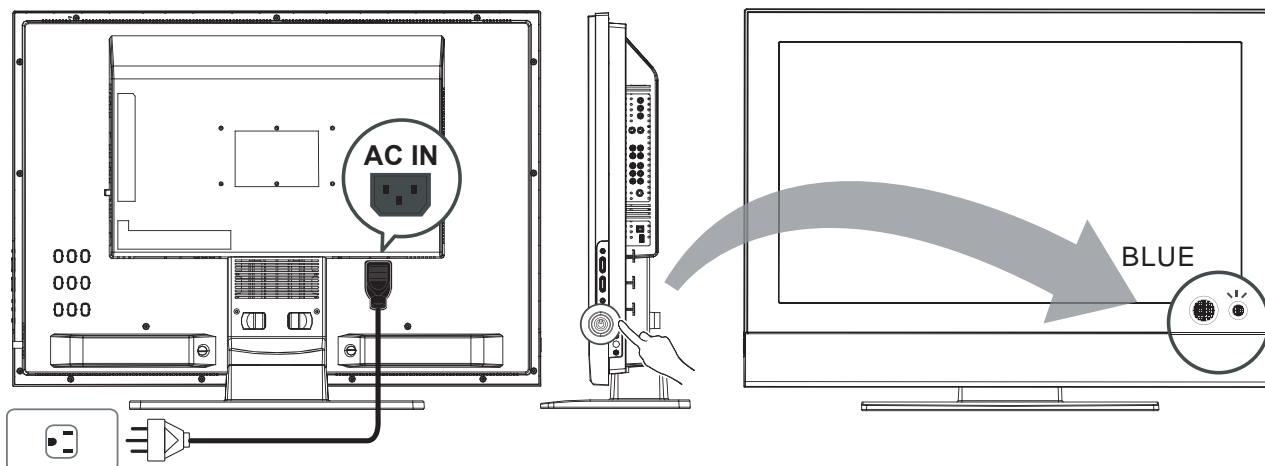
RED LIGHT — power off



32" TVs

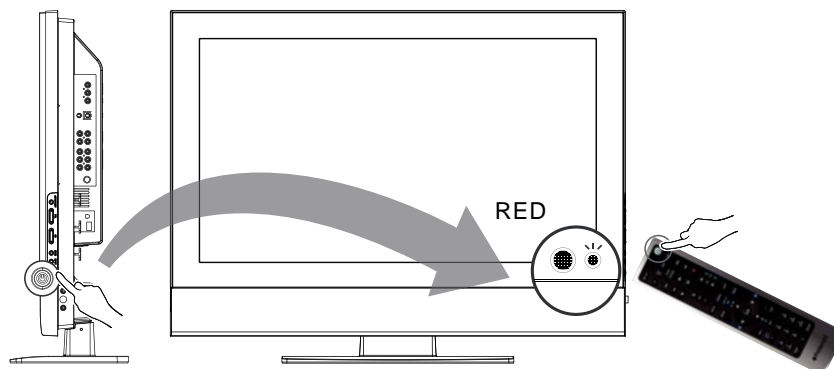


37" & 42" TVs



Turn Off

Press the **power** button on the remote control or right side of the TV to turn the TV off.



NOTE : No Signal appears if there is no input source. The TV will power off automatically if an input source is not selected.

Power Consumption

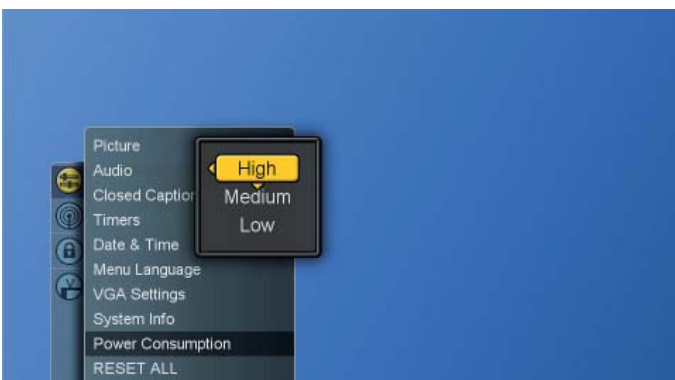
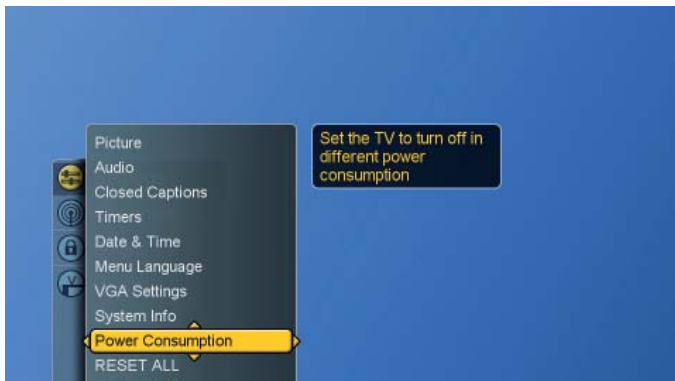
Power Consumption is a power management technique which helps to set up the POWER OFF status for the LCD TV set. There are three modes: Low/Medium/High

Low : The power consumption is no more than 5W in the POWER OFF status. It takes about 12-15 seconds to turn on the LCD TV set.

Medium : The power consumption within the first hour is less than 35W and you can turn on TV around 3 seconds. After one hour, the power consumption is switched to around 5W and it takes 12-15 seconds to turn on the LCD TV.

High : The LCD TV set can be turned immediately and the maximum power consumption would be less than 35W.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶ / ▼** buttons to select **Power Consumption**.
4. Press **▶** button to display the sub-menu.
5. Press **▲▼** and **OK** buttons to select Low, Medium or High.
6. Press **EXIT** button to exit all menu or press **◀** button to return to the previous screen.



Initial Setup

When the system powers on for the first time, the initial auto installation is enabled.

Language Selection

1. Press the **Power** button on the remote control. A welcome message is displayed. Use the **▲▼** buttons to select the language you prefer, and press **OK** button to continue.



Time Zone Selection

2. Press the **▲▼** buttons to select on your Time Zone, and press **OK** button to continue.



NOTE : It takes around 5 to 30 minutes to finish the Initial Setup process. The time taken for Initial Setup is varied according to the number of scanned channels.

Daylight Saving

3. Press ▲▼ buttons to set the Daylight Savings, and press **OK** button to continue.



Input Source Selection

4. Press ▲▼ buttons to select the source for your TV signal, and press **OK** button to start scanning. If the user selects Antenna, the next setup wizard is presented.



When “Cable” Source is selected, please toggle Automatic, STD, IRC, or HRC. To have all channels completely scanned, please select STD, IRC or HRC.



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



6. Press **OK** and start to watch TV.



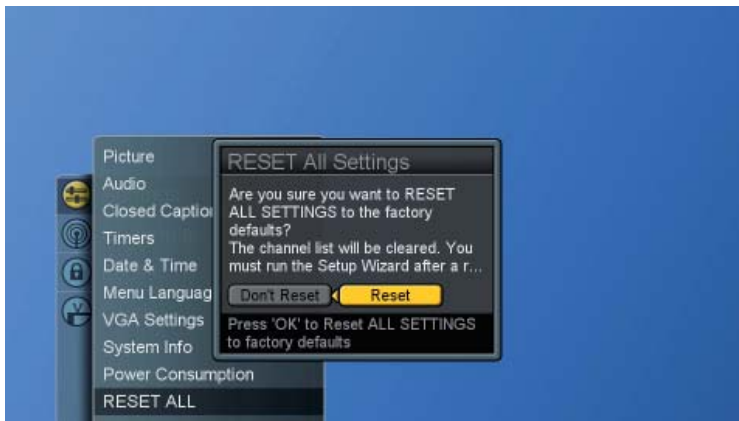
Reset the features

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

Following Reset, the Setup Wizard resumes to factory default mode.

If a PIN is set, the PIN entry dialog is displayed before the “Reset All” Settings dialog box, even if Locks are temporarily off. If no PIN is set, the dialog is displayed immediately.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select Settings and press **▶ / ▼** buttons to access the **RESET ALL** screen.
3. Press the **▶** to select “Reset” and **OK** buttons to reset all settings.



Changing Channels

Using the Channel buttons

When you press the **CH▲/▼** buttons, the TV changes channels in sequence. You will see all the channels that the TV has memorized. You will not see channels that were not memorized.

Using the Last button to select the previous channel

To quickly switch between two channels, tune to one channel, then use the number button to select the second channel. Press the **LAST** button to quickly alternate between them.



Adjusting the Volume

Using Volume Control

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

Using Mute

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

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



Switching Source

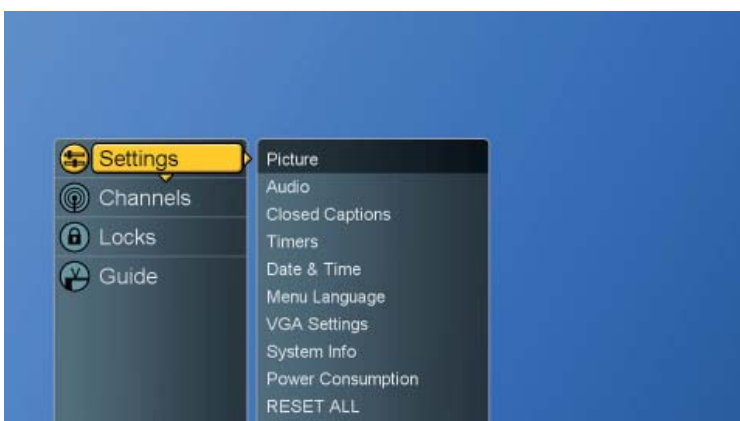
1. Refer to page 10~13 and connect external devices.
2. Press **INPUT** button repeatedly to choose the desired source.



Viewing the Menus and On-Screen Displays

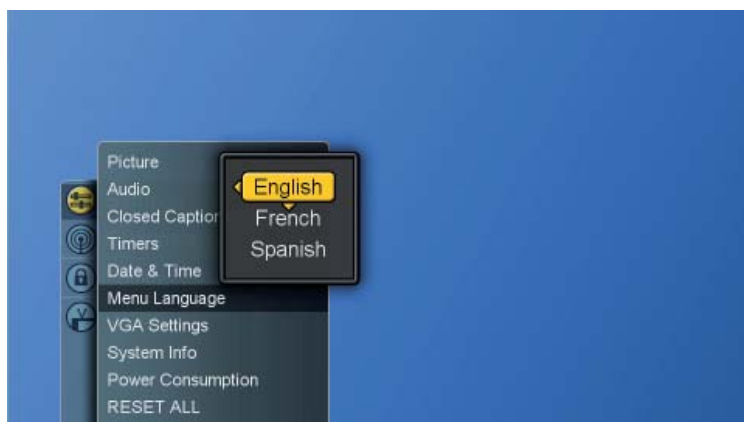
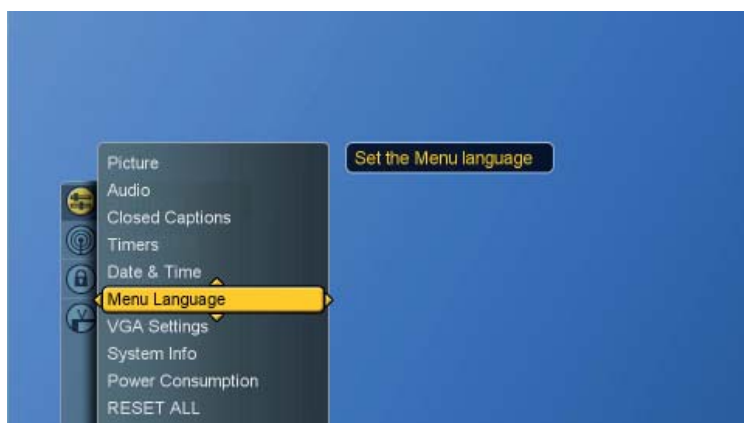
You can use the control buttons on the right side of the TV or use the remote control to viewing the menus.

1. With the power on, press the **MENU** button.
2. The main menu appears on the screen
3. Press the **▲▼◀▶** buttons to access the sub-menus and make adjustments.
4. Press **EXIT** button to exit all menu or press **MENU** button to return to the main menu.



Switching Language Modes

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶ / ▼** buttons to select **Menu Language**.
4. Press **▶** button to display the sub-menu.
5. Press **▲▼** and **OK** buttons to select the language.
6. Press **EXIT** button to exit all menu or press **◀** button to return to the previous screen.

