HD Widescreen LCD TV/DVD Combo
1513-TDXB and 1913-TDXB

Polaroid

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.

DOLBY
D I G I T A L

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Confidential unpublished works. © 1992 -1997 Dolby Laboratories, Inc. All rights reserved.

HDMI™

This TV incorporates High-Definition Multimedia Interface (HDMI™) technology.
HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

Federal Communications Commission Statement

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

1. Reorient/Relocate the receiving antenna.

2. Increase the separation between the equipment and receiver.

3. Connect the equipment into an outlet on a circuit which is different from what the receiver is connected to.

4. Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user authority to operate the equipment.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

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

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.

CLASS1
LASER PRODUCT

CAUTION: Laser radiation when open. Do not stare into beam.

CAUTION: USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

Warnings and Precautions

To prevent any injuries, the following safety precautions should be observed in the installation, use, servicing and maintenance of this equipment.
Before operating this equipment, please read this manual completely, and keep it nearby for future reference.

WARNING	This symbol is intended to alert the user to avoid the risk of electric shock. This equipment must not be disassembled by anyone except qualified service personnel.
CAUTION	This symbol is intended to alert the user to the presence of important operating and maintenance instructions in the literature accompanying the appliance.

	To reduce the risk of fire or electric shock, do not expose this equipment to rain or moisture. ▪ TO REDUCE THE RISK OF ELECTRIC SHOCK, ▪ DO NOT REMOVE COVER (OR BACK). ▪ NO USER-SERVICEABLE PARTS INSIDE. ▪ REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.
	Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

Important Safety Instructions

	This symbol indicates caution points.
	This symbol indicates actions that should not be done.
	This symbol indicates actions that must be performed.

	▪ Do not place the equipment on any uneven or unstable carts, stands, tables, shelves etc. The equipment may fall, causing serious injury to children or adults and serious damage to the equipment itself.
	▪ Use only a cart or stand recommended by the manufacturer. This equipment and recommended cart or stand should be handled with care. Quick stops, excessive force, and uneven surfaces may cause the equipment and cart/stand to overturn.

	▪ Do not disable the 3-wire grounding type plug. The grounding pin on the 3-prong plug is an important feature. Removing the grounding pin will increase the risk of damaging the equipment. ▪ If you can not fit the plug into the electrical outlet, contact an electrician to install a grounding outlet. ▪ Always operate this equipment from the type of power source indicated on the rear of the serial/model plate. ▪ Never overload wall outlets and extensions.

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- Use and handle the power cord with care. Do not place any heavy objects on the AC power cord.

- Do not pull the AC power cord. Do not handle the AC power cord with a wet hand.

- Do not touch the power cord and antenna cable during lightning.
- Remove the plug from the wall outlet, if the equipment will not be used for a long period of time.

- Do not place, use or handle this equipment near water.

- Never expose the equipment to liquid, rain, or moisture.
  Seek for service if any of the above is spilled into the equipment.

- Do not expose the equipment to extreme temperature or to direct sunlight, as the equipment may heat up and suffer damage.

- Do not install the equipment near any heat sources such as radiators, heat registers, stoves, or any other apparatus that might produce heat.

- Do not attempt to service the equipment yourself.

- Opening and removing the covers may expose you to dangerous voltage or other hazards and may void your warranty. Refer service to qualified personnel.

- Do not place or drop any other objects on top.

- Do not insert anything into the ventilation holes of your equipment.
  Inserting any metal or flammable objects may result to fire or electric shock.

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

- Do not place the equipment on uneven or unstable carts, stands, tables, shelves etc. The equipment may fall, causing serious injury to children or adults and serious damage to the equipment itself.
  Always place the equipment on the floor or on a surface that is sturdy, level, stable and strong enough to support the weight of the equipment.

- Do not block any ventilating openings. Leave an open space around the equipment.
  Never place the equipment :
  on a bed, sofa, rug, or any other similar surfaces; too close to drapes/curtains/walls, in a bookcase, built-in cabinet, or any other similar places that may cause poor ventilation.

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

- 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.

- Always remove the power cord from the outlet before cleaning the equipment.

- Never use liquid or aerosol cleaners on the equipment.
  Clean only with a soft dry cloth.

- Only use attachments/accessories specified by the manufacturer.

Antenna Safety Instructions

If an outdoor antenna is connected, follow the precautions below:

- An outdoor antenna should not be located in any area where it could come in contact with overhead power lines, or any other electric light or power circuits.

- When installing an outdoor antenna system, extreme caution should be taken to prevent contact with power lines. Direct contact with power lines may be fatal and should be avoided at all costs.

Section 810 of National Electrical Code (NEC) provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
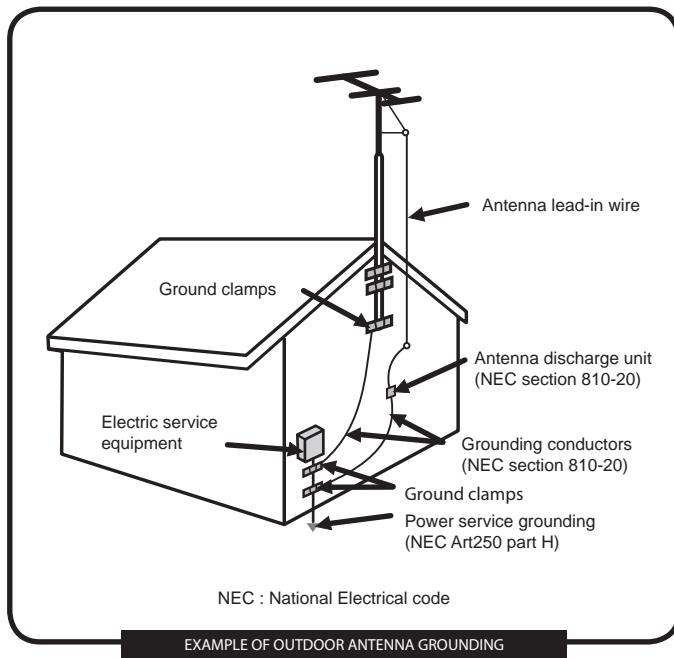
Antenna lead-in wire

Ground clamps

Antenna discharge unit
(NEC section 810-20)

Electric service equipment

Grounding conductors
(NEC section 810-20)

Ground clamps

Power service grounding
(NEC Art250 part H)

NEC : National Electrical code

EXAMPLE OF OUTDOOR ANTENNA GROUNDING

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TABLE OF CONTENTS

Chapter 1
Introducing the LCD TV

Key Features

Various Audio/Video terminals for external equipment connection
- 1 composite VIDEO input terminal
- 1 S-VIDEO input terminals
- 1 sets of component Video input terminals
- 1 VGA/VGA LINE input terminals
- 1 HDMI input terminal
- 1 set of Audio(L/R) input terminals for composite C-VIDEO/S-VIDEO
- 1 set of Audio(L/R) input terminals for component
- 1 COAXIAL output terminal
- 1 Headphone terminal

Built-In Slot-type DVD Player
- Supports DVD/SVCD/VCD/CD compatibility.

Built-in SD Card Reader
- Allows access to digital content stored on a SD card.

Built-In USB Connector

The built-in TV tuner to receive HD ATSC
- This function allows the reception of HD broadcasting without the addition of a set top box.

High Definition Multimedia Interface (HDMI)
- High Definition Multimedia Interface (HDMI) is a small, user-friendly interconnect that can carry up to 5 Gbps of combined video and audio in a single cable. This system eliminates the cost, complexity and confusion of multiple cables used to connect current A/V systems.

HDTV Component Video Inputs
- Offers the best video quality for DVD(HD1080p,1080i, 720p) and digital set-top-box (HD1080p,1080i, 720p) connections.

3D Digital Noise Reduction
- This function can digitally reduce image noise to provide better picture quality.

Film-Mode Detection (3:2 Reverse Pull Down)
- This function can automatically detect content derived from film and adjust the interlacer's frame matching to provide a more natural-looking, clearer image of the moving picture.

Package Contents

Make sure all of the following contents are included.

☑ LCD TV

☑ Remote Control/   ☑ VIDEO Cable   ☑ Component Cable
AAA Batteries x 2
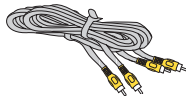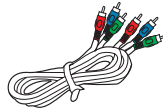
☑ Power Cord   ☑ AUDIO Cable   ☑ AC-DC Adapter

☑ User's Manual   ☑ Quick Start Guide   ☑ Warranty Card

These items are all you need to set up and operate the LCD TV in its basic configuration.

⚠ Make sure all of the above contents are included in the package. If you are missing any items, please contact the Polaroid customer service department.

Setting Up Your LCD TV

How to install the TV Stand

Follow the instructions below to install the TV stand:

❶ Open the box, and make sure all necessary parts are in the box. The package contains:

LCD TV

Stand

❷ Cover an even stable surface with a soft cloth. Place the LCD TV unit face-down on the cloth. Fit the stand onto the bottom of the LCD TV unit as shown:
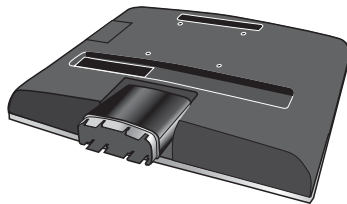
❸ Then push until stand into the LCD TV's stand socket.
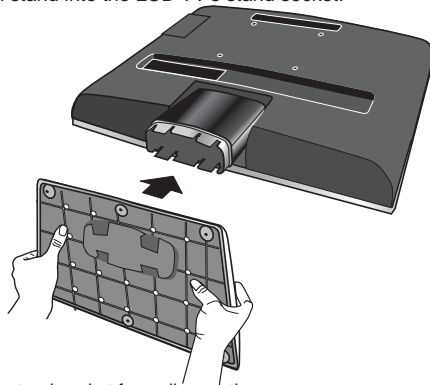
To Remove the LCD TV's stand socket for wall mounting:

Ensure the stand base is removed. For wall mounting the stand socket attached to the back of the TV should be detached. Using a Phillips screwdriver remove the screw which is inside the stand socket. The stand socket section should then slide off the locator rod connected to the TV.

To attach this LCD TV to a wall a standard 100x100 VESA mounting bracket is required.

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How to setup the TV

❶ Use a supplied antenna cable to connect the VHF/UHF signal to the LCD TV's ANT.
terminal (refer to page19-20).

❷ Connect the AC power cord at the back of the TV and connect the power cord to wall
outlet.

❸ Insert the 2 batteries supplied in remote control.

Step1 Slide the back cover up to open the
battery compartment of the remote
control.
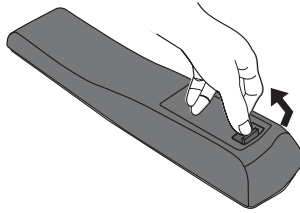
Step2 Insert two AAA size batteries.
Make sure to match the (+) and
(-) ends of the batteries with
the (+) and (-) ends indicated
in the battery compartment.
Slide the cover back into place.
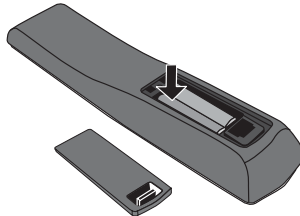
⚠ Do not use caustic cleaners (porcelain, stainless steel, toilet, or oven cleaner
etc.) on the remote, as it may suffer damage.

❹ Connect other an external AV device (refer to page21-27).

Your LCD TV

Front/Left /Right Side View and Controls

Right Side View   Front View   Left Side View

IR
Infrared Receiver

LED
The LED light indicates when the
LCD TV is activated.

HEADPHONE
Connects to the external headphone
for private listening.

VOLUME+-
Adjusts the volume up and
down. Selects the main-menu
item and change values for
items when in the OSD mode.

VOLUME

CHANNEL▲▼
Scans up and down through
channels. Selects sub-menu
item when in the OSD mode.

CHANNEL

MENU
Press once to display the OSD
(on screen display), press again
to turn the OSD off.

MENU

INPUT
Chooses from different input
signal sources.

INPUT

⏻
Turns the LCD TV on and into
standby mode.

USB
Allows access to digital content stored
on a USB storage : MP4/JPEG

BUILT-IN SD CARD READER
Allows access to digital content stored
on a SD card : JPEG/MPEG1/MPEG2/
MPEG4

▶ / ❚❚
PLAY/PAUSE

■/ ▲
STOP/EJECT

SLOT-TYPE DVD PLAYER
Any of the following disc types can
be played on the DVD player: DVD/VCD/
CD/CD-R/CD-RW/JPEG/KODAK
PICTURE CD/WMA/DVD+R/RW/DVD-R/
RW/MPEG-4

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Rear View and Jacks

S-VIDEO/VIDEO/AUDIO(L/R) IN
Connects to the S-Video/Composite VIDEO and AUDIO(L/R) output jacks on external video equipment.

YPbPr IN
Connects to the DVD player, Digital Set-Top-Box, or other AV equipment with component(YPbPr) video and audio output jacks.