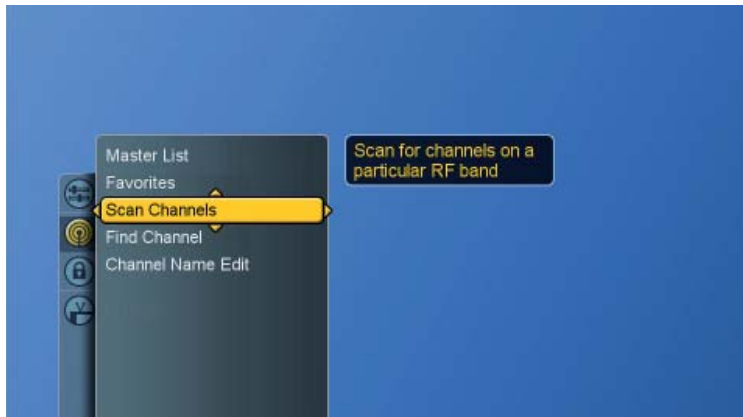


Channel Control

If you did not perform a channel scan during the “Initial Setup”, please follow the instructions below:

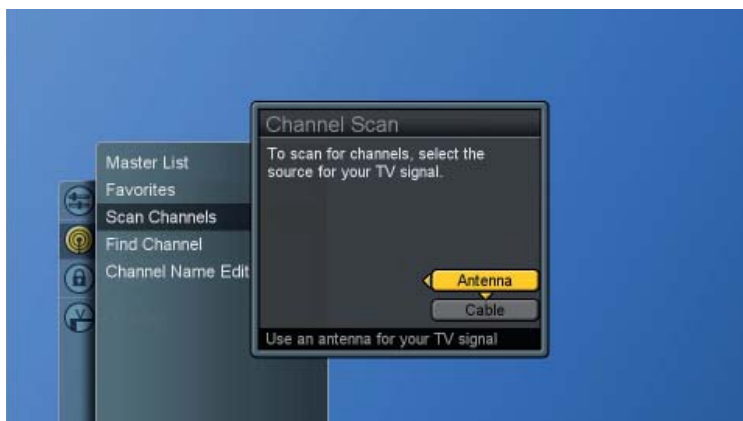
Memorizing Channels

1. Press the **MENU** button to display the main menu.
2. Press the ▲▼ buttons to select **Channels**.
3. Press ► / ▼ buttons to select **Scan Channels**.



4. Press ► button again to display the menu and then press ▲▼ buttons to select the source for your signal.

If users select Cable, the system will detect and select which cable (i.e. STD, IRC or HRC) is used automatically.



5. Press **OK** button to display Scan screen.



6. Press **OK** button again to start **Channel Scan**.



7. Once the scan is completed, the Channel List will show on the screen and the program of initially scanned channel is appeared on the screen.

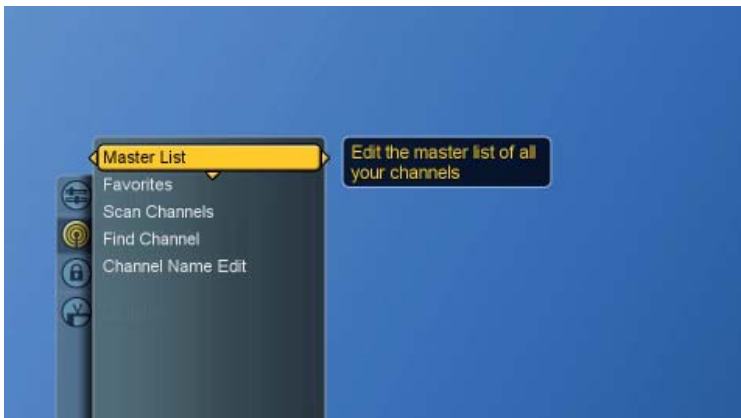


8. Press **OK** button to finish.

NOTE : If you select **Stop Scan**, the scan process will be stopped immediately and the scanned channels will be stored in the non-volatile memory.

Editing the Channel List

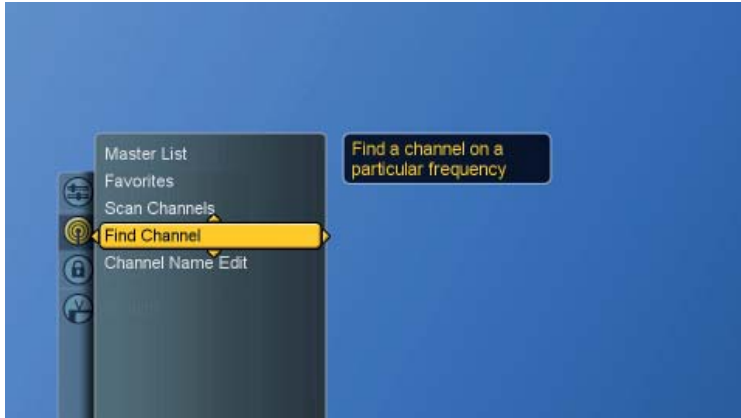
1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Channels**.
3. Press **▶** button to select **Master List**.
4. Press **▶** button again to display the menu and start to edit the list.
5. Press **▲▼◀▶** and **OK** buttons to add or remove channels.
6. Press **EXIT** button to exit all menu or press **OK** to finish.



NOTE : Select **“Mark All”** in the **“Master Channel List”** to enable all channels in the list. **“Digital Only”** enables just the digital channels. **“Unmark All”** disables all channels in the list.

Finding Channels Directly

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Channels**.
3. Press **▶ / ▼** buttons to select **Find Channel**.
4. Press **▶** button again to display the menu.



5. Use **0-9** buttons to enter the channel numbers and press **OK** to scan the entered channel.
6. Press **▼** and **OK** buttons to select **DONE** and finish it.

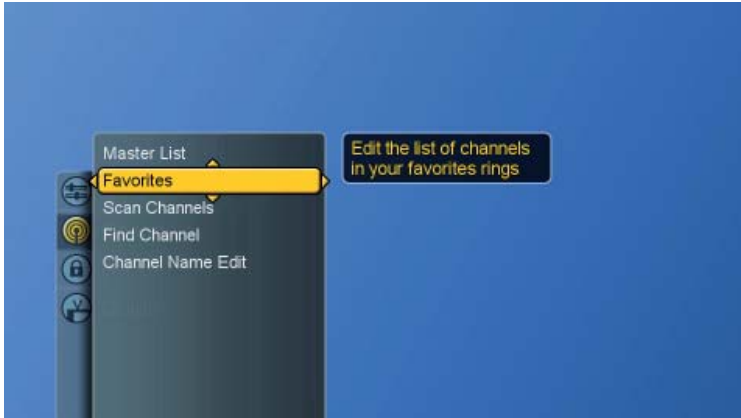


NOTE 1 : This TV can automatically tune in scanned and found channels. If your intended channel is not found, the TV will tune to the previous last found channel.

NOTE 2 : Channels are automatically added to the master list when found.

Setting – Up your Favorite Channels

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Channels**.
3. Press **▶ / ▼** buttons to select **Favorites**
4. Press **▶** button again to display the menu and start to edit the favorite channels.

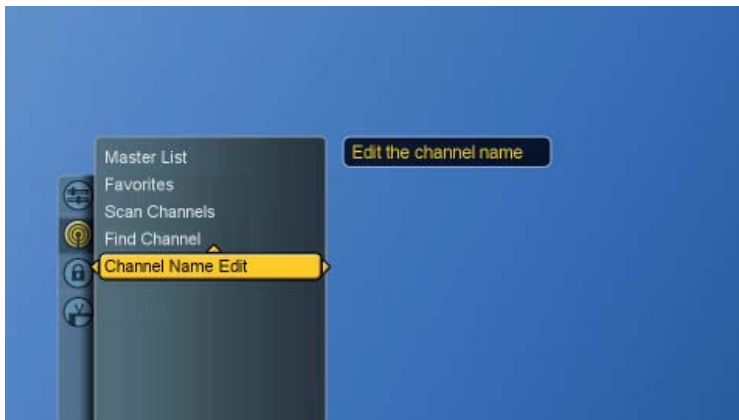


5. Press **▲▼** and **OK** buttons to choose which favorite list to edit. (The system supports 3 favorite channel lists and each list will store 16 channels,)
6. By marking your preferred channel, this channel will be included in the Favorite (Fav is shortened for Favorite) List. To know how to mark your preferred channels, please see “Editing the Channel List” on page 26.



Channel Name Editing

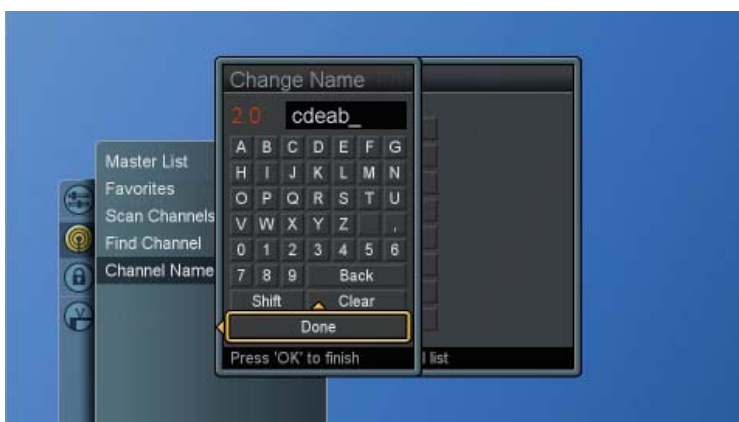
1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Channels**.
3. Press **▶ / ▼** buttons to select **Channel Name Edit**.



4. Press **▶** button again to display the channel list.
5. Press **▲▼** to choose which channel you want to edit and **OK** to confirm.



6. Press the **▲▼◀▶** buttons to enter the name.
7. Move to "**Done**" and press **OK** button to finish.



Picture Control

Adjusting the Picture Setting

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶** button to access **Picture** and **Picture Settings**.



4. Press **▶** button again to display the menu “Picture Settings: TV”. A user can make adjustment, when in “Custom” mode.
5. Press **▲▼** and **OK** buttons to choose the desired item.
6. Press **◀▶** buttons to make adjustments and press **▲▼** buttons to choose other items.

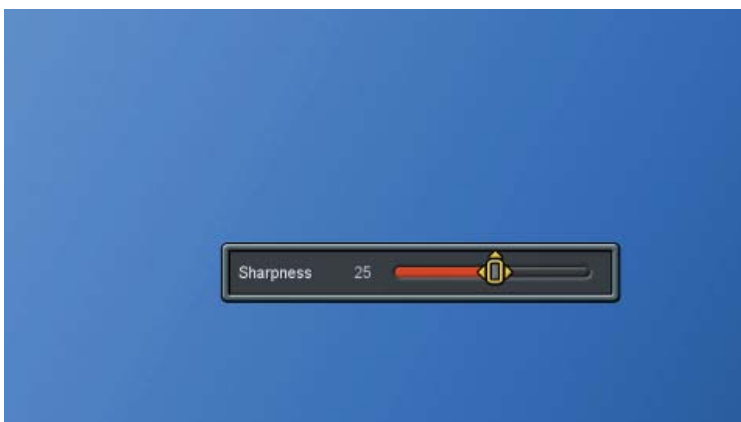
Brightness : Increase or decrease picture brightness

Contrast : Increase and decrease picture contrast

Saturation : Deepen and lighten picture color

Hue : Modify the tint (flesh tone redness or greenness) of color

Sharpness : Soften and sharpen image



7. Press **OK** button to return to the previous screen or press **EXIT** button to exit all menu.

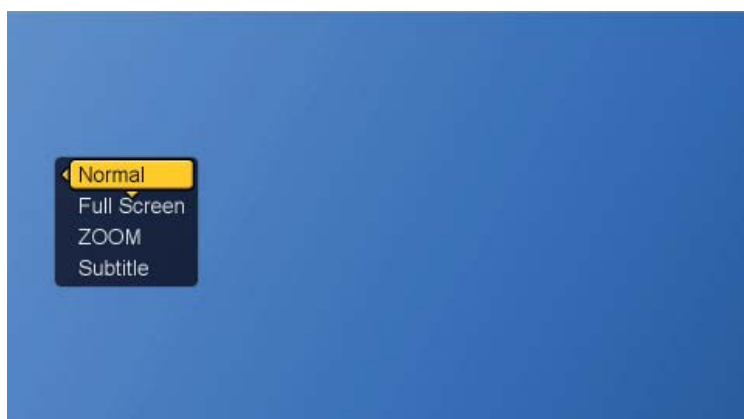
NOTE : Settings for **Standard, Vivid, Movie, Sports** are pre-configured.

Adjusting the TV Screen

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶** button to access **Picture** sub-menu.
4. Press **▶/▼** button to select **Aspect Ratio**.



5. Press **▶** button again to display the menu.



6. Press **▲▼** buttons to choose the different modes and press **OK** to confirm.

Normal : displays the image exactly as broadcast .

Full Screen: stretches the image to fit the screen
(None of the image is cut off, but the image may be distorted.)

Zoom : scales the image larger, and will cut off part of the image

Subtitle : shift the image up to show the subtitle.

Adjusting the Color Temperature

Adjust the white balance of the picture.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶** button to access **Picture** sub-menu.
4. Press **▶/▼** buttons to select **Color Temperature** and press **▶** button on display the menu.
5. Press **▲▼** and **OK** buttons to choose Cool, Neutral or Warm.

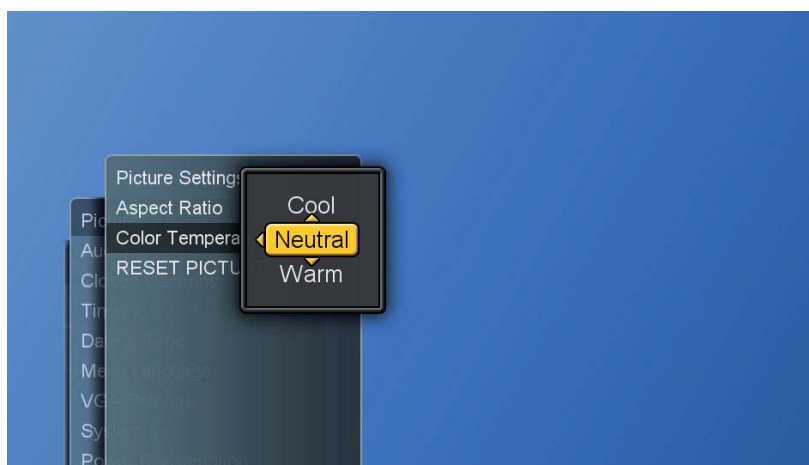
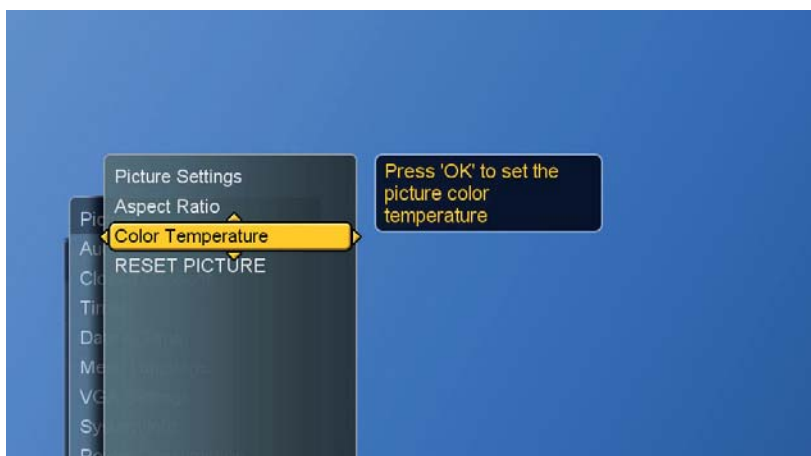


Cool : a bluish white

Neutral : a normal white

Warm : a reddish white

6. Press **◀** button to return to the previous screen or press **EXIT** button to exit all menu.



User can reset the picture settings back to factory settings.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**
3. Press **▶** button to access **Picture** sub-menu.
4. Press **▶/▼** buttons to select **RESET PICTURE** and press **▶** button to display the menu.
5. Press **▶** and **OK** buttons to reset picture settings.
6. Press **◀** button to return to the previous screen or press **Exit** button to exit all menu.



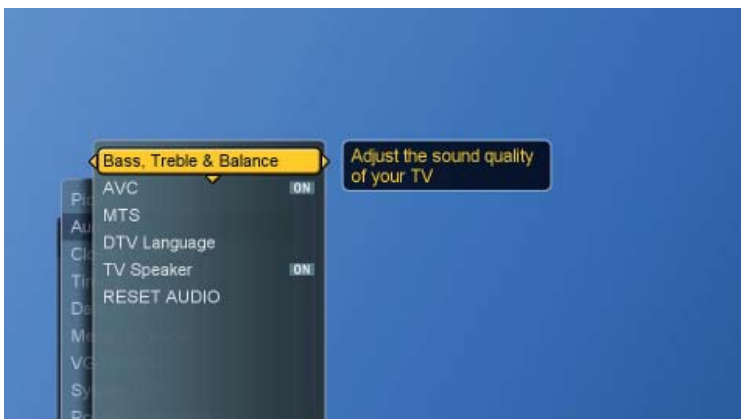
Sound Control

Adjusting the Sound Quality

1. Press the **MENU** button to display the main menu.
2. Press the ▲▼ buttons to select **Settings**.
3. Press ► / ▼ buttons to select **Audio**.



4. Press ► button to select **Bass, Treble & Balance** and press ► button again to display the menu.



5. Press ▲▼ buttons to choose the desired item and press ◀ ▶ buttons to make adjustments.
6. Press **OK** button to finish or **EXIT** button to exit all menu.

Bass : Adjust low tone of sound.

Treble : Adjust high tone of sound.

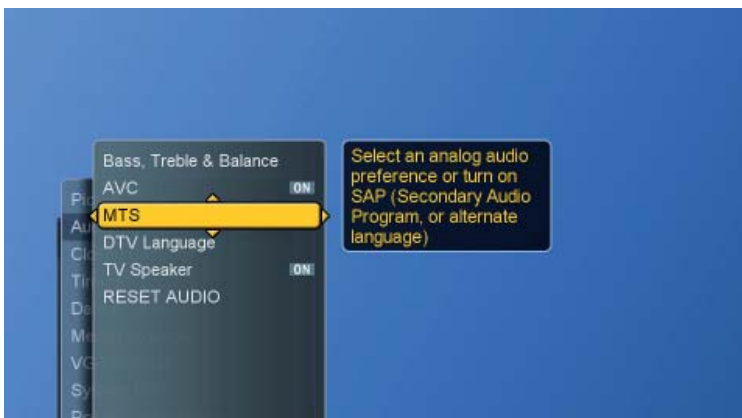
Balance : Adjust the volume balance between the left and right speakers.



Choosing a Multi-Channel Television Sound in Analog TV

Depending on the particular program being broadcast, you can listen to Stereo, Mono or a Secondary Audio Program (SAP). (The shown language in SAP audio is according to offered broadcast language.)

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶ / ▼** buttons to select **Audio**.
4. Press **▶ / ▼** buttons to select **MTS** and press **▶** button to display the menu.
5. Press **▲▼** and **OK** buttons to choose the desired item.
6. Press **◀** button to return to the previous screen or press **EXIT** button to exit all menu.



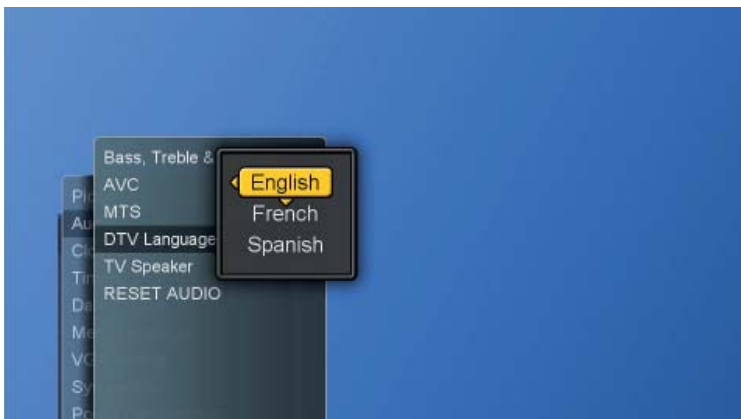


Choosing a Multi-Track Sound (MTS) in Digital TV

Preferred Language

The digital -TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages).

1. Press the **MENU** button to display the main menu.
2. Press the ▲▼ buttons to select **Settings**.
3. Press ► / ▼ buttons to select **Audio**.
4. Press ► / ▼ buttons to select **DTV Language** and press ► button again to display the menu.
5. Press ▲▼ and **OK** buttons to choose the desired item.
6. Press ◀ button to return to the previous screen or press **EXIT** button to exit all menu.



Other Sound Settings

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶ / ▼** buttons to select **Audio**.
4. Press **▶ / ▼** button to select other items.
5. Press **OK** button to switch between “ON” and “OFF”.



Automatic Voice Control (AVC)

[ON]: AVC can avoid sudden increases or decreases of volume like commercials.

[OFF]: Under special circumstances, such as opera or symphony, volume can be performed in accordance with the original sound level.

TV Speaker

Turn the **TV Speaker** on or off. (Use if your TV is connected to home theater or stereo.)

6. User can reset the audio settings back to factory settings.

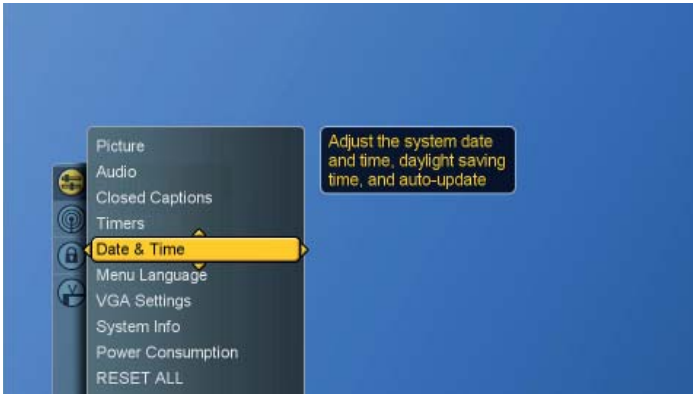


Time Setting

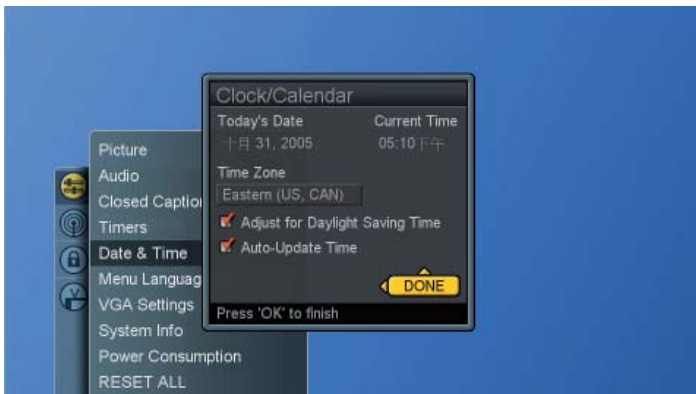
Setting the Clock

Setting the clock is necessary in order to use the various timer features of the TV.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶ / ▼** buttons to select **Date & Time**.



4. Press **▶** button again to display the menu.
5. Press **▲▼◀▶** and **OK** buttons to move to Today's Date, Current Time and Time Zone.
6. Press **OK** button to select one item and use **▲▼◀▶** buttons to make the settings.
7. Press **OK** button to return to the previous screen or press **EXIT** button to exit all menu.



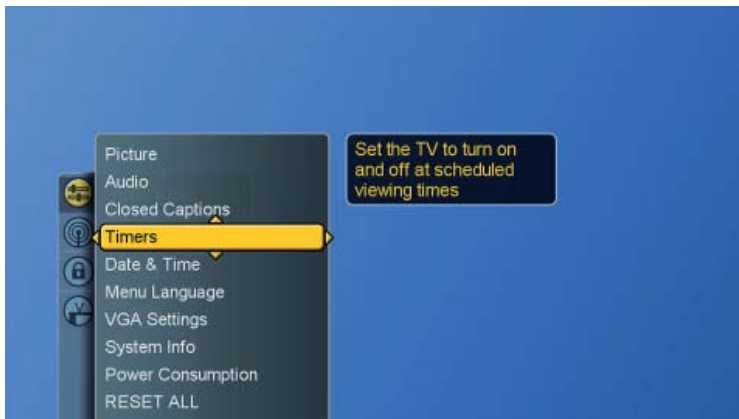
NOTE 1 : The current time will appear when you press the INFO button.

NOTE 2 : When selecting "Auto-Update Time," the time is set according to the broadcast. When Auto-Update is on, all other time adjustments except for "Adjust for Daylight Savings Time" and Time Zone are "grayed out" and cannot be modified by the user.