HDMI IN   **YPbPr IN**   **VIDEO S-VIDEO   COAXIAL   VHF/UHF IN**
Y   Pb   Pr
VGA IN   VGA LINE IN   L   R   L   R

DC IN
Connects to the AC-DC adapter

VGA IN/ VGA LINE IN
Connects the PC, or other AV equipment with VGA and AUDIO output jacks.

HDMI IN
Connects the all digital AV equipment with HDMI connector.HDMI supports enhanced, high-definition video and two-channel digital audio.

SPDIF OUT
Connects to the audio jack on the digital/standard 5.1 audio system.

VHF/UHF IN
Connects RF input from VHF/UHF antenna or cable to receive high/standard definition television.

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Your Remote Control

This package includes a Polaroid remote that enables control of up to four devices.
To select a device, simply select one of the following device mode controls: TV, CBL/SAT, DVD/VCR, or AUDIO.
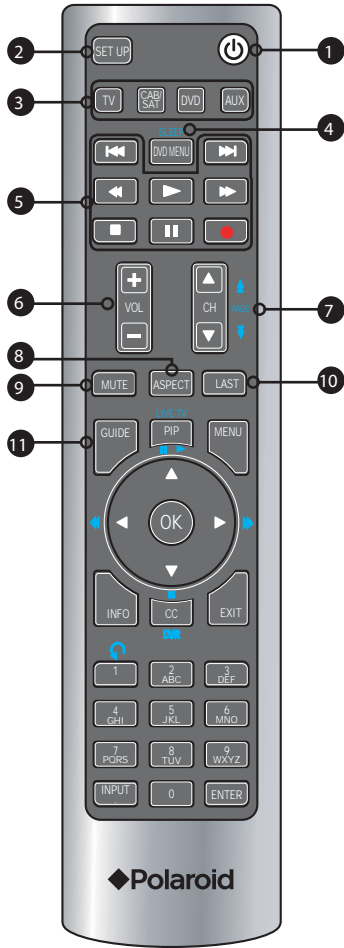
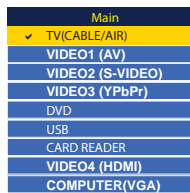| Ref	Button	Description
1	⏻	Turns the LCD TV on and off
2	SET UP	Remote control universal code setup. For more information on setting up your remote control, please see the "Programming Your Remote Control" section (refer to page 56)
3	TV	Controls the LCD TV/Built-in DVD/USB / SD card reader.
	CAB/SAT	Controls Cable Converter or Satellite Receiver
	DVD	Controls DVD player or Video player
	AUX	Controls Audio Amplifier
4	SLEEP	Cycles through the LCD TV sleep time: OFF/10/20/30/40/50/60/90/120 mins
5	● ❚❚ ► ■ ◄◄ ◄◄ ►► ►►❙	Other device function keys
6	VOL+-	Increases and decreases volume
7	CH▲▼	Change channel up and down
8	ASPECT	Cycles through Wide mode settings: NORMAL/FULL/WIDE/ZOOM
9	MUTE	Pressing once mutes audio. Pressing again restores audio
10	LAST	Returns to previously selected channel
11	GUIDE	In TV mode, pressing GUIDE displays the Program Guide on the screen

12
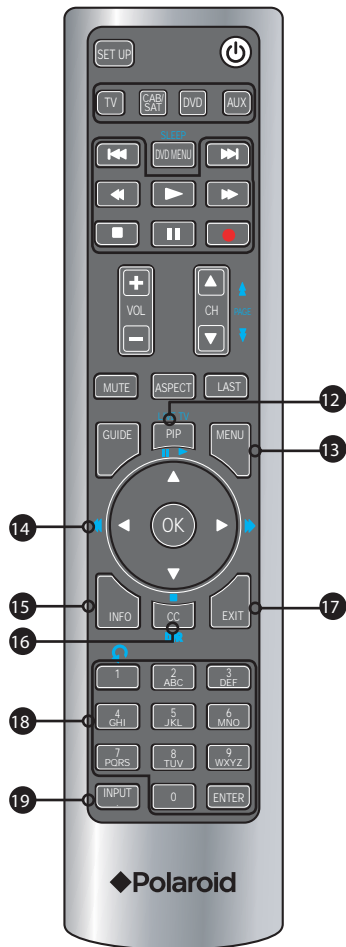
12	PIP	Other device function key
13	MENU	Displays the OSD menu on the screen.
14	◄ ► ▲ ▼,OK	Cycles through OSD options and selects individual menu items. OK confirms option settings
	OK	In TV mode, pressing OK to display a channel list
15	INFO	Displays information on the LCD TV screen such as input source, channel, program title.
16	CC	Cycles through the Closed Caption: ▪ Analog Closed Caption:OFF/CC1/ CC2/CC3/CC4/Text1/Text2/Text3/ Test4 ▪ Digital Closed Caption: Allow to set the digital closed caption
17	EXIT	Exits the OSD menu
18	0-9/ENTER	Pressing a number selects a channel. Following selection, pressing ENTER activates the channel, or channel activates automatically in 3 seconds
19	INPUT	Pressing INPUT to display a source list, use ▲ ▼ to select the video equipment connected to the video inputs of your LCD TV:

Main
✓ TV(CABLE/AIR)
VIDEO1 (AV)
VIDEO2 (S-VIDEO)
VIDEO3 (YPbPr)
DVD
USB
CARD READER
VIDEO4 (HDMI)
COMPUTER(VGA)

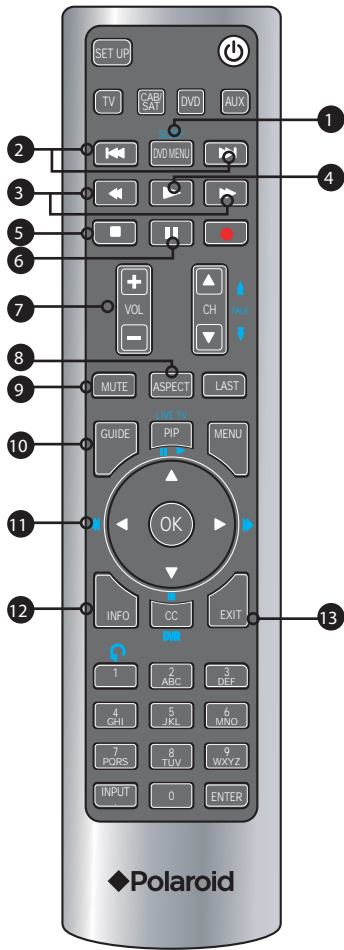▪ In TV mode, use with 0-9 and ENTER buttons to select a digital channels.

Effective range:
The remote can control the LCD TV from up to 5m away, if pointed directly at the receiver.

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Controlling The Built-in DVD

Press the TV button once to activate the built-in DVD control keys, the following functions are preset to operate the built-in DVD:

1	DVD MENU	Press to display the menu of a DVD disc.
2	⏮ ⏭	While playing, press to jump to the previous/next chapter or track.
3	◀◀ ▶▶	Pressing this button during playback advances/reviews playback; speed increases with each pressing: 2x/4x/8x/16x/32x
4	▶	Normal playback.
5	◼	While playing, press this button to stop playing.
6	⏸	While playing, press this button once to pause playing, press once again to resume playing.
7	VOL+-	Increases and decreases volume.
8	ASPECT	Cycles through Wide mode settings: NORMAL/FULL/WIDE/ZOOM
9	MUTE	Pressing once mutes audio. Pressing again restores audio.
10	GUIDE	Displays the Built-in DVD Setup Menu on the screen.
11	◀ ▶ ▲ ▼,OK	Cycles through Built-in DVD OSD options and selects individual menu items. OK confirms option settings
12	INFO	Displays current information on screen during playback.
13	EXIT	Press this button to eject the disc.

Controlling The USB Storage and SD Card Reader

Press the TV button once to activate the built-in USB and SD Card Reader control keys, the following functions are preset to operate the USB Storage and SD Card: For more information on setting up your USB storagnd adn card reader, please see the "Using the USB Storage and SD Card Reader" section.
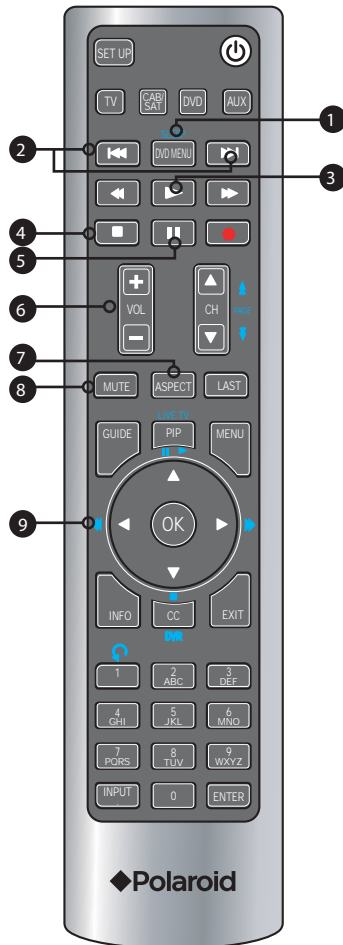
1	DVD MENU	Press to display FILE MENU.
2	⏮ ⏭	Press to go to the next or previous image.
3	▶	Normal playback.
4	▣	Press to display the thumbnail album.
5	⏸	While Slide show, press this button once to pause playing, press once again to resume playing.
6	VOL+-	Increases and decreases volume.
7	ASPECT	Cycles through Wide mode settings: NORMAL/FULL/WIDE/ZOOM
8	MUTE	Pressing once mutes audio. Pressing again restores audio.
9	◄ ►▲▼,OK	In FILE MENU and thumbnail album, Press to move the highlight bar to a file, then press OK to confirm the selected file.
	◄ ►	While image displaying, press to rotate an image 90 degrees in a clockwise or counterclockwise.

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Chapter 2
Installing the LCD TV
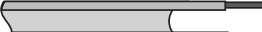
Refer to the owner's manual of any external equipment to be connected.
When connecting any external equipment, do not connect any AC power cords to wall outlets until all other connections are completed.

Connecting a TV Cable or an Antenna

Antenna Connection

The antenna requirements for good color TV reception are more important than those for a black & white TV reception. For this reason, a good quality outdoor antenna is strongly recommended.
The following is a brief explanation of the type of connection that is provided with the various antenna systems.

■ A 75-ohm system is generally a round cable (not included) with F-type connector that can easily be attached to a terminal without tools.

F-type connector

75-ohm coaxial cable (round)

■ A 300-ohm system is a flat twin-lead cable (not included) that can be attached to a 75-ohm terminal through a 300-75-ohm adapter (not included).

300-ohm twin-lead cable (flat)

Use one of the following two diagrams when connecting an outdoor antenna.
A: Shows how to use a VHF/UHF combination outdoor antenna.
B: Shows how to use a separate VHF and/or UHF outdoor antenna.

A. Combination VHF/UHF antenna

VHF/UHF
Antenna

300/75-ohm adapter
(not included)

VHF/UHF
Antenna

300-ohm twin-
lead cable

75-ohm
coaxial cable
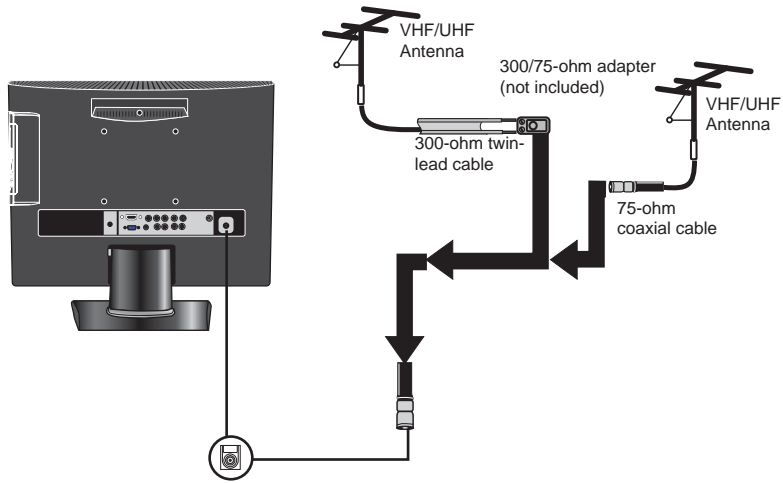
B. Separate VHF and/or UHF antennas

UHF
Antenna

Combiner
(not included)

300-ohm twin-
lead cable

OUT IN

75-ohm
coaxial cable

VHF
Antenna

300-ohm twin-
lead cable
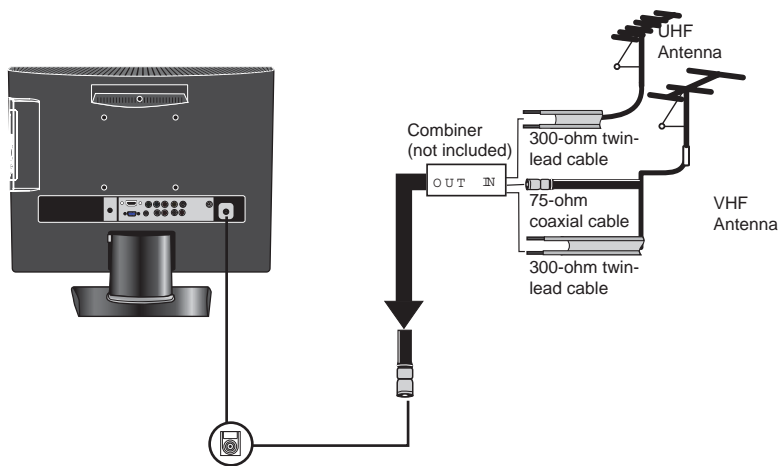
Cable TV (CATV) Connection

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code (NEC) that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building accurately, or as close to the point of cable entry as possible. Use of this TV for other than private viewing of programs broadcasted on UHF, VHF or transmitted by cable companies for the use of the general public may require authorization from the broadcast/cable company, and/or program owner.