Setting the On / Off Timer

The system supports two timers to be used to turn on and off at scheduled viewing times.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶ / ▼** buttons to select **Timers**.
4. Press **▶** button to display the menu.



5. Press the **▲▼◀▶** buttons to move to Choose Timer, Days, Start Time and Duration.
6. Press **OK** button to select the desired days for the timer to execute by checking or un-checking the check boxes and make the settings.
7. Press **OK** button to return to the previous screen or press **EXIT** button to exit all menu.



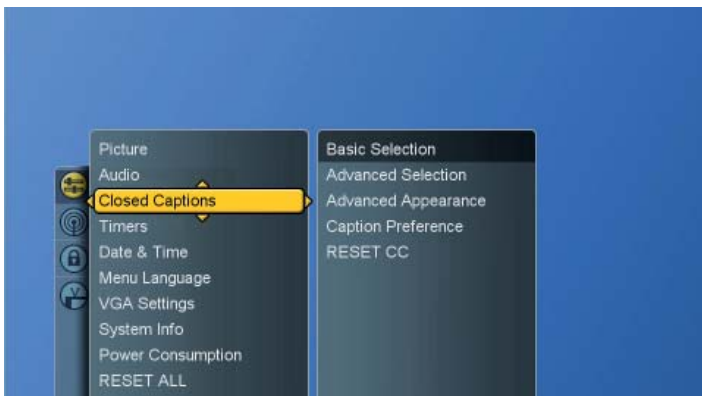
NOTE 1 : This feature is only available if the clock in the system has been set.

NOTE 2 : Timer 1 takes precedence over Timer 2.

Viewing Closed Captions

This LCD TV has the ability to decode and display closed caption content if supported by the program. These captions are usually used for the hearing impaired or for foreign language translations.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶ / ▼** buttons to select **Closed Captions**.



4. Press **▶** and **▲▼** buttons to select Closed Caption Service.
5. Press **▶** button to display the menu.

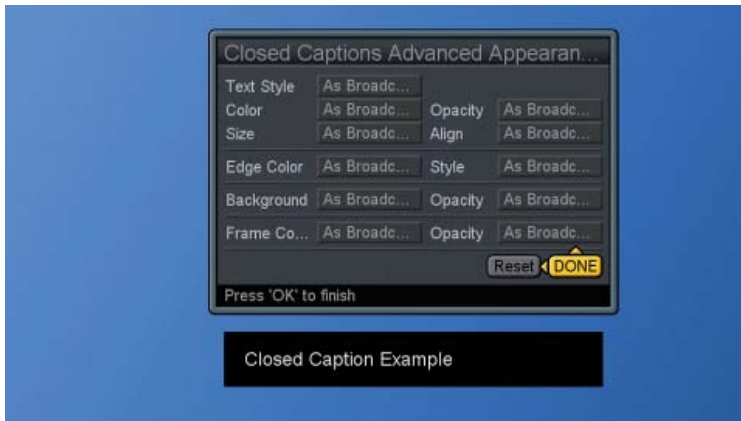
Basic Selection : the preferred basic selection can take a value in the range CC1-CC4 and T1-T4.

Advanced Selection : the preferred advanced selection can take a value in the range CS1-CS6.

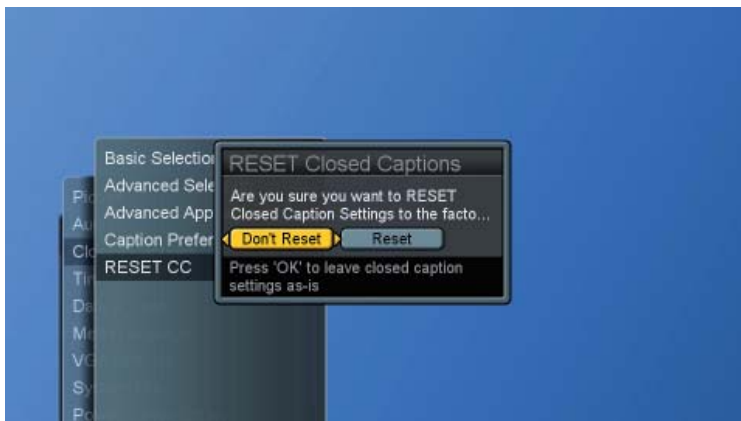
Advanced Appearance: allow for controlling

- Window background color
- Window background opacity
- Font size
- Font style
- Font foreground color
- Font foreground opacity
- Font background color
- Font background opacity
- Font edge type
- Font edge color

Caption Preference : applies to digital channels only, can either be basic, advanced or auto.



6. User can reset Closed Captioning back to factory settings.



7. Press **EXIT** button to exit all menu.

NOTE : The Caption feature does not work with Component (expect for 480i) Video / PC / HDMI input source.

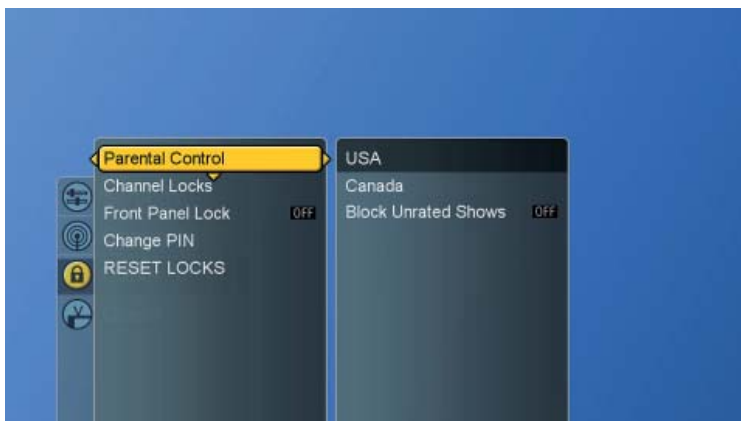
Parental Control and Locks

Setting Ratings and Channel Locks

Parental Control

Parental Control allows a user to block viewing of programs according to their content and rating levels.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Locks** and press **▶** button to access the PIN Entry menu.
3. Enter your 4-digit PIN to access the Locks sub-menu.



NOTE : The factory default PIN code is " 0000 " .

5. Press **▶** and **▲▼** buttons to select **USA**, **Canada** or **Block Unrated Shows**.

* USA custom ratings menu include TV and Movie Ratings.



TV Rating

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



Movie Rating

Rating Code	Description
G	All children and general audience
PG	Parental guidance suggested
PG-13	Parental guidance for children under 13
R	Restricted viewing, parental guidance is suggested for children under 17
NC-17	No one under 17 or under allowed
X	X Rated

* Canada custom ratings menu include English and French Ratings.



French Rating

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



English Rating

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

* Block Unrated Shows will warn the user that blocking unrated TV programs will not allow them to view programs that do not have a rating.



6. Press **EXIT** button to exit all menu.

Channel Locks

The user may navigate through the channel list and toggle lock on or off for a specific channel by pressing the **OK** button. There are also choices that will Mark All channels and Unmark All.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Locks** and press **▶** buttons to access the PIN Entry menu.
3. Enter your 4-digit PIN to access the Locks sub-menu.
4. Press **▲▼** buttons to select **Channel Locks**.



5. Press ► button to display the menu.
6. Press ▲▼◀▶ and **OK** buttons to select lock or unlock the channel.
7. Press **EXIT** button to exit all menu.

NOTE 1 : Note that changes to Channel Locks are effective immediately unless the TV is temporarily unlocked due to entering a PIN when a Ratings or Channel Lock is encountered.

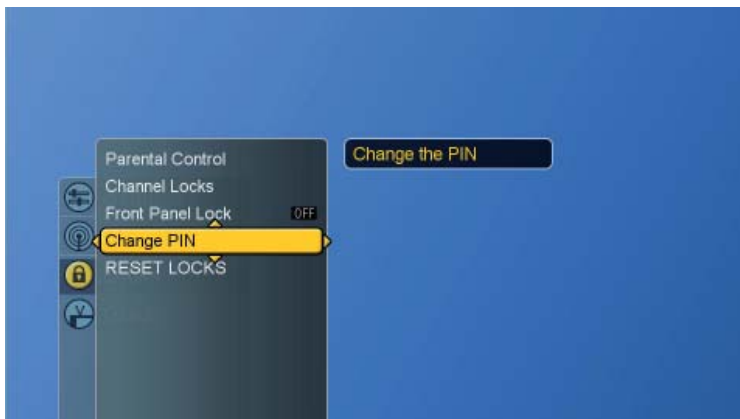
NOTE 2 : If a new channel is encountered during channel change or added by using the Find Channel feature, its default state is unlocked.

NOTE 3 : Press "0000," if a user forgets the PIN. Please remember your password and preserve this manual well.

Changing Your Personal ID Number (PIN)

Allows the user to set a new PIN. The PIN is a four-digit numerical PIN masked from display. The user must enter the new PIN, and will then be prompted a second time for confirmation.

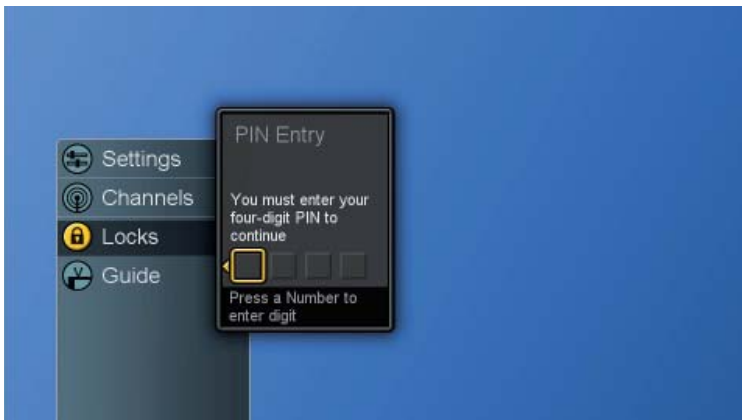
1. Press the **MENU** button to display the main menu .
2. Press the ▲▼ buttons to select **Locks** and press ► buttons to access the PIN Entry menu.
3. Enter your 4-digit PIN to access the Locks sub-menu.
4. Press ▲▼ buttons to select Change PIN.



5. Press ► button to display the **Change PIN** menu.
6. Enter the old 4-digit PIN and enter your new 4-digit PIN.
7. Enter the 4-digit PIN again to confirm, the Change PIN menu will disappear when it finished.



8. When a user wants to access the Locks menu next time, system will request to enter the PIN.



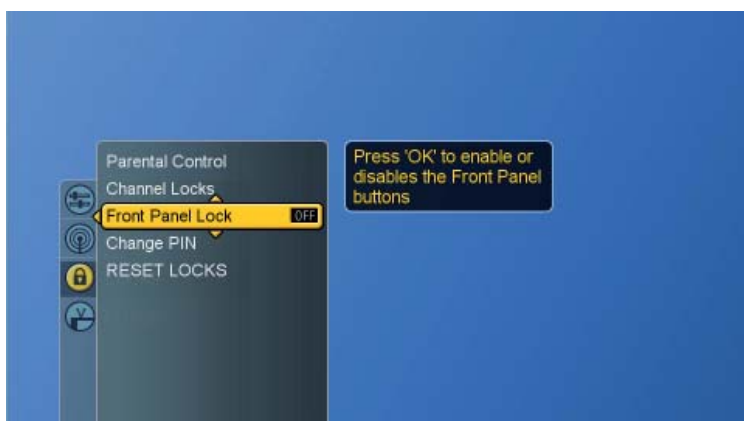
9. If the PIN number is incorrect, the menu will be appeared as below.



Child Lock

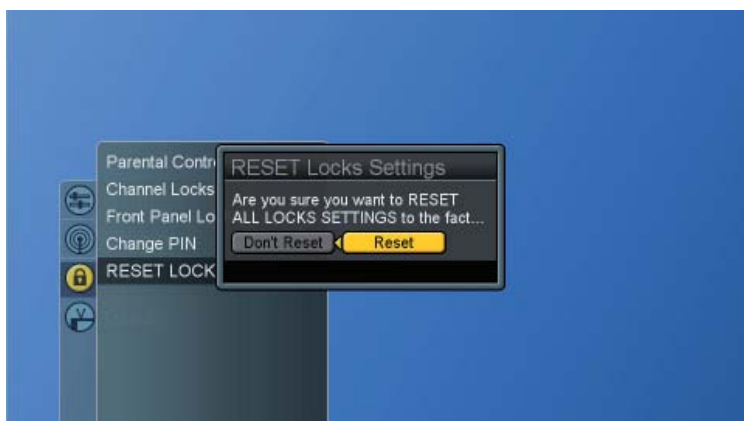
A user can disable the Front Panel buttons by using the Front Panel Lock function.

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Locks** and press **▶** buttons to access the PIN Entry menu.
3. Enter your 4-digit PIN to access the **Locks** sub-menu.
4. Press **▲▼** buttons to select **Front Panel Lock**.
5. Press **OK** button to turn on or off.



Reset the Locks Settings

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Locks** and press **▶** buttons to access the PIN Entry menu.
3. Enter your 4-digit PIN to access the **Locks** sub-menu.
4. Press **▲▼** buttons to select **RESET LOCKS**
5. Press **▶** button to display the menu.
6. Press **◀▶** buttons to reset the settings.

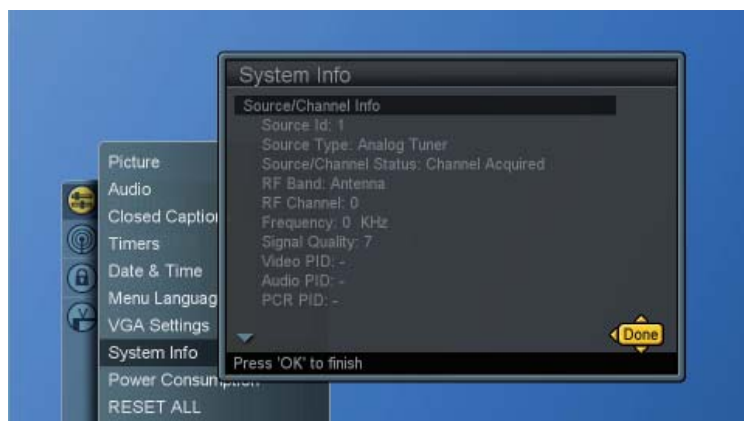


NOTE : All lock settings are reset, except the PIN. To reset the PIN, please enter Reset All in Settings to resume settings back to the factory mode.

System Info

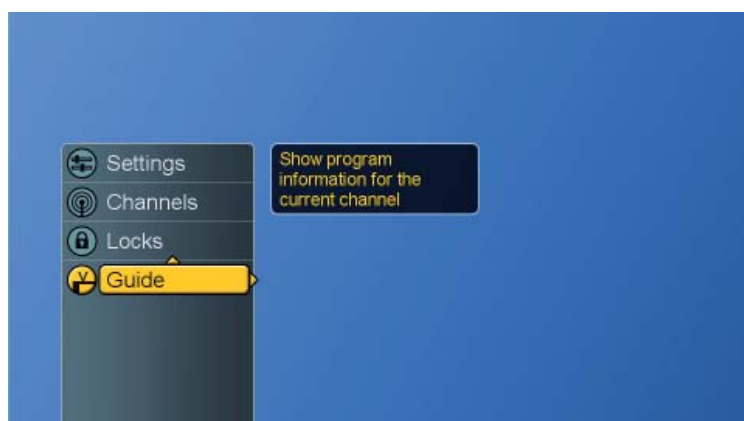
Display system info.

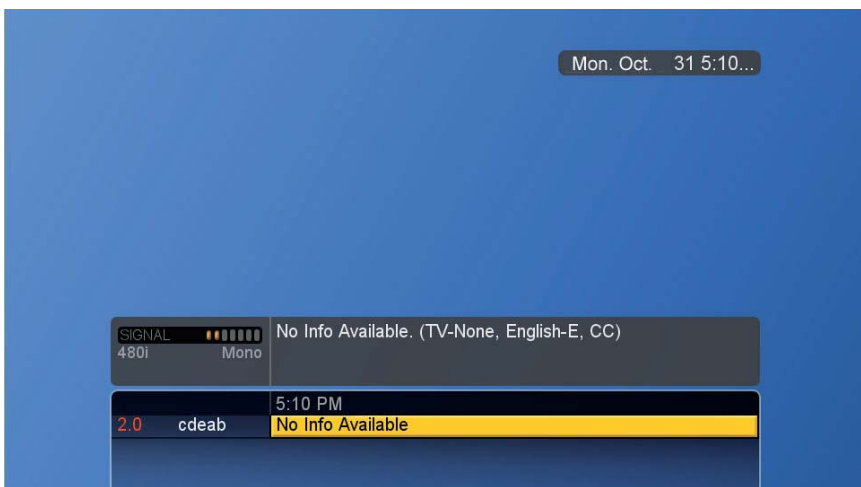
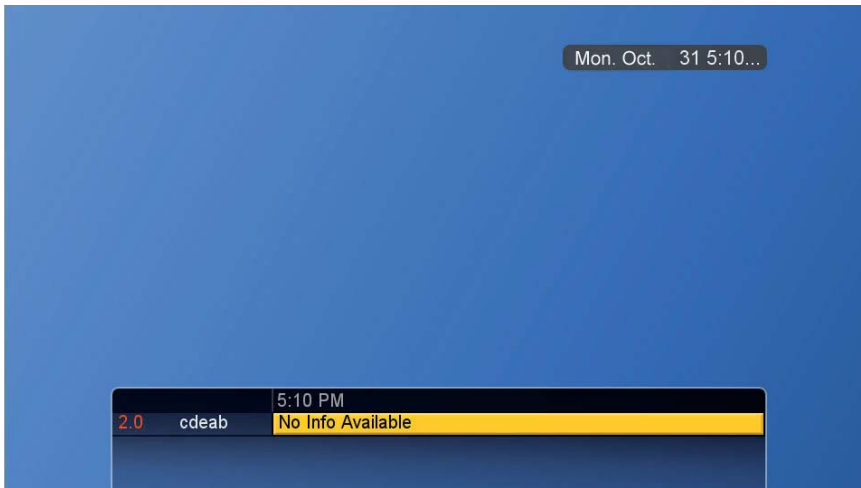
1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Settings**.
3. Press **▶ / ▼** buttons to select **System Info**.
4. Press **▶** button to show the info.
5. Press **EXIT** button to exit all menu.



Showing Program Info Data

1. Press the **MENU** button to display the main menu.
2. Press the **▲▼** buttons to select **Guide**.
3. Press **▶** button again to show the info.
4. Press **OK** to show more information.
5. Press **EXIT** button to exit all menu.



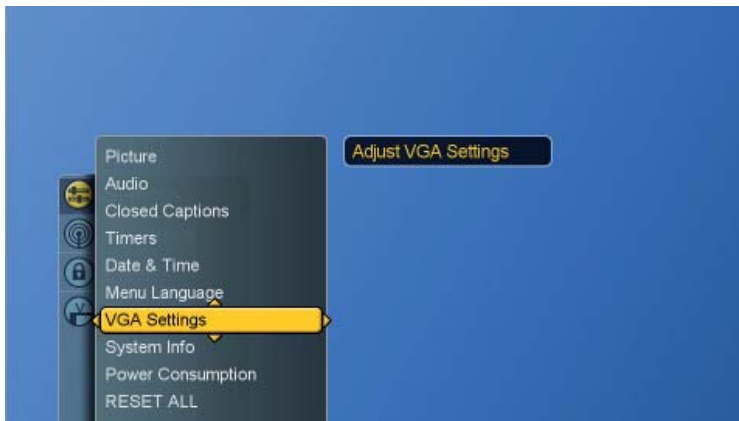


NOTE : Press “Guide” on the remote control to have a quick access to Info data. Repeatedly press “Guide” to show cyclic info- (a)Title Display only (b) Title and Description Display (c) Cleared

PC mode Adjustments

The “VGA Settings” are to allow the user to control certain VGA specific features.

1. Press **INPUT** button to select PC source.(see page 22)
2. Press the **Menu** button to display the main menu.
3. Press the ▲▼ buttons to select **Settings**.
4. Press ► / ▼ buttons to select **VGA Settings**.
5. Press ► button to display the menu.



6. Use ▲▼◀▶ buttons to make adjustments.
7. Press **EXIT** button to exit all menu.



DPMS : enables or disables the display power management mode when the VGA is the active input source using a checkbox. When checked, the feature is enabled.

Auto Sync : automatically attempts to determine the ideal horizontal, vertical, and phase adjustments for the current VGA input signal.

PROGRAMMING REMOTE CONTROL

Direct Device Code Setup

This remote control not only provide control of this TV, but also provide control over other external devices, i.e. cable converter, satellite receiver, audio amplifier, VCR and DVD player. Please follow the procedures to use programming function of this remote control:



ENGLISH

Each code in the following pages insists 4 digits from 0 to 9.

Mode → <<SET UP>> (Blink twice) → <Digit> (Blink once) → <Digit> (Blink once) → <Digit> (Blink once) → <Digit> (Blink twice)

STEP 1 Locate the desired device in the Device code list in the following pages.

STEP 2 Select the mode by pressing **DVD**, **CAB/SAT**, or **AUX**.

STEP 3 Depress and hold <<SET UP>> button for a minimum of 3 seconds. When successful, this TV will blink twice after pressing <<SET UP>>.

STEP 4 Enter the 4-digit code for the desired device. This TV will blink once on each digit entry, excluding the last digit. It will blink twice to confirm whether the valid code is programmed.

Mode	Device Assignment	Device Group no.
TV	Locked to this TV (Default)	-----
DVD	Universal VCR, DVD, PVR	2
CAB/SAT	Universal Cable, Satellite, Video Accessory	0
AUX	Universal Tuner, Amplifier, CD, Mini Disc. And Misc. Audio, Home Automation	3

Example: [DVD] → <<SET UP>> (Blink twice) → <1> (Blink once) → <0> (Blink once) → <6> (Blink once) → <1> (Blink twice)

NOTE 1 : Each digit must be entered within 10 seconds, or the Remote Control shall exit the current programming state.

NOTE 2 : Two short LED blinks indicate valid code.

NOTE 3 : A long LED display indicates invalid code sequence. The code should be re-entered.

Searching for a Device Code

If none of the codes listed in Device Codes list is found, you can search for a set of commands that will work. Your Remote will sample all the codes in its system to find one that will allow you to control your device.

As the Remote searches its library, it starts with the most popular device in the category and works through to the end. To cycle through each available device code and sample its functions:



Mode → <<SET UP>> (2 blinks) → [9] [9] [1] (2 blinks) → <Ch▲▼> → <Ch▲▼> → ... <<SET UP>> (2 blinks)

STEP 1 Select the [MODE] by pressing **DVD, CAB/SAT, or AUX.**

STEP 2 Depress and hold **SET UP** button for a minimum of 3 seconds until LED blinks twice.

STEP 3 Enter the code(digit) sequence [9][9][1]. The LED blinks once for every digit entered except for the last digit, where it shall blink twice to confirm that [9][9][1] are entered correctly.

STEP 4 Press **Ch▲▼** repeatedly to cycle through each corresponding function until your device turns off (or on).

STEP 5 Press **SET UP** button will store the new device code and returns to normal operation. The LED blinks twice in confirmation.

Mode	Device Assignment	Device Group no.
TV	Locked to this TV (Default)	-----
DVD	Universal VCR, DVD, PVR	2
CAB/SAT	Universal Cable, Satellite, Video Accessory	0
AUX	Universal Tuner, Amplifier, CD, Mini Disc. And Misc. Audio, Home Automation	3

Example: [VCR] → <<SET UP>> (2 blinks) → [9]→[9]→[1] (2 blinks) → <Ch▲▼> → <Ch▲▼>→... [SET UP] (2 blinks).

Device Codes

The following sections list the available device codes for each device mode button. If there is more than one code listed for device, enter the first one, and try the POWER button. If the device turns on (or off), the code is correct. If it does not, try the next code. Repeat until you find a code that works.