■ A 75-ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75-ohm coaxial cable to the set, connect the 75-ohm cable into the ANT. terminal.

■ Some cable TV companies offer premium pay channels. Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company.

This converter/descrambler is necessary for normal viewing of scrambled channels.
(Set your TV to channel 3 or 4, typically one of these channels is used. If this is unknown, consult your cable TV company.)
For more specific instructions on installing cable TV, consult your cable TV company.
One possible method of connecting the converter/descrambler provided by your cable TV company is shown in the diagram below.
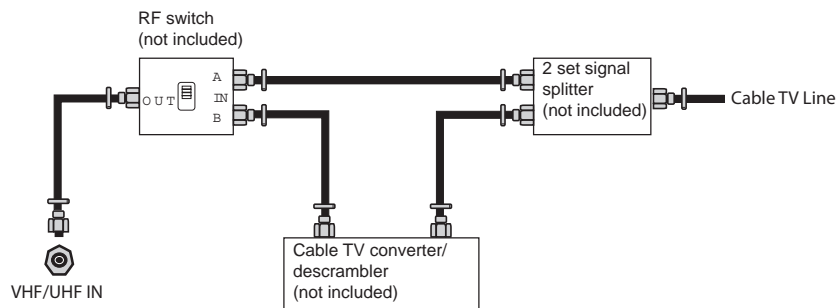
■ The RF switch (not included) is required to provide two inputs (A and B). Setting the RF switch to position A allows viewing of all unscrambled channels by using the TV channel keys.

■ Setting the RF switch to position B allows viewing of all scrambled channels via the converter/descrambler by using the converter channel keys.

❶ Use a supplied antenna cable to connect the TV signal to the LCD TV's TV CABLE terminal.

ENGLISH
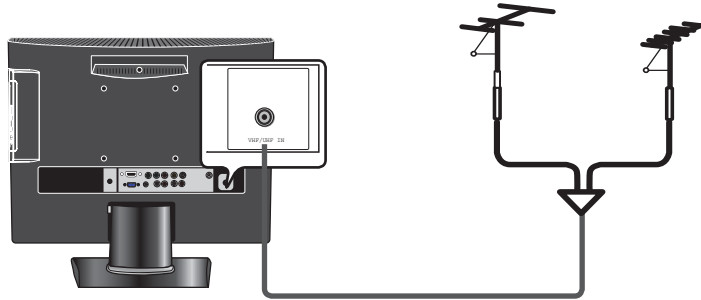
❷ Connect the DC plug of the AC-DC adapter to the DC 12V port at the back of the TV.

❸ Connect the AC-DC adapter and its power cord. Connect the power cord to wall outlet.
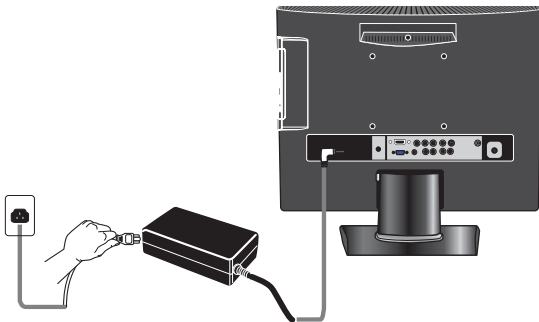
❹ Press the ⏻ button on the remote to turn on the LCD TV.

> ⚠ Always disconnect the LCD TV from the main voltage when the LCD TV will not be used for a long period of time. The POWER button on the front panel is only used for switching the LCD TV into standby, it does not disconnect the device from the main voltage. To completely disconnect the main voltage, please remove the power plug from the socket.

❺ Press the INPUT button on the remote to display the Input List. Use the ▲ ▼ buttons to select TV and press the OK button.

Main
✔ TV(CABLE/AIR)
VIDEO1 (AV)
VIDEO2 (S-VIDEO)
VIDEO3 (YPbPr)
DVD
USB
CARD READER
VIDEO4 (HDMI)
COMPUTER(VGA)

19

❻ Press the MENU button on the remote control to display the Main menu, and use the ◄►
buttons to select the TV.

Channel Scan			‖▶
Tuner Mode	Cable		◄▶
Channel Skip			‖▶
Time Zone	Eastern Time		◄▶

TV   Select   ▣◀▶ / ▲▼   MENU

❼ Press the ▼ button to select Channel Scan, and press the OK button.
The Channel Scan automatically creates a list of receivable channels. Press the
MENU button at any time to interrupt the memorization process.(the list cannot be
created if interrupted)

> ⚠ The Channel Scanning will create a list of receivable channels for the current
> input (antenna or cable). You will be required to run Channel Scanning for each
> RF input to create a list of available channels from both inputs.

❽ Press the OK button to display the received channel list, then press ▲▼ to select a
channel. Or, use the ▪ (INPUT button) with 0-9 buttons to select digital channel(for
example 9.1)

Channel List
5-2 RF5-2
9-1 KQED-HD
9-2 KQED-SD
8   CCT
12
13
15

> ⚠ The digital main channel might include many subchannels (for example 9-1, 9-
> 2..) that are showing program at the same time.

Connecting an A/V Device with Composite Connector

Rear of TV

AUDIO Cable

AV Cable

GAME CONSOLE

CAMERA

VCR

DVD PLAYER

TV CABLE BOX

Satellite antenna cable

SATELLITE RECEIVER

❶ Use a composite cable to connect the external A/V device's composite video/audio jacks to the LCD TV's VIDEO IN jacks.

❷ Connect all AC power sources, before turning on the power switch of the LCD TV or other connected equipment.

❸ Press the ⏻button on the remote to turn on the LCD TV.

❹ To view the A/V device's with component input, press the INPUT button on the remote to select VIDEO1.

⚠ Not all A/V devices have the ability to connect to a TV. Please check your A/V devices user guide for compatibility.

Connecting an A/V Device with S-Video Connector

Rear of TV

GAME CONSOLE   CAMERA

VCR

AUDIO Cable

S-VIDEO OUT

DVD PLAYER

S-VIDEO Cable

TV CABLE BOX

Satellite
antenna
cable

SATELLITE RECEIVER
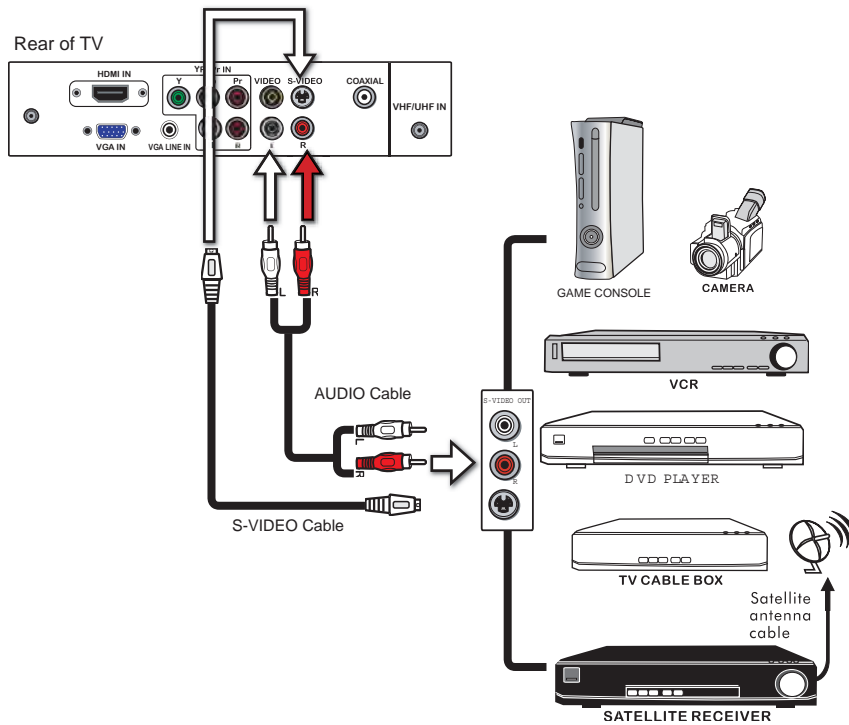
❶ Use an audio cable to connect the external A/V device's audio output jacks to the LCD TV's audio inputs. Use a S-Video cable to connect the external A/V device's S-Video output jack to the LCD TV's S-Video IN input jack.

❷ Connect all AC power sources, before turning on the power switch of the LCD TV or other connected equipment.

❸ Press the ⏻ button on the remote to turn on the LCD TV.

❹ To view the A/V device's with component input, press the **INPUT** button on the remote to select VIDEO2.

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Connecting an A/V Device with Component(YPbPr) Connector

Rear of TV

Y Pb Pr VIDEO S-VIDEO COAXIAL
HDMI I   YPbPr IN   VHF/UHF IN
VGA IN VGA/GAME IN   L R   L   R

Y   Pb/Cb   Pr/Cr   L   R

AUDIO Cable
R
L

COMPONENT Cable
Pr/Cr
Pb/Pb
Y

GAME CONSOLE   CAMERA

COMPONENT OUT
R
L
Pb
Pr
Y

VCR

DVD PLAYER

TV CABLE BOX

Satellite
antenna
cable

SATELLITE RECEIVER
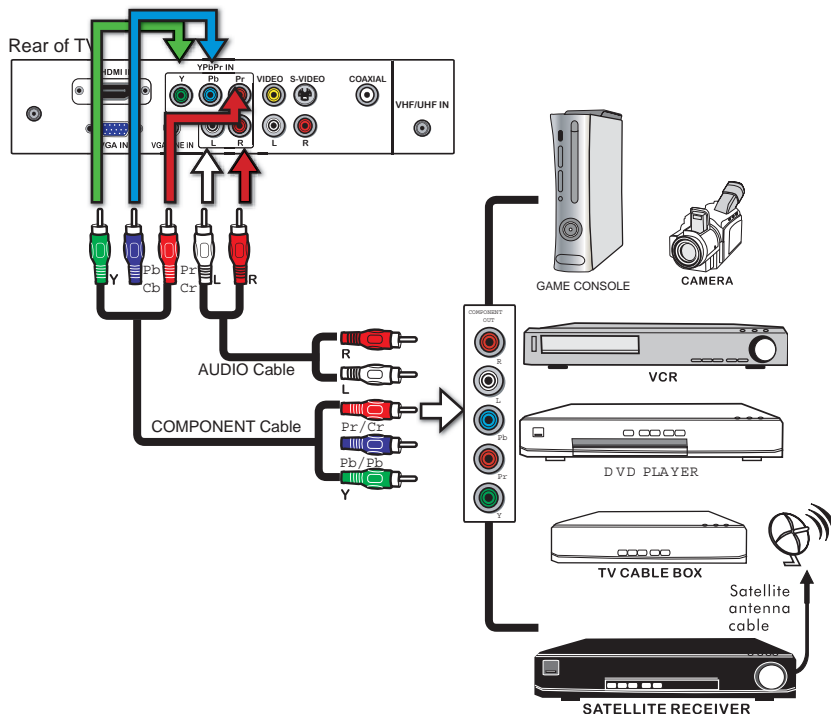
> Not all A/V device have the ability to connect to a TV. Please check your A/V device user guide for compatibility.

❶ Use a component cable to connect the external A/V device's component output jacks to the LCD TV's YPbPr IN input jacks.
Use an audio cable to connect the external A/V device's component audio jacks to the LCD TV's audio input jacks.

❷ Connect all AC power sources, before turning on the power switch of the LCD TV or other connected equipment.

❸ Press the ⏻ button on the remote to turn on the LCD TV.

❹ To view the A/V device's with component input, press the **INPUT** button on the remote to select VIDEO3.

> The component video jacks on your A/V device are sometimes labeled YPbPr, or YCbCr. For an explanation of component video, see your A/V device's user guide.

Connecting an AV Equipment with HDMI Connector

Rear of TV

HDMI Cable

AV EQUIPMENT

➊ Use a HDMI cable to connect the AV equipment's HDMI output jack to the LCD TV's HDMI IN jacks.

➋ Connect all AC power sources, before turning on the power switch of the LCD TV or other connected equipment.

➌ Press the ⏻ button on the remote to turn on the LCD TV.

➍ Press the Input button on the remote to select VIDEO4.

⚠ The HDMI connector provides both video and audio signals, it's not necessary to connect the audio cable.

Connecting an AV Equipment with DVI Connector

Rear of TV

AUDIO Cable

HDMI-to-DVI Cable
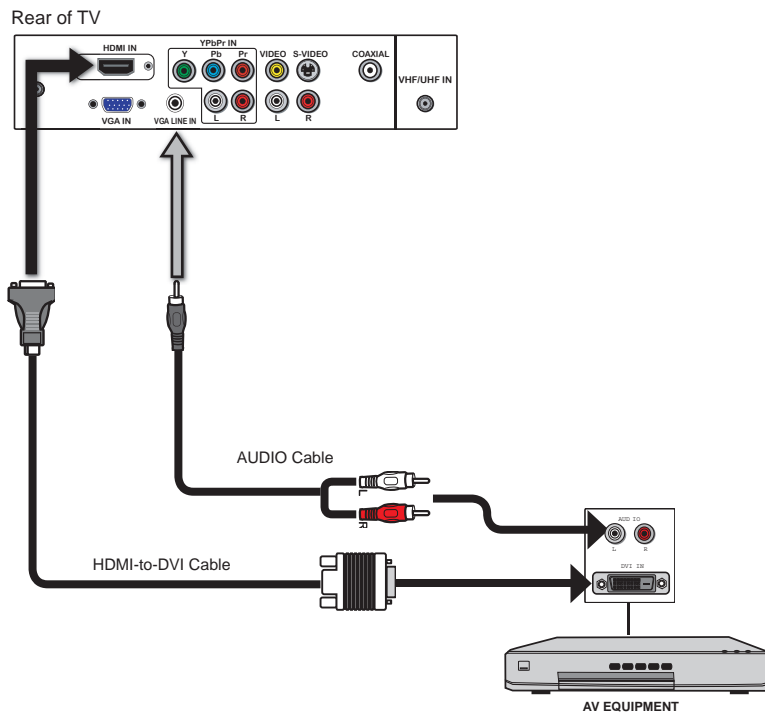
AV EQUIPMENT

❶ Use a HDMI-to-DVI cable to connect the AV equipment's DVI output jack to the LCD TV's HDMI IN jacks.
Use an audio cable to connect the AV equipment's audio output jacks to LCD TV's HDMI AUDIO jacks.

❷ Connect all AC power sources, before turning on the power switch of the LCD TV or other connected equipment.

❸ Press the ⏻ button on the remote to turn on the LCD TV.

❹ Press the Input button on the remote to select VIDEO4.

⚠ If the LCD TV is connected to AV equipment's DVI connector, you will need an HDMI-to-DVI cable or an HDMI adapter(not supplied) and an audio cable.

Connecting a PC

Rear of TV
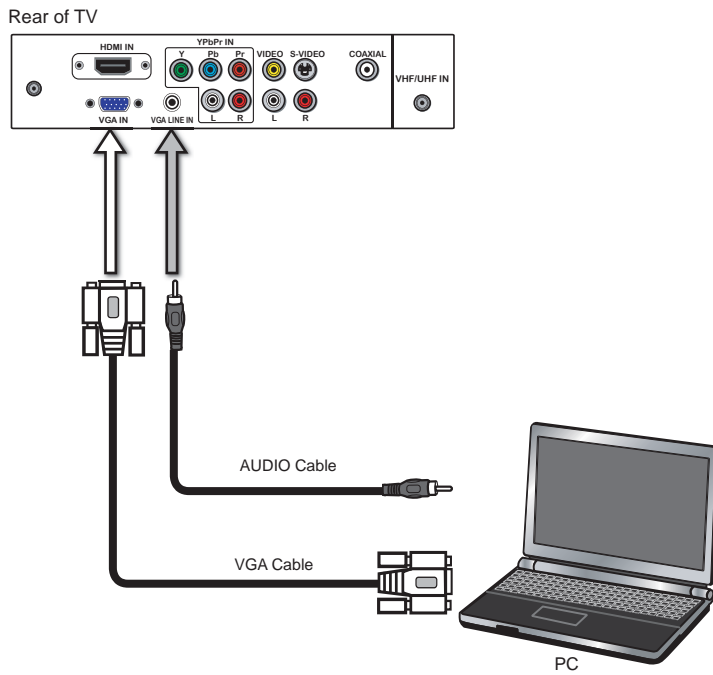
❶   Use a VGA cable to connect the PC's VGA output jack to the LCD TV's VGA input jack.
    Use an audio cable to connect the PC's audio output jacks to LCD TV's.

❷   Connect all AC power sources, before turning on the power switch of the LCD TV or
    other connected equipment.

❸   Press the ⏻ button on the remote to turn on the LCD TV.

❹   Press the INPUT button on the remote to select COMPUTER.

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Connecting an Audio Receiver or a Dolby Digital 5.1 Sound System

For better sound quality, you may want to play the LCD monitor audio through your stereo system.

AUDIO Cable
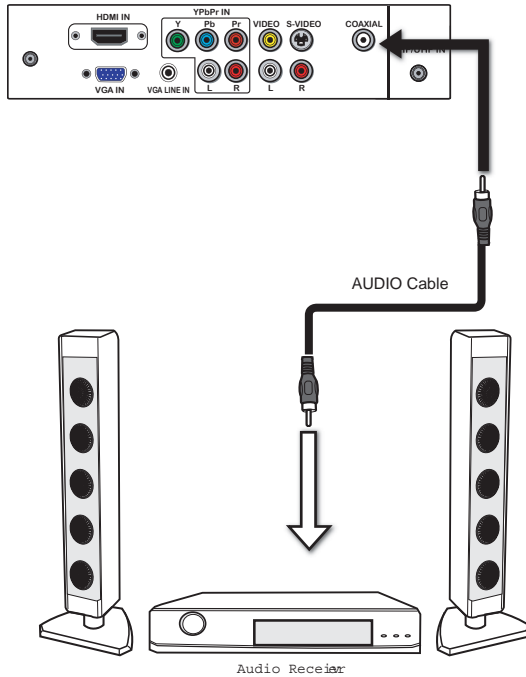
Audio Receiver

❶ Use an audio cable to connect the audio receiver's audio LINE IN jacks to LCD TV's SPDIF OUT jacks.

❷ Connect all AC power sources, before turning on the power switch of the LCD TV or other connected equipment.

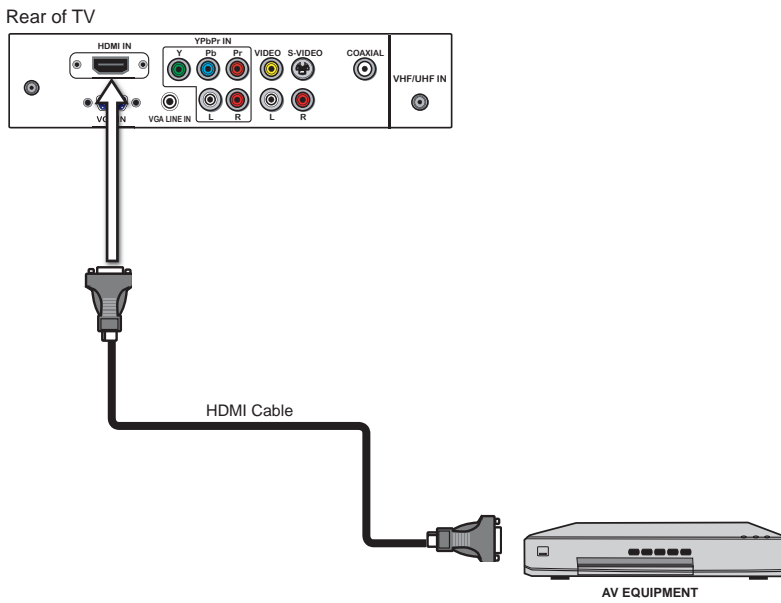❸ Press the ⏻ button on the remote to turn on the LCD TV.

Chapter 3
USING THE FEATURES

Using The Built-in DVD

❶   Turn your LCD TV on.

❷   Insert a disc (DVD, VCD, SVCD, or audio CD).

▪ TO INSERT A DISC
Any of the following disc types can be played on the DVD player: DVD-Video/DVD R/RW/SVCD/VCD/CD/CD-R/CD-RW.

▪ TO REMOVE A DISC
When removing the disc, do not attempt to pull it from its slot. Please push the EJECT button as illustrated below.

Push

Insert
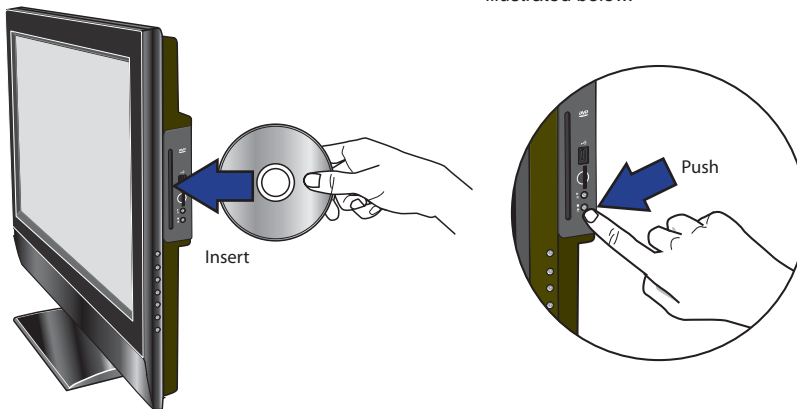
❸   Press the Input button on the remote, use ▲ ▼ to select DVD and press the OK button.

Input Source
TV(CABLE/AIR)
VIDEO1 (AV)
VIDEO2 (S-VIDEO)
VIDEO3 (YPbPr)
✔ DVD
USB
CARD READER
VIDEO4 (HDMI)
COMPUTER(VGA)
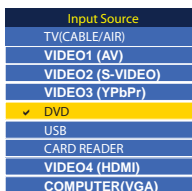
❹ Press GUIDE button on the remote control to display the Built-in DVD Setup Menu:
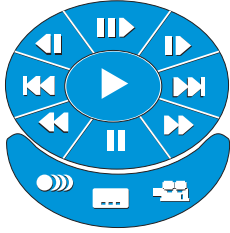
▪ USING THE BUILT-IN DVD SETUP MENU

1. Use the ▲ ▼ ◄ ► on the remote control to to move the light bar to the option you want, press the OK button.

2. During playback, the following operations are available:
   - ▪ EJECT ▐▐▶ Stops playback.
   - ▪ PLAY ▶ Starts playback.
   - ▪ ◀▐ ▐▶ Get slow motion effect during playback
   - ▪ F.FWD/NEXT ▐◀◀ ▶▶▌ Jumps to the previous/next chapter or track.
   - ▪ REW./PREV. ◀◀ ▶▶ Gets different playback forward/backward speeds.
   - ▪ PAUSE ▐▐ While playing, pause playback temporarily
   - ▪ AUDIO ●))) Press to select the Audio effect and Language.
   - ▪ SUBTITLE ▪▪▪ Changes DVD subtitle language.
   - ▪ CAMERA ANGLE ▀▄ Press to select the desired camera angle disc.

❺ The Built-in DVD player can playback JPEG format pictures and audio files on a personally recorded CD-R/RW disc. After loading all files, the File Menu will show the contents of the disc:
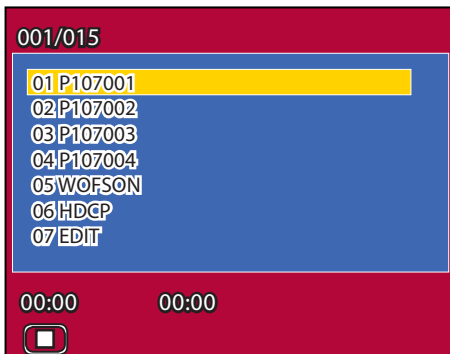
- ▪ Press ▲ ▼ to select an image and press the ▶ button to play the file.
- ▪ Press ▲ ▼ to select the folder and then press ► to enter the folder. Press the ENTER button to active and press ▲ ▼ to select a file. Press ◄ to back the File Menu.
- ▪ While an image is displayed, press the **DVD MENU** button to display the File Menu.

Usinging The USB Storage and SD Card Reader

❶   Turn your LCD TV on.

❷   Insert a USB device/SD card that contains JPG/JPEG/MPG/WMA/DAT files.

- TO INSERT A USB STORAGE
  Allows the insertion of a USB storage.
  You can view digital images or music in
  a USB storage on your TV.