Audio Amplifiers			
Adcom	0577,1100	Modulaire	0395
Aiwa	0406	NEC	0264
Arcam	0269	Naim	0269
Bose	0674	Nakamichi	0321
Carver	0892,0269	Optimus	0013,0300,0823,0395
Cinema Sound	0160	Panasonic	0308,0521
Curtis Mathes	0300	Pass Labs	0269
Denon	0160	Philips	0892,0269
Durabrand	1561	Pioneer	0013,0300,0823
Elan	0647	Polk Audio	0892,0269
GE	0078	RCA	0013,0300,0823
Grundig	0269	RadioShack	0395
Harman/Kardon	0892	Realistic	0013,0395,0220
JVC	0331	Revox	0269
Left Coast	0892	Sansui	0321
Lenoxx	1561	Shure	0264
Linn	0269	Sony	0815,0220,0689
Luxman	0165	Soundesign	0078
Magnavox	0269	Technics	0308,0521
Marantz	0892,0269,0321	Victor	0331
McIntosh	0251	Wards	0013,0078
Micromega	0269	Yamaha	0354,0133

Miscellaneous Audio			
Altec Lansing	1485	Marantz	1491
Cambridge Soundwinks	1530	Motorola	1464
Creative	0872	Netgear	1785
D-Link	1522	Omnifi	1605
Imerge	1491	Onkyo	1789
Integra	1789	SSI	1522
Jerrold	0520	Yamaha	1809,1810

Audio Amp/Tuners

ADC	0531	Fisher	1801,0801,0042,0360,0219,0008
AMC	1077	Garrard	0463,0424
AMW	1563,1615	Gateway	1517,1567
Aiwa	1243,1405,1388,1641,0189,0121, 0405,0158	Go Video	1352,1532
Akai	1255,1512,0244,0346	Grundig	0189
Alco	1390	Harman/Kardon	0110,1304,1306,0891,0189,1289
Amphion Media Works	1563,1615	Hewlet Packard	1181
Anam	1609,1074	Hitachi	1273,1801
Apex	1257	Initial	1426
Apex Digital	1774,1257,1430	Inkel	0491
Acram	1189,1120	Integra	0842,0135,1320,1298
Audiotronic	1189	JBL	0110,1306
Audiovox	1390,1627	JVC	1058,1374,1495,1811,0074
B & K	0820,0840,0701,0702	KLH	1428,1390,1412
BK	0702	Kawasaki	1390
Bose	1229,0639,1253	Kenwood	1313,1570,1569,0186,0042,0239, 0027,0077
Brix	1602	Koss	1497,1366,0424
Cairm	0189	LG	1293
Cambridge Soundworks	1370	LXI	0181
Capetronic	0531,0195	Lasonic	1798
Carver	1189,0189,0121,1289,0042,0360, 0008	Lenox	1437
Casio	0195	Lexicon	1076
Clarinet	0195	Linn	0189
Classic	1352	Liquid Video	1497
Coby	1389	Lloyd's	0195
Compaq	1136	Lloyds	0195
Cirtention	1420	MCS	0039,0346
Curtis Mathes	0014,0080,0039	Magnavox	1189,1269,0531,1266,0189,1514, 0195,0391,1120
Daewoo	1250	Marantz	1189,1269,0891,0189,1289,1120, 0039
Dell	1383	McIntosh	1289
Delphi	1414	Micromega	1189,0189
Denon	1142,1360,1306,0121,0004	Misubishi	1393
Emerson	0531,0195,0124	Modulaire	0195

Audio Amp/Tuners

Myrad	1189	Samsung	1295,1500
NAD	0320	Sansui	1189,0189,0346
Nakamichi	1313,0097,1555,0347	Sanyo	1801,1469,1251,0801,0360,0219
New Castle	0502	Scott	0322,0163
Nikko	0322	Sears	0195,0424
Nikkodo	0322	Sharp	0186,1286
Norcent	1389	Sharper Image	1556
Nova	1389	Sherwood	1077,1653,0491,0502,1423
Onkyo	0842,0135,1320,1298,1531	Shinsonic	1426
Optimus	1023,0531,0014,1074,0670,0121, 0186,0080,0195,0738,0801,0042, 0181,0502,0219,0158,0074,0163, 0177	Siemens	0424
Oritron	1497,1366	Sirius	1811,1602,1627
Outlaw Audio	0391	Sonic Blue	1869,1532,1383
Panasonic	1308,1518,1548,1288,1316,1763,1 764,1633,0309,0367,0039	Sony	1058,1441,1258,1759,1758,1622, 1858,1658,1558,1406,0405,0474, 1349,1442,0158
Penney	0195	Sounddesign	0670
Penneys	0195,0039	Steresphonics	1023
Philips	1189,1269,0891,1266,0189,0391, 1120	Sunfire	1313
Pioneer	1023,1384,0531,0014,0150,0630, 0080,0801,0244,0346	Teac	1267,1390,1074,1528,0463,0163
Polaroid	1508	Technics	1308,1518,1633,0309,0039
Polk Audio	0189,1289,1414	Thorens	1189
Proscan	1254,0054	Thoshiba	0842,0135,0080
Quasar	0039	Venturer	1390
RCA	1023,1609,1254,0531,1511,1390, 1074,0080,0360,0054,1154,0346	Victor	0074
RadioShack	1609,0181	Waitec	1352
Realistic	1609,0121,0186,0195,0042,0181, 0158,0163,0177	Wards	0014,0189,0080,0042,0054,0158
Regent	1437	XM	1406,1414
Revox	0189	Yamaha	1023,0176,1176,1375,1331,1276, 0186
Rio	1869,1383	Yorx	0195
Rio Audio	1383	Zenith	1293,0857,0346
Saba	1519		

Cable Converters

A-Mark	0008,0144	Nova Vision	0008
ABC	0237,0003,0008	Novaplex	0008
Accuphase	0003	Pace	0877,1877,0237,0008
Acorn	0237	Panasonic	0000,0008,0144,0107
Action	0237	Paragon	0000,0008,0525
Active	0237	Penneys	0000
Americast	0899	Philips	1305,0317
Archer	0237	Pioneer	0877,1877,0144,0533
BCC	0276	Pulsar	0000
Bell South	0899	Quasar	0000
British Telecom	0003	Regal	0276,0279
Century	0008	Runco	0000
Digeo	1187	Samsung	0003,0144
Director	0476	Scientific Atlanta	0877,1877,0477,0237,0003,0000, 0008
Fosgate	0276	Sony	1006
GE	0144	Sprucer	0144
General Instrument	0476,0810,0276,0003	Starcom	0003
Gibraltar	0003	Supercable	0276
GoldStar	0144	Time Waener cable	1877
Hamlin	0009	Torx	0003
Hitachi	0003,0008,0009	Toshiba	0000
Insight	0476,0810	US Electronics	0276,0003,0008
Jerrold	0476,0810,0276,0003	United Cable	0276,0003
Memorex	0000	Videoway	0000
Mitsubishi	0003	Zenith	0000,0008,0525,0899
Motorola	0476,1376,0810,0276,1187		

Satellite Receivers

AlphaStar	0772	Motorola	0869,0856
Bell ExpressVu	0775	NEC	1270
Chaparral	0216	Netsat	0099
DirecTV	0566,0639,1639,1640,0247,0749, 1142,1442,0724,0819,1856,1108, 1609,0392,1392,1076,0099	Next Level	0869
Dish Network	0775	Optimus	0724
Dish Network System	0775,1775,1005,1505	Panasonic	0701,0247
Dishpro	0775,1775,1005,1505	Paysat	0724
Echostar	0775,1775,1005,1505	Philips	0749,1749,1142,1442,0775,0724, 0722,0819,1076,0099
Expressvu	0775,1775	Pioneer	1142,1442
GE	0566, 0392	Primestar	0869
GOI	0775,1775	Proscan	0566,0392
General Instrument	0869	RCA	0566,1142,1442,0775,0143,0855, 0392,1392,0566,0775,0869
Goodmans	1246	RadioShack	0566,0775,0869
HTS	0775,1775	SKY	0856,0099
Hitachi	1250,0749,0819	Samsung	1142,1442,1276,1108,1609
Houston tracker	0775	Sanyo	1219
Hughes	0749,1749,1142,1442	Sony	0639,1639,1640
Hughes Network Systems	0749,1749,1142,1442	Star Choice	0869
Innova	0099	Star Trak	0772,0869
JVC	0775,1775	Thomson	0566,0392
Jerrold	0869	Tivo	1142,1442
LG	1226	Toshiba	0749,1749,0790,1285,0819
Magnavox	0724,0722	Ultimate TV	1640,1392
McIntosh	0869	Uniden	0724,0722
Memorex	0724	Voom	0869
Mitsubishi	0749	Zenith	0856,1856

TVs

A-Mark	0047,0054	Brockwood	0030,0178
AOC	0180,0030	Brocksonic	0236,0463,0180
Accuscan	0047	CXC	0180
Action	0030	Candle	0030
Admiral	0047,0054,0017,0051,0093,0463, 0180	Capehart	0017,0030,0178,0092
Advent	0761,0783,0815,0817,0842	Capetronic	0030
Adventuri	0000	Carnivale	0030
Agna	0150	Carver	0054
Aiko	0092	Celebrity	0000
Akai	0060,0702,0672,0030,0145,0812	Celera	0765
Albatron	0700,0843	Changhong	0156,0765,0783,0767
Alfide	0672	Cineral	0451,0092
Alleron	0030	Citek	0047
Ambassador	0150	Citizen	0054,0000,0451,0463,0180,0060, 0030,3392,0171
America Action	0180	Clarion	0180
American High	0000,0060	Classic	0030.0092
Amstrad	0171	Colortyme	0047,0054,0017,0060,0030,0178
Amtron	0000,0180	Commercial Solutions	0047,1447
Anam	0180	Conic	0178
Apex	0156,0748,0765	Contec	0180
Apex Digital	0156,0748,0765,0879,0767	Craig	0180,0171
Audinac	0180	Crosley	0054,0000,0180,0030,0171
Audiovox	0451,0180,0092,0623	Crown	0093,0180,0672
Aumark	0060	Crown Mustang	0672
Aventura	0171	Curtis Mathes	0047,0054,0154,0000,0051,0451, 0093,0180,0060,0702,0030,0178, 0145,0166,1147,1347
Baysonic	0180	Daewoo	0451,1661,0672,0178,0092,0623, 1755,1756,0661
Beaumarck	0017,0030,0178	Dayton	0092
Belcor	0030	Daytron	0030,0178,0092
Bell & Howell	0054,0154,0093	Dell	1454
Bell and Howell	0054,0154,0093	Delta	1369
BenQ	1756,1032	Denon	0511,0145
Bradford	0180	Dumont	0017,0180,0178

TVs

Durabrand	0463,0180,0178,0171,1034,1463	Helios	0865
Dwin	0093	Hello Kitty	0451
ESA	0171,0815	Hisense	0748
Eaton	0060	Hitachi	0047,0054,0017,0000,0051,0145,1145
Electroband	0000	Hyundai	0865
Electrograph	1755	Ima	0236,0180,0178
Electrohome	0154,0000,0150,0030,0178	Infinity	0054
Emerald	0178	Inteq	0017,0145
Emerson	0047,0154,0451,0236,0463,0180,0150,0178,0171,0623	JBL	0054
Envision	0030	JCB	0000
Fisher	0054,0154,0000	JIL	0030
Fortress	0093	JVC	0054,0053,0030,1253,0731
Funai	0000,0180,0171	Jensen	0761,0815,0817
Futuretech	0180	Jutan	0030
GE	0047,0000,0051,0451,0060,0030,0178,1147,1347,1447	KEC	0180,0060
Gateway	1755,1756	KLH	0156,0180,0765,0767
Gemini	0047	KTV	0463,0180,0030
Gibraltar	0017,0000,0030	Kamp	0017,0180
Gibraltar	0017,0030	Kawasho	0030
Go Video	0060	Kenwood	0180,0030
GoldStar	0047,0054,0030,0178	Kloss	0030
Goodmans	0360	Kloss Novabeam	0030
Gradiente	0053	Konka	0180
Grundig	0672,0706	LG	0442,0054,1625,0060,0030,0178,0700
Grundy	0180	LXI	0047,0054,0017,0154,0000,0156,0051,0093,0060,0053,0030,0178,0171,0166,1347
Grunpy	0180	Lark	0154
Haier	1034	Lloyds	0236,0180,0030
Hallmark	0236,0180,0178	Loewe	0136
Harley Davidson	0000,0180,0060,0030,0178	Logik	0236,0180
Harman/Kardon	0054	MGA	0150,0030,0178
Harvard	0180	MGN Technologu	0178
Havermy	0093	MTC	0180,0060,0030,0092
Heathkit	0017	Magnasonic	0054,0000,0156,0093,0030,0092