- TO INSERT A SD CARD Reader
  Allows the insertion of a SD card. You
  can view digital images or music.
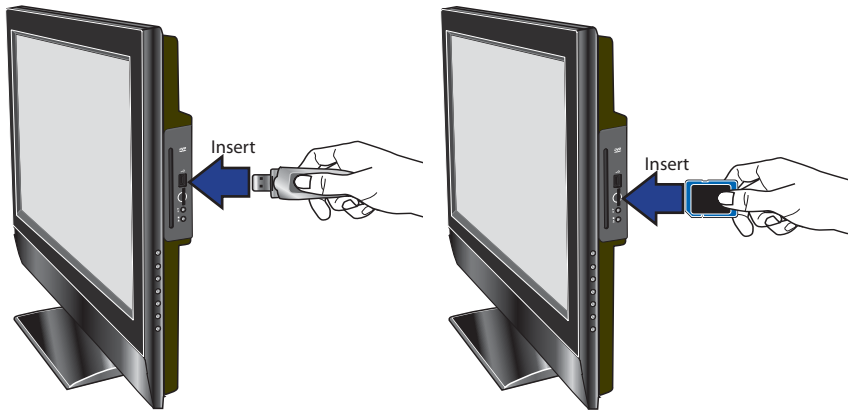
Insert

Insert

⚠ Be sure to insert the USB storage or SD card in the correct direction. If the
   USB storage or SD card is forced in the wrong way, it may cause damaged.

❸   Press the Input button on the remote, use ▲ ▼ to select a input source and
    press the OK button.

- TO INSERT A USB STORAGE

Input Source
TV(CABLE/AIR)
VIDEO1 (AV)
VIDEO2 (S-VIDEO)
VIDEO3 (YPbPr)
DVD
✔ USB
CARD READER
VIDEO4 (HDMI)
COMPUTER(VGA)

- TO INSERT A SD CARD Reader

Input Source
TV(CABLE/AIR)
VIDEO1 (AV)
VIDEO2 (S-VIDEO)
VIDEO3 (YPbPr)
DVD
USB
✔ CARD READER
VIDEO4 (HDMI)
COMPUTER(VGA)

30

4 After loading all files, the File Menu will show the contents of the USB device:

```
001/015

01 P107001
02 P107002
03 P107003
04 P107004
05 WOFSON
06 HDCP
07 EDIT


00:00        00:00
▣
```
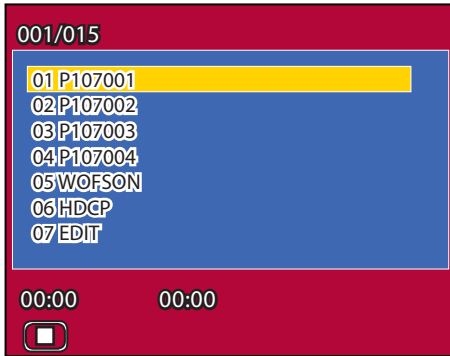
⚠ Do not swith the Input Source between USB and CARD READER while the data is being reading. It may cause data loading failure.

- Press ▲ ▼ to select an image and press the ▶ button to play the file.
- Press ▲ ▼ to select the folder and then press ► to enter the folder. Press the ENTER button to active and press ▲ ▼ to select a file. Press ◄ to back the File Menu.
- While an image is displayed, press the **DVD MENU** button to display the File Menu.

5 ▪ RUNNGING A SLIDE SHOW

1. Press ▲ ▼ on the remote control to move the light bar to the file you want to play, and press the OK button to play the file.

2. While an image is displayed full size, you can pause the slide show by pressing ⏸ .

3. Press ⏮ ⏭ on the remote control to go to the next or previous image.

▪ USING THE THUMBNAIL ALBUM

1. Press ▢ button on the remote control to display the thumbnail album.
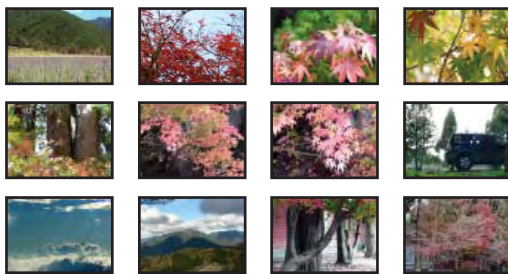
Slide Show   ◄Prev   Next►

2. Press ▲ ▼ ◄ on the remote control to move the light bar to the image you
    want to play, and press the OK button to play the file.

Slide Show   ◄Prev   Next►
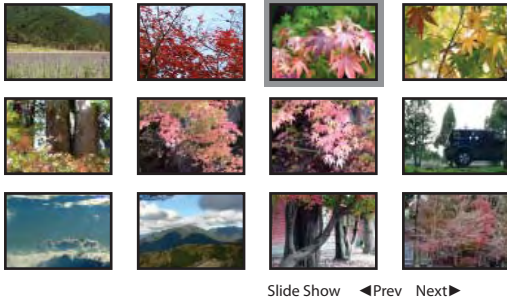
3. ▪ Slide Show: Press ▲ ▼ ◄ to highlisht **Slide Show** and press the OK
       button, to display all the images recorded on the SD card/USB storage.

    ▪ Prev/Next: Press ▲ ▼ ◄ to highlisht **Prev/Next** and press the OK button,
       to go to the previous or next page of the thumbnail album.

▪ ROTATING PICTURES

1. Press ◄ ► on the remote control to to rotate the picture clockwise or
    counterclockwise in 90-degree increments.

2. Press 🔘 🔘 on the remote control to go to the next or previous image.
    .

Wide Screen Viewing

Wide Screen function allows viewing of 4:3/16:9 images in wide screen mode, cycling through the following wide screen settings. Press the ASPECT button repeatedly to select the screen format you want.

❶ NORMAL

Displays at 4:3 aspect ratio

⚠ NORMAL is not available when you are watching 720p, 1080i, or 1080p source.

❷ FULL

Stretches the image vertically and horizontally to keeps the image size consistent in the center of the screen and stretches the sides
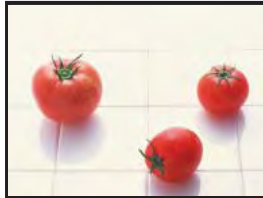
❸ WIDE

Stretches the image vertically and horizontally to fill the screen at 1:1.85 aspect ratio

Using the Program Guide

The Program Guide feature brings all sorts of information to your screen, such as program title, program duration, time remaining, rating information, closed caption, availability, etc.

❶ With the LCD TV connected to a television programming source, press the INPUT button on the remote control and use the ▲ ▼ buttons to select TV and press the OK button.

❷ Press the GUIDE button on the remote control, the Program Guide will appear on the screen:
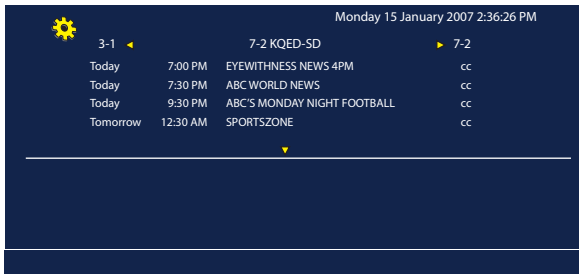
❸ Press the ◄► button to select the channel.

❹ Press the ▲ ▼ button to select the program from a list, the Program Guide provides introduction about the current program being shown on each channel.
The Program information in the guide is provided by the broadcasters. It may sometimes include only the channel number, without a program title or description.
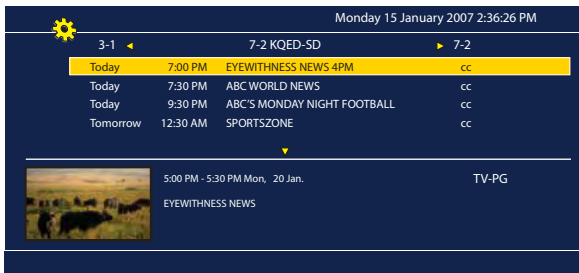
❺ Press the GUIDE button again on the remote control to exit the Program Guide

Operating the Menu

➊   Press the ⏻ button to turn the LCD TV on.

➋   Press the MENU button on the remote control, the on-screen menu will appear on the screen. Use the ◄► buttons to select your main menu option.

VIDEO MENU:

Allows you to make adjustments to your picture settings.

▪ If the signal source is TV, the VIDEO MENU appears as:

Picture Mode	User	◄►
Contrast	50
Brightness	54
Saturation	54
Hue	0
Sharpness	5
Color Temperature	▐▐►
Noise Reduction	Medium	◄►

Video   Select   Exit/⬍   MENU

▪ If the signal source is VIDEO/S-VIDEO/YPbPr/ HDMI, the VIDEO MENU appears as:

Picture Mode	User	◄►
Contrast	50
Brightness	54
Saturation	54
Hue	0
Sharpness	5
Color Temperature	▐▐►
Noise Reduction	Medium	◄►

Video   Select   Exit/⬍   MENU

▪ If the signal source is VGA, the VIDEO MENU appears as:

Picture Mode	User	◄►
Contrast	50
Brightness	54
Color Temperature	▐▐►
Noise Reduction	Medium	◄►
VGA	▐▐►

Video   Select   Exit/⬍   MENU
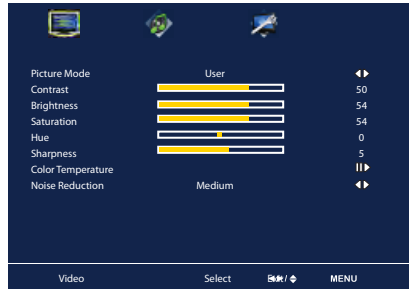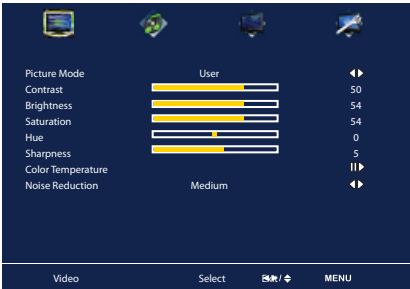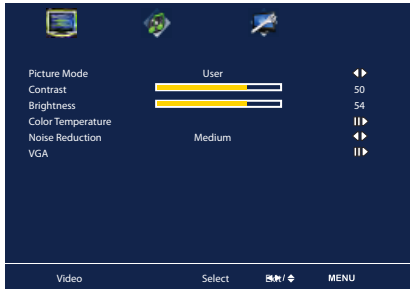
AUDIO MENU:

Allows you to customize the audio options and effects.

▪ If the signal source is VIDEO/S-VIDEO/YPbPr/ HDMI/VGA, the AUDIO MENU appears as:

Bass	50
Treble	50
Balance	0
Sound Effect	Surround	◄►
Speaker	On	◄►

Audio   Select   Exit/⬍   MENU

▪ If the signal source is TV, the AUDIO MENU appears as:

Bass	50
Treble	50
Balance	0
Sound Effect	Surround	◄►
MTS	Stereo	◄►
SPDIF Type	Dolby Digital	◄►
Audio Language	English	◄►
Speaker	On	◄►

Audio   Select   Exit/⬍   MENU

35
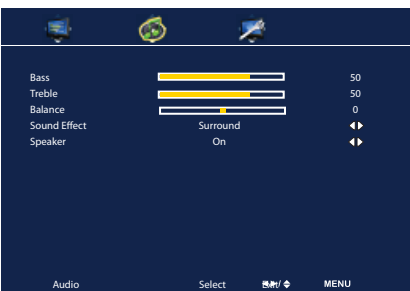
TV MENU:

Allows you to edit and label channels.

Channel Scan			‖▶
Tuner Mode	Cable		◀▶
Channel Skip			‖▶
Time Zone	Eastern Time		◀▶

| TV | Select | Exit / ▲▼ | MENU |

SETUP MENU:

Allows you to set up a variety of features: Language, Closed Caption, factory reset, Parental Control, sleep timer.

- If the signal source is TV, the SETUP MENU appears as:

OSD Language	English	◀▶
Time Setup		‖▶
Closed Caption		‖▶
Parental		‖▶
Gamma	Middle	◀▶
Reset Default		‖▶

| Setup | Select | Exit / ▲▼ | MENU |

- If the signal source is HDMI/VGA, the SETUP MENU appears as:

OSD Language	English	◀▶
Time Setup		‖▶
Parental		‖▶
Gamma	Middle	◀▶
Reset Default		‖▶

| Setup | Select | Exit / ▲▼ | MENU |

- If the signal source is VIDOE/S-VIDEO/YPbPr, the SETUP MENU appears as:

OSD Language	English	◀▶
Time Setup		‖▶
Closed Caption		‖▶
Parental		‖▶
Gamma	Middle	◀▶
Reset Default		‖▶

| Setup | Select | Exit / ▲▼ | MENU |
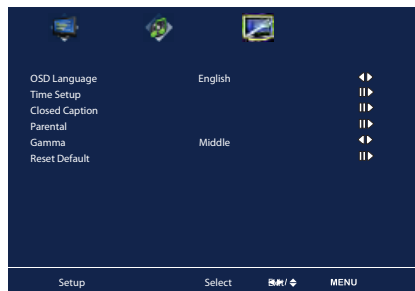
❸ Use the ▲ ▼ buttons to highlight the option of the sub-menu, and press the OK button. While in adjustment mode, and use the ◀▶ buttons to change the value of the item.

❹ Press the EXIT button to exit the menu.

Customizing the VIDEO Settings

❶   Press the   button to turn the LCD TV on.

❷   Press the MENU button on the remote control to display the Main menu, and use the
◄► buttons to select the VIDEO.

❸   Use the ▲▼buttons to highlight an individual VIDEO option, use the ◄► buttons to
change the setting, and press the MENU to exit the menu

▪ If the signal source is TV, the VIDEO MENU
  appears as:

▪ If the signal source isVIDEO/S-VIDEO/YPbPr/
  HDMI, the VIDEO MENU appears as:

Picture Mode	User	◄►
Contrast		50
Brightness		54
Saturation		54
Hue		0
Sharpness		5
Color Temperature		‖►
Noise Reduction	Medium	◄►

| Video | Select | ‖ / ◆ | MENU |

Picture Mode	User	◄►
Contrast		50
Brightness		54
Saturation		54
Hue		0
Sharpness		5
Color Temperature		‖►
Noise Reduction	Medium	◄►

| Video | Select | ‖ / ◆ | MENU |

▪ If the signal source is VGA, the VIDEO MENU appears as:

Picture Mode	User	◄►
Contrast		50
Brightness		54
Color Temperature		‖►
Noise Reduction	Medium	◄►
VGA		‖►

| Video | Select | ‖ / ◆ | MENU |
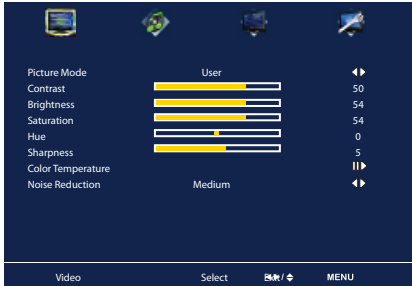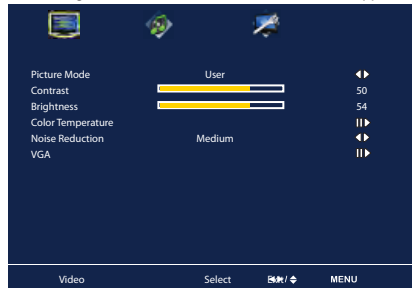
❹   The VIDEO menu includes the following options:

Picture Mode	Cycles among display types: Vivid/Hi-Bright/Cinema/Sport/User
Contrast	Controls the difference between the brightest and darkest regions of the picture
Brightness	Controls the overall brightness of the picture
Saturation	Controls the color intensity
Hue	Controls the difference between the green and red regions of the picture

Sharpness	Increase this setting to see crisp edges in the picture; decrease it for soft edges

Color temperature	Adjusts color components independently to achieve a warm or cool effect: Cool/Middle/Warm/User

- Warm: Increases red tint
- Nature : Increases natural tint
- Cool : Increases blue tint
- User : Allows the user to adjust red, green and blue color component levels independently.

Color Temperature	User	◄►
R Gain		120
G Gain		120
B Gain		120

| Color Temperature | Select | / | MENU |
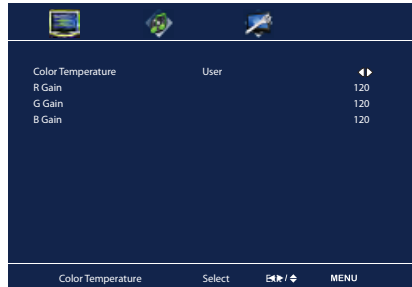
Noise Reduction	Select to reduce the noise level of connected equipment: Off/Low/Medium/Strong.

VGA	Press the **OK** button to enter the VGA Setting:

Auto Adjust		II►
H.Position		72
V. Position		31
Clock		127
Phase		31

| VGA | Select | / | MENU |
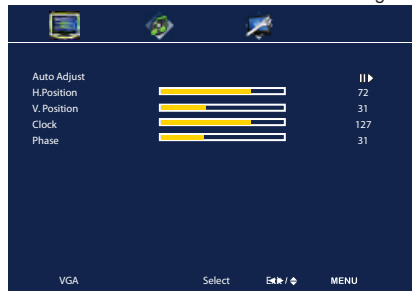
- Auto Adjust — Press the **OK** button to automatically adjust the display settings to optimize performance based on the VGA mode

- H. Position — Adjusts the position of the picture left and right in the window

- V. Position — Adjusts the position of the picture up and down in the window

- Clock — Controls the width of the picture based on the VGA mode

- Phase — Controls the signal phase, which can improve focus clarity and image stability based on the VGA mode

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Customizing the AUDIO Settings

❶ Press the ⏻ button to turn the LCD TV on.

❷ Press the MENU button on the remote control to display the Main menu, and use the ◄► buttons to select the AUDIO.

❸ Use the ▲▼ buttons to highlight an individual AUDIO option, use the ◄► buttons to change the setting, and press the MENU to exit the menu

▪ If the signal source is VIDEO/S-VIDEO/YPbPr/ HDMI/VGA, the AUDIO MENU appears as:

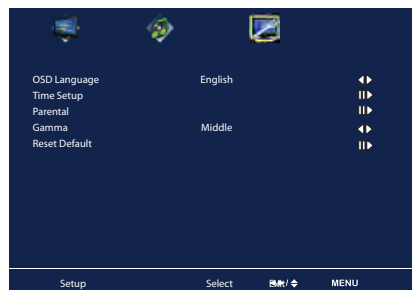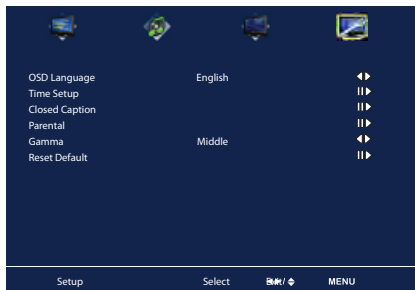▪ If the signal source is TV, the AUDIO MENU appears as:

Bass		50
Treble		50
Balance		0
Sound Effect	Surround	◄►
Speaker	On	◄►

| | | |
| Audio | Select | MENU |

Bass		50
Treble		50
Balance		0
Sound Effect	Surround	◄►
MTS	Stereo	◄►
SPDIF Type	Dolby Digital	◄►
Audio Language	English	◄►
Speaker	On	◄►

| | | |
| Audio | Select | MENU |
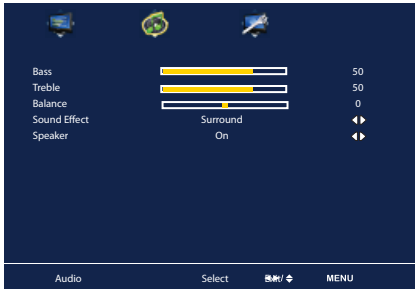
❹ The AUDIO menu includes the following options:

Bass	Controls the relative intensity of lower-pitched sounds
Treble	Controls the relative intensity of higher pitched sounds
Balance	Adjusts the relative volume of the speakers in a multiple speaker system
Sound Effect	Allows selection of an audio-enhancement technique from among the following options: Surround/Live/Dance/Techno/Classic/Soft/Rock/POP/Off
MTS	Allows you to listen to high-fidelity stereo sound while watching TV

▪ Stereo:
  Use separate audio tracks for left and right speakers, if available

▪ SAP:
  You can enjoy a second audio program from the speakers while watching a scene in the original program

▪ Mono:
  Allows mono output (useful when stereo is noisy or inconsistent)

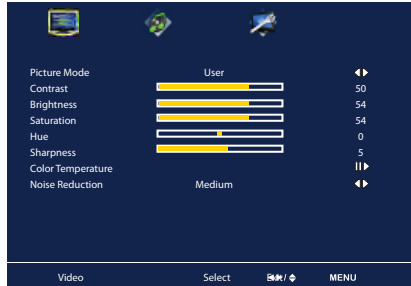| SPDIF Type	Allows to selection of the digital sound format: PCM/OFF/Dolby Digital
	▪ **PCM**: The external audio system is connected to the AUDIO OUT (L/R) of the LCD TV
	▪ **Dolby Digital**: The external audio system is connected to the AUDIO OUT DIGITAL (OPTICAL or COAXIAL) ot the LCD TV
	▪ **OFF**: Select OFF to turn off the external audio system
Audio Language	Allows to select the audio language:English/Spanish/French.
Speaker	Allows to select to turn on or off the TV speakers.

Customizing the TV Settings

➊ Press the ⏻ button to turn the LCD TV on.

➋ Press the MENU button on the remote control to display the Main menu, and use the ◄► buttons to select the TV.

➌ Use the ▲▼ buttons to highlight an individual TV option, use the ◄► buttons changes the setting, and press the MENU exits the menu.

Channel Scan			‖►
Tuner Mode	Cable		◄►
Channel Skip			‖►
Time Zone	Eastern Time		◄►

TV   Select   ⬆⬇   MENU

➍ The TV menu includes the following options:

Channel Scan	Press the OK button, the Channel Scanning automatically creates a list of receivable channels.
Tuner Mode	Allows selection between CATV cable and antenna signal sources: ▪ **AIR** Choose this setting if you are receiving TV channels with an antenna (over the air) ▪ **Cable** Choose this setting if you are receiving TV channels with a CATV (cable TV)
Channel Skip	Allows addition/removal of channels on the channel list. ❶ Press the OK button to display the Channel Skip menu:

2 ABC	Analog	☐
3 DISC	Analog	☐
4	Analog	☐
5	Analog	☐
6	Analog	☐
7	Analog	☐
8	Analog	☐
9	Analog	☐
10	Analog	☐

Channel Skip   Select   ⬆⬇   MENU

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❷ Press the ▼ button to select the desired channel, andpress the OK button repeatedly to select show (☑) or hide(☐)

| Time Zone | Allows selection of regional TV systems of USA: Eastern Time/Indiana/Central time/Mountain Time/Arizona/Pacific Time/Alaska/Hawaii |

Customizing the SETUP Settings

❶   Press the ⏻ button to turn the LCD TV on.

❷   Press the MENU button on the remote control to display the Main menu, and use the
◄► buttons to select the SETUP.

❸   Use the ▲▼buttons to highlight an individual SETUP option, use the ◄► buttons to
change the setting, and press the MENU to exit the menu.

    ▪   If the signal source is TV, the SETUP MENU
      appears as:

    ▪   If the signal source is HDMI/VGA, the SETUP
      MENU appears as:

OSD Language	English	
Time Setup		
Closed Caption		
Parental		
Gamma	Middle	
Reset Default		

Setup   Select   MENU

OSD Language	English	
Time Setup		
Parental		
Gamma	Middle	
Reset Default		

Setup   Select   MENU

    ▪   If the signal source is VIDOE/S-VIDEO/YPbPr,
      the SETUP MENU appears as:

OSD Language	English	
Time Setup		
Closed Caption		
Parental		
Gamma	Middle	
Reset Default		

Setup   Select   MENU
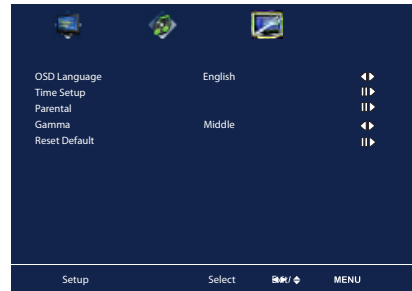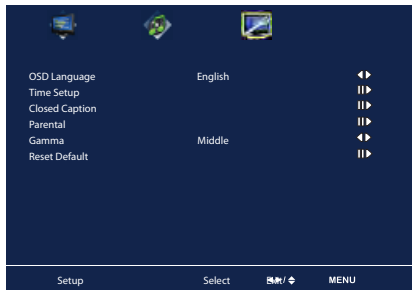
❹   The SETUP menu includes the following options:

OSD Language   Selects to display all on-screen menus in your language of choice:
                       English/French/Spanish

Closed Caption

Allows to select from analog or digital closed caption modes and press the **OK** button. The Closed Captain list appears:

Analog Cloaed Caption	Off		◀▶
Digital Cloaed Caption	Off		◀▶
Digital Caption Style			‖▶

Closed Caption	Select	▣▶ / ◆	MENU

❶ **Analog Closed Caption**:
Press the ◀▶ buttons to select the basic analog closed caption options: OFF/CC1/CC2/CC3/CC4

- CC1 /CC2 /CC3 /CC4:
  Display a printed version of the dialog and sound effects of the program being viewed

- T1/T2:
  Display station information presented using either half or the whole screen
- T3/T4:
  Extended Data Services. For example: Network name, program name, program length, etc.