TVs

Magnavox	0047,1454,0054,0154,0000,0051,0250,0180,0060,0030,0092,0171,0706,1254,1755	Petters	1523
Majestic	0017	Penny	0047,0156,0051,0060,0030,0178,1347
Marantz	1454,0054,0030	Pennys	0047,0000,0156,0051,0250,0060,0030,0178
Matsushita	0051,0250,0650	Paxonic	0060,0030
Maxcent	1755,1756	Philco	0054,0463,0030,0145
Maxent	1755	Philips	1454,0054,0017,0000,0030,0171,1254,0690
Megapower	0700	Pilot	0051,0060,0030,0178
Megatron	0047,0178,0145	Pioneer	0166,0866,0679
Memorex	0154,0463,0180,0150,0060,0030,0178	Polaroid	0765,0865,1276,1341,1523
Micro Genius	0150	Portland	0451,0092
Midland	0047,0017,0051	Precision	0236,0180
Mitsubishi	0154,0093,0150,1250,0030,0178,0836	Prima	0761,0783,0815,0817
Monivision	0700,0843	Princeton	0700
Motorola	0054,0051,0093,0150	Prism	0051,0250
Multitech	0180	Proscan	0047,0030,1347,1447
NAD	0156,0178,0166,1156,0866	Proton	0178
NEC	0047,0030,0178,1704	Pulsar	0017,0092
NTC	0092	Pulser	0178,0092
NetTV	1755	Quartz	0150,0178
Nikko	0047,0017,0154,0156,0030,0178,0092,1347	Quasar	0051,0250,0650
Nikkodo	0030,0178,0092	RCA	0090,1547,0047,0054,0000,0051,0093,0178,1047,1147,1247,1347
Nishi	0030	Rabbit	0047
Norcent	0748	RadioShack	0047,0154,0180,0150,0030,0178
Nyon	0000	Realistic	0047,0154,0180,0150,0030,0178
Onwa	0180	Runco	0017,0060,0030
Optimus	0154,0250,0093,0180,0150,0030,0178,0166,0650,0079	SR2000	0154,0171
Optonica	0093	SSS	0180
Orion	0017,0236,0463,0180,0178,1463	SV2000	0054
PCE	0156,0060	SVA	0748,0865
Pace	0092	Sampo	0047,0030,1755,1756
Panda	0706	Sanky	0060,0030
Panasonic	0047,0054,0154,0000,0156,0051,0250,0093,0236,0150,0060,0053,0030,0178,0145,1347,0650	Samsung	0047,0054,0017,0154,0060,0702,0030,0178,1060,0812

TVs

Sansui	0463,0060,0030	Techwood	0051,0250,0060
Sanyo	088,0047,0054,0154,0000,0463,0171,1755	Teknika	0054,0463,0180,0150,0060,0178,0092
Saville	0060	Telecolor	0017
Scotch	0178	Telefunken	0702
Scott	0236,0180,0030,0178	Thomas	0047,0178
Sears	0047,0054,0017,0154,0000,0156,0051,0093,0060,0053,0030,0178,0171,0166	Thomson	0047,1447
Sharp	0054,0093,0180	Tocom	0156
Sheng Chia	0093	Toshiba	0154,0156,0150,1265,0060,0145,0166,1145,1156,1256,1356,1656,1704,0650
Shivaki	0178	Totevision	0051
Siemens	0145	Toyomenka	0178
Signature	0054	Truetone	0051,0250
Signature 2000	0047,0093,0030	Ultra	0092
Simpson	0030,0178	Universal	0047
Singer	0060,0092	V	1755,1756
Solar Drape	0000	Vector Research	0030
Sony	1100,0017,0154,0000,0150,0053	Victor	1100,0053
Soundesign	0180,0178	Vidikron	0054
Spectravision	0156,0178	Vidtech	0178
Squareview	0171	Viewsonic	1755
Starlite	0236,0180	Viking	0060
Studio Experience	0843	Visio	1755,1756
Supreme	0000	Vizio	1756
Sylvania	0047,0054,0154,0000,0051,0030,0178,0092,0171	Wards	0047,0054,0017,0154,0000,0156,0051,0093,0236,0180,0060,0030,0178,0166,1147,1347,1156,0866
Symphonic	0000,0180,0178,0171	Waycon	0156
TMK	0236,0180,0178	Welton	0178
TNCi	0017	Westinghouse	0451
TVS	0463	White Westinghouse	0451,0236,463,0623
Tandy	0093	World	0451,0236,0463,0180
Tatung	0000,0051,1756	XR1000	0154,0180,0171
Teac	0154,0706	Yamaha	0030
Technics	0047,0054,0017,0051,0250,1347,0650	York	0030
Technovox	0030	Zenith	0047,0017,0000,0093,0463,0030,0178,0145,0092,0171,1145,0812

VCRs

A-Mark	0000,0037,0240	Crosley	0000,0035,0081
ABS	1972	Crown	0072
Admiral	0060,0048,0039,0047,0104,0209	Curtis Mathes	1035,0000,0035,0060,0162,0240,0041
Adventura	0000,0037,0240	CyberPower	1972
Adyson	0072	Cybernex	0240
Aiwa	0124,0000,0037	Daewoo	1278,0037,0045
Akai	0175,0041	Daytron	0037
Alba	0209,0072	Dell	1972
Alienware	1972	Denon	0081,0042
Allegro	0039	Derwant	0041
American High	0035,0081	DirectTV	0739
Amstrad	0000	Dual	0000
Asha	0240	Durabrand	0039
Astra	0035,0240	Dynatech	0000,0240
Audiovox	0037	Electrohome	0000,0060,0037,0240,0043,0209
Avis	0000,0072	Electrophnic	0037
Beaumark	0240	Emerald	0184,0121
Bell & Howell	0000,0035,0048,0039,0104	Emerex	0032
Bell and Howell	0000,0035,0048,0039,0104	Emerson	1479,1278,0000,0037,0184,0240,0121,0043,0209
Broksonic	1479,0184,0121,0209	Fisher	0000,0039,0047,0104
CCE	0072	Fuji	0035,0033
Calix	0037	Fujitsu	0000
Candle	0037	Funai	0000,0037,0072
Canon	0035	GE	1035,1060,0807,0000,0035,0060,0048,0240
Carrera	0240	Garrard	0000
Carver	0035,0081	Gateway	1972
Citizen	1278,0000,0035,0037,0240,0209	Gemini	0060
Classic	0037	Genexxa	0000,0037
Colortyme	0035,0060,0045	Go Video	0614,0240
Colt	0000,0072	GoldStar	1237,0000,0035,0037,0039
Craig	0037,0047,0240,0072	Goodmans	0000,0037,0081,0072
Criterion	0000,0072	Gradiente	0000

VCRs

Granada	0081,0042	MEI	0035
Grundig	0081	MGA	0060,0240,0043
HI-Q	0000,0035,0047	MGN Technology	0240
HP	1972	MTC	0000,0240,0072
Harley Davidson	0000	MTX	0000
Harman/Kardon	0081	Magnasonic	1278,0000,0037,0240,0072
Harvard	0072	Magnavox	1781,0000,0618,0035,0037,0048, 0039,0081,0240
Harwood	0072	Magnin	0240
Hewlett Packard	1972	Marantz	0035,0081
Hitachi	0089,0000,0035,0037,0045,0042, 0041	Marta	0037
Howard Computers	1972	Matsui	0037,0209
Hughes Network Systems	0739,0042	Matsushita	0035,0081,0162
Humax	0739	Media Center PC	1972
Hush	1972	Memorex	1237,0000,0035,0037,0048,0039, 0047,0162,0240,0104,0209,0072
Hytex	0000,0047,0072	Metz	0037
ITT Nokia	0240,0041	Microsoft	1972
JVC	0067,0041	Midland	0240
Janeil	0240	Mind	1972
Jensen	0067,0041	Minolta	0042
KEC	0037	Mitsubishi	0807,0000,0060,0048,0047,0042,0067,00 43,0041
KLH	0072	Movie Walker	0072
KTV	0000	Multitech	0000,0039,0072
Kenwood	0067,0041	NAD	0240,0104
Kodak	0035,0037	NAP	0035,0037,0039,0033,0042
LG	0037,0240	NEC	0067,0104,0041
LXI	0000,0037,0042,0067	Newtech	0072
Linksys	1972	Nikko	0037
Lloyd's	0000	Nikkodo	0037
Lloyds	0000,0240,0072	Nishi	0240
Loewe	0081	Niveus Media	1972
Logik	0000,0240,0072	Noblex	0240
M Electronic	0240	Northgate	1972

VCRs

Olympus	0035,0162,0104	STS	0042
Onkyo	0222	SV2000	0000,0072
Optimus	0000,0035,0037,1062,0048,0047, 0162,0240,0104	SVA	0000
Orion	1479,0000,0184,0240,0104,0121, 0209	Samsung	0000,1014,0739,0060,0045,0240
Panama	0035	Samtron	0240
Panasonic	0225,1035,0000,0614,0616,0035, 1062,0162	Sanky	0048,0039
Penny	1237,1035,0035,0037,0042,0240	Sansui	1479,0000,0067,0240,0209,0041, 0072
Pennys	0000,0035,0037,0047,0081,0162, 0042,0067,0240	Sanyo	0159,0000,0047,0240,0104
Pentax	0042	Scott	0184,0045,0121,0043
Philco	0000,0038,0081,0209	Sears	1237,0000,0035,0060,0037,0048, 0039,0047,0033,0162,0045,0067, 0104,0043,0209,0041,0072
Philips	0000,0616,0618,0739,0035,0048, 0081,0162,0045,0209	Sharp	0807,0000,0048,0047,0032
Pilot	0037	Shintom	0000,0039,0240,0072
Pioneer	0081,0162,0042,0067	Shogun	0240
Polk Audio	0081	Siemens	0037,0104
Profitronic	0240	Signature	0035
Proscan	1060,0060	Signature2000	0000,0035,0060,0037,0048
Protec	0000,0072	Singer	0037,0240,0072
Protech	0072	Sonic Blue	0614,0616
Pulsar	0039,0240	Sony	1232,0000,0636,1972,0035,0047, 0032,0033,0067
Pulser	0240	Soundmaster	0000
Quartz	0035,0047	Stack9	1972
Quasar	1035,0035,0162	Sylvania	1781,0000,0035,0081,0043
RCA	1035,1060,0807,0000,0880,0035, 0060,0048,0045,0042,0240	Symphonic	0000,0240
RadioShack	0000,0035,0037,0048,0047,0162, 0240,0104	Systemax	1972
Radix	0037	TMK	0000,0240
Randex	0037	TNIX	0037
Realistic	0000,0035,0037,0048,0047,0162, 0240,0104,0121	Tagar Systems	1972
Replay TV	0614,0616	Tandy	0000,0104
Ricavision	1972	Tatung	0000,0048,0081,0067,0041
Runco	0039	Teac	0000,0067,0041

VCRs

Technics	0000,0035,0060,0037,0039,0162	Victor	0067,0041
Tenika	0000,0035,0037	Video Concepts	0045
Telecorder	0240	Videomagic	0037
Telefunken	0041	Videosonic	0000,0240,0072
Thomas	0000	Viewsonic	1972
Thomson	0060,0041	Villain	0000
Tivo	0618,0636,0739,1503	Voodoo	1972
Tocom	0240	Wards	0000,0035,0060,0037,0048,0039, 0047,0081,0033,0045,0042,0240, 0043,0041,0072
Toshiba	0845,1145,0000,1503,1008,1972, 0045,0240,0043,0209,0041	White Westinghouse	0000,0209,0072
Totevision	0037,0240	World	0209
Touch	1972	XR-1000	0000,0035,0072
Trix	0037	XR1000	0000,0035,0240,0072
Ultra	0045	Yamaha	0041
Unitech	0240	ZT Group	1972
Vector	0045	Zenith	1479,0000,0037,0039,0033,0209, 0041
Vector Research	0184	iBUYPOWER	1972
Vextra	0072		

DVD Players

3D LAB	0503,0539	Axion	0801,0869,0741
Advent	1016	Blaupunkt	0717
Aiwa	0641	Blue Parade	0571
Akai	0899,0770,0705	Blue Sky	0695,0699
Alba	0672,0717	Brandt	0651
Alco	0709	Broksonic	0695,0868
Allegro	0869	California Audio Labs	0490
Apex	0533,0672,1056,1061,0830,0794,0 796,0797,1100,1020,0717,0755	Celestial	1020
Apex Digital	0672,1056,1061,0830,0794,0796, 0797,1100,1004,1020,0717,0755	Centrex	0672,1004
Aspire	1168	CineVision	0869,0876,0833
Audiovox	0790,0717,1071,1121,1122	Cinea	0831