❷ **Digital Closed Caption**:
Press the ◀▶buttons to select the digital closed caption option.

Note: The setting here will be applied to each DTV channel

❸ Caption Style:
Press **OK** button to customize the settings for digital closed caption option:

Caption Style	Custom		◀▶
Font Size	Large		◀▶
Font Color	White		◀▶
Font Opacity	Solid		◀▶
Background Color	Black		◀▶
Background Opacity	Solid		◀▶
Window Color	Black		◀▶
Window Opacity	Translucent		◀▶

Closed Caption Style	Select	▣▶ / ◆	MENU
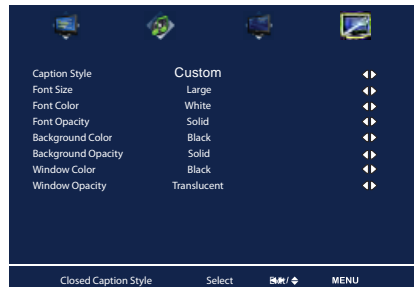
Parental

The Parental Control can be set up to the TV to block Channel, Video Source and to change password.

❶ Use the ▼ button to select the Parental, and press the OK
to display the Parental menu

❷ Use the Program Block function, must enter a four-digit
password. The factory password is 0000

❸ The Parental list appears:

- Program Block   Allows to setup the TV and MPAA Rating
Lock options (refer to "Using the Program
Block Setting").

U.S.TV Ratings		‖▶
U.S. Movie Ratings		‖▶
Canadian English Ratings		‖▶
Canadian French Ratings		‖▶
Block MPAA Unrated	NO	◀▶
Block TV Unrated	NO	◀▶

Parental Block   Select   Exit▶/◆   MENU
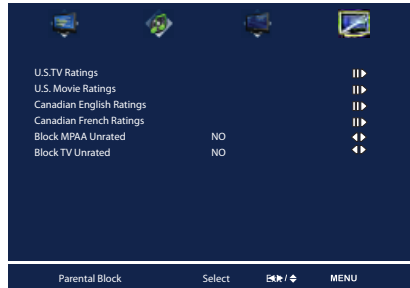
- Channel Block   Allows to block digital channels.

2	ABC	Analog	□
3	DISC	Analog	□
4		Analog	□
5		Analog	□
6		Analog	□
7		Analog	□
8		Analog	□
9		Analog	□
10		Analog	□

Channel Block   Set OK Select Exit▶/◆ MENU

- Input Block   Selects to block a Input source signal

1	TV(CABLE/AIR)	□
2	VIDEO1 (AV)	□
3	VIDEO2 (S-VIDEO)	□
4	VIDEO3 (YPbPr)	□
5	DVD	□
6	USB	□
7	CARD READER	□
8	VIDEO4 (HDMI)	□
9	COMPUTER(VGA)	□
		□

Input Block   Set OK Select Exit◀▶/◆ MENU
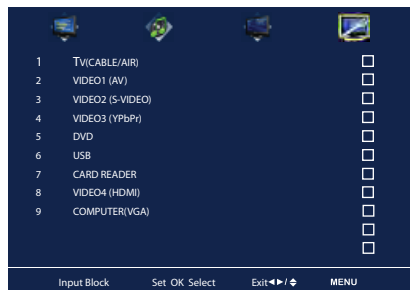
- Change Password   Selects to change your password

Gamma	Allows adjustment of the display's gamma correction, which finetunes both brightness and red/green/blue ratios: On/Off/Middle/Bright/Dark
Reset Default	Press the OK button to restore factory settings

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Using the Program Block Settings

❶ Press the MENU button on the remote control to display the Main menu, and use the ◄► buttons to select the SETUP.

❷ Use the ▼ buttons to highlight **Parental**, and press the OK button.

OSD Language	English	◄►
Closed Caption		‖►
Parental		‖►
Gamma	Middle	◄►
Reset Default		‖►

Setup   Select   Exit/ ⬍   MENU

❸ Use the Parental function, must enter a four-digit password. The factory password is 0000.

Password   ****

Parental   Select   Exit/ ⬍   MENU

Program Block	‖►
Channel Block	‖►
Input Block	‖►
Change Password	‖►

Parental   Select   Exit/ ⬍   MENU
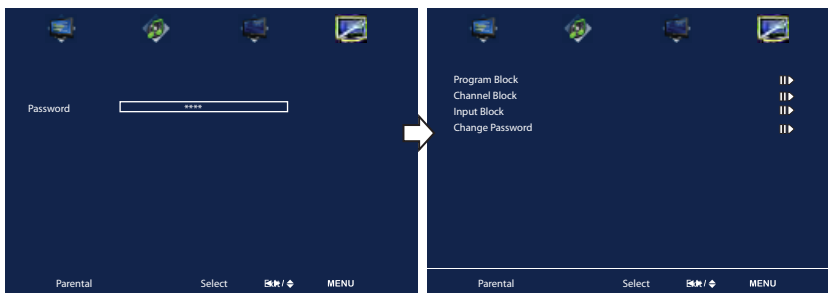
❹ Use the ▼ button to select the Program Block, and press the OK to display the Program Block menu.

U.S.TV Ratings		‖►
U.S. Movie Ratings		‖►
Canadian English Ratings		‖►
Canadian French Ratings		‖►
Block MPAA Unrated	NO	◄►
Block TV Unrated	NO	◄►

Program Block   Select   Exit/ ⬍   MENU

❺ The Parental block menu includes the following options:

U.S. TV Ratings	Selects to activate the TV Rating programs.
U.S. Movie Ratings	Selects to activate the MPAA Rating programs
Canadian English Ratings	Selects to activate the English Rating programs of Canada.
Canadian French Ratings	Selects to activate the French Rating programs of Canada
Block MPAA Unrated	▪ YES: Block all movies that are broadcast without a MPAA rating. ▪ NO: Allows all movies that are broadcast without a MPAA rating
Block TV None Rating	▪ YES: Block all movies that are broadcast without a TV rating. ▪ NO: Allows all movies that are broadcast without a TV rating.

U.S. TV Ratings

The U.S.TV Rating has 2 rating methods: Content-Based Rating and Age-Based Rating.
The U.S.TV Rating includes the following options:
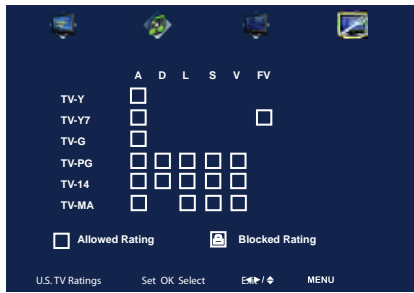
AGE-BASED

RATING	DESCRIPTION
TV-Y	All children
TV-Y7	Directed to children age 7 and older
TV-G	General Audience
TV-PG	Parental Guidance suggested
TV-14	Parents strongly cautioned
TV-MA	Mature Audience only

CONTENT-BASED

RATING	DESCRIPTION
FV	Fantasy violence
D	Suggestive dialogue
L	Strong language
S	Sexual situations
V	Violence
ALL	All contents are blocked

		CONTENT-BASED				
		FV	D	L	S	V
AGE-BASED	TV-Y					
	TV-Y7	✔				
	TV-G					
	TV-PG		✔	✔	✔	✔
	TV-14		✔	✔	✔	✔
	TV-MA			✔	✔	✔

✔ : To block programs by both content and age.

Use the ◄ ► ▲▼ buttons to select the rating you want and press the OK button repeatedly to select BLOCK 🔒 or UNBLOCK . ☐

Canadian English Ratings

The Canadian Englsh Ratings includes the following options:

```
      G              □
      C8+            □
      G              □
      PG             □
      14+            □
      18+            □

      □  Allowed Rating      🔒  Blocked Rating

Canadian English Ratings    Set  OK  Select        Exit ► / ◆      MENU
```
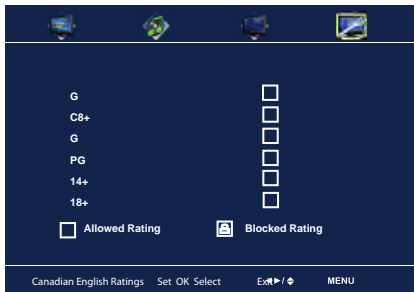
RATING	DESCRIPTION
G	All children
C8+	Children 8 years and older
G	General programming
PG	Parental guidance
14+	Viewers 14 and older
18+	Adult programming

Use the ◄ ► ▲▼ buttons to select the rating you want and press the OK button repeatedly to select BLOCK 🔒 UNBLOCK . □

Canadian French Ratings

The Canadian French Ratings includes the following options:

```
      G              □
      8 ans+         □
      13 ans+        □
      16 ans+        □
      18 ans+        □

      □  Allowed Rating      🔒  Blocked Rating

Canadian French Ratings    Set  OK  Select        Exit ► / ◆      MENU
```
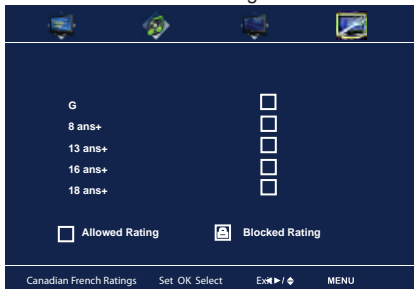
RATING	DESCRIPTION
G	General programming
8 ans+	Not recommended for ages under 8
13 ans+	Not recommended for ages under 13
16 ans+	Not recommended for ages under 16
18 ans+	Programming restricted to adults.

Use the ◄ ► ▲▼ buttons to select the rating you want and press the OK button repeatedly to select BLOCK 🔒 UNBLOCK . □

U.S. Movie Ratings

The U.S. Movie Ratings is used for original movies rated by the Motion Picture Association of America(MPAA) as broadcasted on cable TV and not edited for television.
The U.S. Movie Ratings includes the following options:
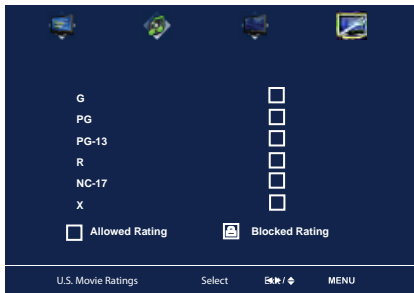
RATING	DESCRIPTION
G	General Audiences. Movie is appropriate for all ages
PG	Parental Guidance Suggested. May contain material not suited for younger viewers
PG-13	Contains content that may not be appropriate for viewers under the age of 13
R	Restricted. Contains adult content, no one under 17 admitted without parent
NC-17	No one 17 and under admitted
X	No one 17 and under admitted

Use the ◄► ▲▼ buttons to select the rating you want and press the OK button repeatedly to select BLOCK 🔒 UNBLOCK . ☐

SPECIFICATIONS

MODEL		1513-TDXB	1913-TDXB	2213-TDXB
LCD Panel	Panel Size	15.4" TFT LCD	19" TFT LCD	22" TFT LCD
	Brightness	230	300	400
	Contrast Ratio	400:1	850:1	700:1
Max. Resolution		1280x800	1400x900	1680X1050
Input Connector	C-VIDEO	1	1	1
	S-VIDEO	1	1	1
	YPbPr	1	1	1
	AUDIO IN(L/R)	2	2	2
	VGA	1	1	1
	HDMI	1	1	1
	VGA LINE IN	1	1	1
	COAXIAL OUT	1	1	1
	HEADPHONE	1	1	1
	VHF/UHF IN	1	1	1
Built-in DVD		1	1	1
USB Connector		1	1	1
SD Card Reader		1	1	1
Power Source		DC 12V, 5A	DC 12V, 5.83A	DC 12V, 5.83A
Power Consumption		48 W, standby < 3 W	55 W, standby < 3 W	60 W, standby < 3 W
Dimension		15.2 w x 13.5 h x 5.2 d inch	18 w x 15.9 h x 5.2 d inch	20.8 w x 17.7 h x 6.3 d inch
WEIGHT		8.4 LB	11.8 LB	13 LB

PROGRAMMING YOUR REMOTE CONTROL

Your remote lets you control four devices with one easy-to-use, compact unit. After installing batteries, you can program the remote to control your Universal TV, VCR or DVD, Cable or Satellite Receivers, Amplifi er or Tuner, and Auxiliary devices. To do so, follow the instructions in "Programming a Device". For best results, please read and follow all the remaining instructions. Keep this guide for future reference.

A Quick Look at Programming a Device

To control VCR or DVD, Cable or Satellite Receivers, Amplifi er or Tuner, and Auxiliary devices, follow these steps. Before proceeding, fi nd the codes for the devices you want to program in "Manufacturer's Codes" on the right side of this page and write them down or highlight them.

> ⚠ To program a DVD Player, TV/DVD Combo, TV/VCR/DVD Combo, portable DVD player, or mobile DVD player, use the DVD key.

❶ Turn on the device (for example, DVD player) and, if needed, load media (for example, a DVD).