DVD Players

Citizen	1003,1277	GoldStar	0801,0869,0741
Clairtone	0571	Goodmans	0790
Coby	0778,1107	Gradiente	0490,0651
Craig	0831	Greenhill	0717
Creative	0503,0539	Grundig	0539,0705
Curtis Mathes	1087	Harman/Kardon	0582,0702
CyberHome	0816,1023,1117,1024,1129,0874	Hitachi	0573,0664,1247
Cytron	0705	Hiteker	0672
DVD2000	0521	IRT	0783
Daewoo	0869,1172,0784,0770,1169,0705,0833	Initial	0717
Dansai	0770	Integra	0571,0627
Decca	0770	JBL	0702
Denon	0490,0634	JMB	0695
Denver	0778	JVC	0623,1164,0558,0867
DiviDo	0705	Jensen	1016
Digitrex	0672	KLH	1020,0790,0717,1149
Disney	0675,1270	KLH Digital	0717
Dual	0675	Kawasaki	0790
Durabrand	1127	Kenwood	0490,0534
Electrohome	1003	Kloss	0533
Emerson	0675,0821,1268,0591	Koss	1061,0651
Enterprise	0591	LG	0801,0591,0869,0741
Entivo	0503,0539	Lasonic	0798,0627
Enzer	0770	Lecson	1533
Firstline	0651	Lenoxx	1127
Fisher	0670	Lite-On	1058,1158
Funai	0675,1268,1334	LiteOn	1058,1158,1416,1440
GE	0522,0717,0815	Loewe	0511,0741
GPX	0699	Logix	0783
Gateway	1158,1073	Magnasonic	0675,0651
General Electric	0717	Magnavox	0503,0539,0675,0646,0821
Go Video	0573,1075,1044,0744,0717,0869,0741,0783,1158,1099,1304,1730,0833,0715	Marantz	0503,0539,0675
Go Vision	1071	McIntosh	1533

DVD Players

Medion	0651		
Memorex	0695,1270,0831	Realistic	0571
Microsoft	0522	Reoc	0752
Minato	0752	Revoy	0699
Mintek	0717,0839	Rio	0869
Mitsubishi	0521,1521	Rotel	0623
NAD	0591,0741	Rowa	1004,0823
NEC	0785,0869	SVA	0717
Naiko	0770	Saba	0651
Nesa	0717	Sampo	0752
Nexx Tech	1402	Samsung	0490,0573,0820,1075,0899,1044, 0744
Norcent	1003,1107	Sansui	0695
Onkyo	0792,0503,0627	Sanyo	0695,0675,0670,1334,0873
Optimus	0571	Schneider	0783
Orion	0695	Schwaiger	0752
Oritron	0651	Sensory Science	1158
Palsonic	0672	Sharp	0675,1256,0752,0630
Panasonic	0503,0490,1762,0703,1362,1462, 1490,0571	Sharper Image	1117
Philips	0503,0539,0675,1267,0646,0854, 1354,1260	Sherwood	0770,1043
Phonotrend	0699	Shinsonic	0533,0839
PianoDisc	1204	Slim Art	0784
Pioneer	0571,0525,0631	Sonic Blue	0573,0869,0783,1099,0175
Polaroid	1061,1020	Sony	0533,1033,1461,0864,1533
Polk Audio	0539	Sova	1122
Portland	0770	Superscan	0821
Prima	1016	Sylvania	0675,0821,1268,0630
Provision	0778	Symphonic	0675,0821,1268,1334
Proceed	0672	Tatung	0770
Proscan	0522	Teac	0809,0571,0790,0717
Prosonic	0699	Technics	0490,0703
Qwestar	0651	Technika	0770
RCA	0522,0571,0822,1132,1022,0790, 0717	Tevion	0651
RadioShack	0571	Theta Digital	0571

DVD Players

Thomson	0511,0522	Venturer	0790
Toshiba	0503,0695,1045,1154,0573,0539	Wesder	0699
US Logic	0839	Xbox	0522
USLogic	0839	Yamaha	0490,0539,0545
Unimax	0770	Zenith	0503,0591,0869,0741
Universum	0591	Zeus	0784
Urban Concepts	0503,0539	iLo	1348

TROUBLESHOOTING

There is no picture or sound.



- Make sure the AC cord is connected.
- Verify that there is a valid source signal.
- Make sure the correct input mode is selected.

There is no picture from AV.



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

There is no sound.



- Make sure the volume is not set to minimum.
- Make sure the sound is not muted
- Make sure that headphones are not connected.

There is no picture or sound , just noise.



- The source signal may be weak.
- Your provider may be experiencing difficulties.
- Check your input connections.

Picture is not clear.



- The source signal may be weak.
- The provider may be experiencing difficulties.
- Check input connections.

Picture is light or improperly tinted.



- Check the Hue, Saturation and Color adjustments.
- Reset the TV to the factory default settings.

The picture is too dark.



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

Remote control does not work.



- Install new batteries.
- Make sure the remote sensor window isn't blocked.
- Make sure the system is in the right mode (TV, CAB/SAT, DVD or AUX.)

There are stripes on the screen or colors fade.



- There may be interference from other appliances.
- There may be interference between the video source cable and the power cable.
- Make sure the power and video cables are not touching. Check the Hue, Saturation and Color adjustments

The picture is not sharp.



- The signal source may be weak.
- The provider may be experiencing difficulties.
- Check input connections.
- Check the Sharpness of Picture Settings.

The picture moves.



- The source signal may be weak.
- The provider may be experiencing difficulties.
- Check input connections.

The picture is doubled or tripled.



- The source signal may be weak.
- Check input connections.

The picture is spotted.



- There may be interference from other appliances nearby or around the LCD TV.

SPECIFICATIONS

ITEMS		32"	
Panel	Screen Size	31.51" TFT-LCD Panel	
	Aspect Ratio	16 : 9	
	Resolution	1366 x 768	
	Display Area (opening) H x V	697.68 mm x 392.25 mm	
	Pixel Pitch	0.51075 mm x 0.51075 mm	
	Display colors	16.7 M	
	Contrast Ratio	1200 : 1 (typ.)	
	Brightness (center)	500 cd / m ² (typ.)	
	Viewing Angle (CR≥20)	176° Hor. / 176° Ver. (typ.)	
	Response Time (GTG)	8 ms (typ.)	
TV Function	Broadcasting System	Analog : NTSC M / N	Digital : ATSC/Clear QAM
	Receiving Channel	Analog : PLL181Ch., CATV 125Ch	Digital : 54M Hz~864M Hz
	Sound System	Analog : Multi-channel TV Sound	Digital : Multi-Track Sound
	Resolution	Analog : 480i	Digital : 1080i, 720p, 480p, 480i
	Data Broadcasting	Close Caption , V - Chip	
Video Input	Composite Signal	CVBS	x 2
	Y, C Signal	S-Video	x 2
	Component Signal	Y Pb Pr	x 2 (720P / 1080i , HDTV ready)
PC Input	HDMI Connection	HDMI	x 2
	VGA Connection	D-Sub 15 pin	
	Scanning Frequency	f _H = 31.5 ~ 60KHz / f _V = 56 ~ 75Hz	
Audio Input	Audio 1	Composite	
		S - Video	
	Audio 2	Component	
Audio 3	PC		
Audio Output	Speaker (build-in)	10W + 10W (rms) @THD < 10%	
	Line Out	Left / Right	
	Digital Audio Out	S / PDIF (for HDMI and DTV) .	
Feature	Function Keys	Power , Source , Menu , Up/Down(Channel) , +/- (Volume) , ARC/EXIT	
	Video Performance	3D Comb-filter , 3D De-interlace , Aspect Ratio Control (ARC) , Auto Picture Control, Video Enhance, Noise Reduction	
	Audio Performance	Subwoofer, Auto Volume Control (AVC)	
	Other Control	Sleep Timer, Timer On, Timer Off	
Power	Power Supply	AC 100V ~ 240V , 50 / 60Hz	
	Power Consumption	< 180 W	
Dimension	W x H x D	828.0 mm * 651 .3mm * 240.0mm	
Weight (net)	Without Accessories	22Kg	

ITEMS		37"	
Panel	Screen Size	37.02" TFT-LCD Panel	
	Aspect Ratio	16 : 9	
	Resolution	1366 x 768	
	Display Area (opening) H x V	819.6 mm x 460.8 mm	
	Pixel Pitch	0.6 mm x 0.6 mm	
	Display colors	16.7 M	
	Contrast Ratio	1200 : 1 (typ.)	
	Brightness (center)	500 cd / m ² (typ.)	
	Viewing Angle (CR≥10)	170° Hor. / 170° Ver. (typ.)	
	Response Time (GTG)	8 ms (typ.)	
TV Function	Broadcasting System	Analog : NTSC M / N	Digital : ATSC/Clear QAM
	Receiving Channel	Analog : PLL181Ch., CATV 125Ch	Digital : 54M Hz~864M Hz
	Sound System	Analog : Multi-channel TV Sound	Digital : Multi-Track Sound
	Resolution	Analog : 480i	Digital : 1080i, 720p,480p, 480i
	Data Broadcasting	Close Caption , V - Chip	
Video Input	Composite Signal	CVBS	x 2
	Y, C Signal	S-Video	x 2
	Component Signal	Y Pb Pr	x 2 (720P / 1080i , HDTV ready)
PC Input	HDMI Connection	HDMI	x 2
	VGA Connection	D-Sub 15 pin	x 1
	Scanning Frequency	$f_{H=}$ 31.5 ~ 60KHz / $f_{V=}$ 56 ~ 75Hz	
Audio Input	Audio 1	Composite	
		S - Video	
	Audio 2	Component	
	Audio 3	PC	
Audio Output	Speaker (build-in)	10W + 10W (rms) @THD < 10%	
	Line Out	Left / Right	
	Digital Audio Out	S / PDIF (for HDMI and DTV) .	
Feature	Function Keys	Power , Source , Menu , Up/Down(Channel) , +/- (Volume) , ARC/EXIT	
	Video Performance	3D Comb-filter , 3D De-interlace , Aspect Ratio Control (ARC) , Auto Picture Control, Video Enhance, Noise Reduction .	
	Audio Performance	Subwoofer, Auto Volume Control (AVC)	
	Other Control	Sleep Timer, Timer On , Timer Off .	
Power	Power Supply	AC 100V ~ 240V , 50 / 60Hz	
	Power Consumption	< 220 W	
Dimension	W x H x D	947.0 mm * 722.0 mm * 240.0mm	
Weight (net)	Without Accessories	25Kg	

ITEMS		42"	
Panel	Screen Size	42.02" TFT-LCD Panel	
	Aspect Ratio	16 : 9	
	Resolution	1366 x 768	
	Display Area (opening) H x V	930.25 mm x 523.01 mm	
	Pixel Pitch	0.68 mm x 0.68 mm	
	Display colors	16.7 M	
	Contrast Ratio	1500 : 1 (typ.)	
	Brightness (center)	500 cd / m ² (typ.)	
	Viewing Angle (CR>10)	178° Hor. / 178° Ver. (typ.)	
	Response Time (GTG)	8 ms (typ.)	
TV Function	Broadcasting System	Analog : NTSC M / N	Digital : ATSC/Clear QAM
	Receiving Channel	Analog : PLL181Ch., CATV 125Ch	Digital : 54M Hz~864M Hz
	Sound System	Analog : Multi-channel TV Sound	Digital : Multi-Track Sound
	Resolution	Analog : 480i	Digital : 1080i, 720p,480p, 480i
	Data Broadcasting	Close Caption , V - Chip	
Video Input	Composite Signal	CVBS	x 2
	Y, C Signal	S-Video	x 2
	Component Signal	Y Pb Pr	x 2 (720P / 1080i , HDTV ready)
PC Input	HDMI Connection	HDMI	x 2
	VGA Connection	D-Sub 15 pin	
	Scanning Frequency	f _H = 31.5 ~ 60KHz / f _V = 56 ~ 75Hz	
Audio Input	Audio 1	Composite	
		S - Video	
	Audio 2	Component	
	Audio 3	PC	
Audio Output	Speaker (build-in)	15W + 15W (rms) @THD < 10%	
	Line Out	Left / Right	
	Digital Audio Out	S / PDIF (for HDMI and DTV) .	
Feature	Function Keys	Power , Source , Menu , Up/Down(Channel) , +/- (Volume) , ARC/EXIT	
	Video Performance	3D Comb-filter , 3D De-interlace , Aspect Ratio Control (ARC) , Auto Picture Control, Video Enhance, Noise Reduction	
	Audio Performance	Subwoofer, Auto Volume Control (AVC)	
	Other Control	Sleep Timer, Timer On, Timer Off	
Power	Power Supply	AC 100V ~ 240V , 50 / 60Hz	
	Power Consumption	< 300 W	
Dimension	W x H x D	1067.0 mm * 815.0 mm * 270.0mm	
Weight (net)	Without Accessories	36.1Kg	

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