❷ Press a device key (VCR/DVD, CBL/ SAT, or AUX).

❸ Press and hold **SET UP** until the red LED blinks twice; then release.

❹ Enter the first five-digit code for your device. The LED blinks once as each digit is entered. If the code is correct, the LED blinks twice.

> ⚠ If the LED does not blink twice, repeat steps 2 to 4 and try entering the code again.

❺ Aim the remote at the device and press ⏻ . The device should turn off. If it does not, repeat steps 3–5, trying each code for your brand until you find one that works. If you cannot find a code that works, see "Searching for Your Code".

❻ Repeat steps 1–5 for the other devices you want to control. For future reference, write down each working device code below:
AUX Code:
CBL Code:
CD Code:
DVD Code:
SAT Code:
TNR Code:
VCR Code:

❼ Press set to save and exit.

Searching for your Code

If your device does not respond to the remote after trying all codes listed for your brand, or if your brand is not listed, try searching for your code:

❶ Press a device key once.

❷ Press and hold **SET UP** until the red LED blinks twice; then release.

❸ Enter **9-9-1**, then the device group number (0= Cable, 1= TV, 2= VCR, 3= Audio). The LED blinks twice.

❹ Aim the remote at the device and press ⏻ . The remote sends IR codes from its library to the selected device, starting with the most popular code first. If the device responds, go to step 7.

❺ If the device does not respond, press CH▲. The remote will try the next code. Continue until the device responds. Press **CH▼** to try the previous code.

❻ To search for other device codes, repeat steps 1 to 5.

❼ Press **SET UP** to save and exit.

Checking the Codes

If you have set up the remote using the procedure in "Searching for Your Code", you may need to find out which four-digit code is operating your equipment.

For example, to fi nd out which code is assigned to your TV:

❶ Press **TV** once.

❷ Press and hold **SET UP** until the red LED blinks twice; then release.

❸ Enter **9-9-0**. The LED blinks twice.

❹ To view the code for the first digit, press 1. Count the LED blinks (for example, three blinks = 3), and write down the number in the appropriate code listing in step 8 under "Programming a Device".

> ⚠ If a code digit is 0, the LED does not blink.

❺ Repeat step 4 for the four remaining digits, using 2 for the second digit, 3 for the third digit, 4 for the fourth digit, and 5 for the fi fth digit.

Changing Volume Lock

The remote comes preset to allow independent volume control of each selected device (Global Volume Unlock). However, you may change the Volume Lock setting to Global Volume Lock so that one device's volume will control volume in all other modes. After that, you can perform Individual Volume Unlock on a selected device to set its volume control for independent operation or Global Volume Unlock to remove all volume locking.

Changing Volume Lock

The remote comes preset to allow independent volume control of each selected device (Global Volume Lock). However, you may change the Volume Lock setting to Global Volume Lock so that one device's volume will control volume in all other modes. After that, you can perform Individual Volume Unlock on a selected device to set its volume control for independent operation or Global Volume Unlock to remove all volume locking.

Locking Volume Control to One Mode (Global Volume Lock)

❶ Press and hold **SET UP** until the red LED blinks twice; then release.

❷ Enter **9-9-3** and then press the mode key for the device you want to control volume (for example,TV). The LED blinks twice. Now when you press VOL+, VOL-, or Mute, the selected device (for example, TV) will control the volume regardless of the current mode.

Unlocking All Volume Control (Restoring Global Unlock)

❶ Press and hold **SET UP** until the red LED blinks twice; then release.

❷ Enter **9-9-3** and then press VOL+. The LED blinks four times.
Volume is now independently controlled for all programmed devices.

Unlocking a Single Device's Volume Control

❶ Press a device key (TV, VCR/DVD, CBL/ SAT, or AUX).

❷ Press and hold **SET UP** until the red LED blinks twice; then release.

❸ Enter 9-9-3 and then press VOL-. The LED blinks four times. Volume is now independently controlled for the selected devices.

Troubleshooting

PROBLEM	SOLUTION
LED does not blink when you press a key.	▪ Replace battery with new AAA size battery.
LED blinks when you press a key, but device does not respond.	▪ Make sure the remote is aimed at your device and is not more than 15 feet away
LED blinks one long blink.	▪ An entry error has occurred (for example, wrong key). Try entry sequence again.
Remote does not control devices or commands are not working properly.	▪ Try all listed codes for the device. Make sure the device operates with an infrared remote control.
CH▲, CH▼, and LAST do not work for your RCA TV.	▪ Due to RCA design from 1983 to 1987, only the original remote control will operate these functions.
No volume on a device.	▪ See "**Changing Volume Lock**".
Channels do not change properly.	▪ If the original remote control required you to press **Enter** to change channels, press **Enter** on this remote after entering the channel number.

Manufacturer's setup codessetup codes

Audio Amplifiers

Manufacturer	Code		Manufacturer	Code
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		Pionee	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	331		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

Cable Converters

Manufacturer	Code		Manufacturer	Code
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		Scientifi c Atlanta	0877, 1877, 0477,
Fosgate	0276			0237, 0003, 0000, 0008
GE	0144		Son	1006
General Instrument	0476, 0810, 0276, 0003		Sprucer	0144
Gibraltar	0003		Starcom	0003
GoldStar	0144		Supercable	0276
Hamlin	0009		Time Warner cable	1877
Hitachi	0003, 0008, 0009		Torx	0003
Insight	0476, 0810		Toshiba	0000
Jerrold	0476, 0810, 0276, 0003		US Electronics	0276, 0003, 0008
Memorex	0000		United Cable	0276, 0003
Mitsubishi	0003		Videoway	0000
Motorola	0476, 1376, 0810, 0276, 1187		Zenith	0000, 0008, 0525, 0899

Audio Amp/Tuners

Manufacturer	Code	Manufacturer	Code
ADC	0531	Kenwood	1313, 1570,1569, 0186, 0042, 0239, 0027, 0077
AMC	1077	Koss	1497, 1366, 0424
AMW	1563, 1615	LG	1293
Aiwa	1243, 1405,1388, 1641, 0189, 0121, 0405, 0158	LXI	0181
Akai	1255, 1512, 0244, 0346	Lasonic	1798
Alco	1390	Lenoxx	1437
Amphion Media Works	1563, 1615	Lexicon	1076
Anam	1609, 1074	Linn	0189
Apex	1257	Liquid Video	1497
Apex Digital	1774, 1257, 1430	Lloyd's	0195
Arcam	1189, 1120	Lloyds	0195
Audiotronic	1189	MCS	0039, 0346
Audiovox	1390, 1627	Magnavox	1189, 1269, 0531,1266, 0189, 1514, 0195, 0391,1120
B & K	0820, 0840, 0701, 0702		
BK	0702		
Bose	1229, 0639, 1253	Marantz	1189, 1269, 0891, 0189, 1289, 1120, 0039
Brix	1602		
Cairn	0189	McIntosh	289
Cambridge Soundworks	1370	Micromega	1189, 0189
Capetronic	0531, 0195	Mitsubishi	1393
Carver	1189, 0189, 0121, 1289, 0042, 0360, 0008	Modulaire	0195
		Myryad	1189
Casio	0195	NAD	0320
Clarinette	0195	Nakamichi	1313, 0097, 1555, 0347
Classic	1352	New Castle	0502
Coby	1389	Nikko	0322
Compaq	1136	Nikkodo	0322
Criterion	1420	Norcent	1389
Curtis Mathes	0014, 0080, 0039	Nova	1389
Daewoo	1250	Onkyo	0842, 0135, 1320, 1298, 1531
Dell	1383		
Delphi	1414	Optimus	1023, 0531, 0014,1074, 0670, 0121, 0186, 0080, 0195, 0738, 0801, 0042, 0181, 0502, 0219, 0158, 0074, 0163, 0177
Denon	1142, 1360, 1306, 0121, 0004		
Emerson	0531, 0195, 0424		
Fisher	1801, 0801, 0042, 0360, 0219, 0008		
		Oritron	1497, 1366
Garrard	0463, 0424	Outlaw Audio	0391
Gateway	1517, 1567	Panasonic	1308, 1518, 1548,1288, 1316, 1763, 1764, 1633, 0309, 0367, 0039
Go Video	1352, 1532		
Grundig	0189		
Harman/Kardon	0110, 1304, 1306, 0891, 0189, 1289	Penney	0195
		Penneys	0195, 0039
Hewlett Packard	1181	Philips	1189, 1269, 0891,1266, 0189, 0391, 1120
Hitachi	1273, 1801		
Initial	1426	Pioneer	1023, 1384, 0531, 0014, 0150, 0630, 0080, 0801, 0244, 0346
Inkel	0491		
Integra	0842, 0135, 1320, 1298		
JBL	0110, 1306	Polaroid	1508
JVC	1058, 1374, 1495, 1811, 0074	Polk Audio	0189, 1289, 1414
		Proscan	1254, 0054
KLH	1428, 1390, 1412	Quasar	0039
Kawasaki	1390	RCA	1023, 1609, 1254, 0531, 1511, 1390, 1074, 0080,

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Audio Amp/Tuners

Manufacturer	Code	Manufacturer	Code
RadioShack	1609, 0181	Sony	1058, 1441, 1258, 1759, 1758, 1622, 1858, 1658, 1558, 1406, 0405, 0474, 1349, 1442, 0158
Realistic	1609, 0121, 0186, 0195, 0042, 0181, 0158, 0163, 0177		
Regent	1437	Soundesign	0670
Revox	0189	Stereophonics	1023
Rio	1869, 1383	Sunfire	1313
Rio Audio	1383	Teac	1267, 1390,1074, 1528, 0463, 0163
Saba	1519		
Samsung	1295, 1500	Technics	1308, 1518,1633, 0309, 0039
Sansui	1189, 0189, 0346		
Sanyo	1801, 1469, 1251, 0801, 0360, 0219	Thorens	1189
		Toshiba	0842, 0135, 0080
Scott	0322, 0163	Venturer	1390
Sears	0195, 0424	Victor	0074
Sharp	0186, 1286	Waitec	1352
Sharper Image	1556	Wards	0014, 0189,0080, 0042, 0054, 0158
Sherwood	1077, 1653, 0491, 0502, 1423		
		XM	1406, 1414
Shinsonic	1426	Yamaha	1023, 0176,1176, 1375, 1331, 1276, 0186
Siemens	0424		
Sirius	1811, 1602, 1627	Yorx	0195
Sonic Blue	1869, 1532, 1383	Zenith	1293, 0857, 0346

Miscellaneous Audio

Manufacturer	Code	Manufacturer	Code
Altec Lansing	1485	Marantz	1491
Cambridge Soundworks	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

Satellite Receivers

Manufacturer	Code	Manufacturer	Code
AlphaStar	0772	GE	0566, 0392
Bell ExpressVu	0775	GOI	0775, 1775
Chaparral	0216	General Instrument	0869
DirecTV	0566, 0639, 1639, 1640, 0247, 0749, 1749, 1142, 1442, 0724, 0819, 1856, 1108,1609, 0392, 1392, 1076, 0099	Goodmans	1246
		HTS	0775, 1775
		Hitachi	1250, 0749, 0819
		Houston tracker	0775
		Hughes	0749, 1749, 1142, 1442
Dish Network	0775	Hughes Network Systems	0749,1749, 1142, 1442
Dish Network System	0775, 1775, 1005, 1505	Innova	0099
Dishpro	0775, 1775, 1005, 1505	JVC	0775, 1775
Echostar	0775, 1775, 1005, 1505	Jerrold	0869
Expressvu	0775, 1775	LG	1226

Manufacturer	Code	Manufacturer	Code
Magnavox	0724, 0722	RCA	0566, 1142, 1442, 0775, 0143, 0855, 0392, 1392
McIntosh	0869	RadioShack	0566, 0775, 0869
Memorex	0724	SKY	0856, 0099
Mitsubishi	0749	Samsung	1142, 1442, 1276, 1108, 1609
Motorola	0869, 0856		
NEC	1270	Sanyo	1219
Netsat	0099	Sony	0639, 1639, 1640
Next Level	0869	Star Choice	0869
Optimus	0724	Star Trak	0772, 0869
Panasonic	0701, 0247	Thomson	0566, 0392
Paysat	0724	Tivo	1142, 1442
Philips	0749, 1749, 1142, 1442, 0775, 0724, 0722, 0819, 1076, 0099	Toshiba	0749, 1749, 0790, 1285, 0819
		UltimateTV	1640, 1392
Pioneer	1142, 1442	Uniden	0724, 0722
Primestar	0869	Voom	0869
Proscan	0566, 0392	Zenith	0856, 1856

TVs

Manufacturer	Code	Manufacturer	Code
A-Mark	0047, 0054	Bell & Howell	0054, 0154, 0093
AOC	0180, 0030	Bell and Howell	0054, 0154, 0093
Accuscan	0047	BenQ	1756, 1032
Action	0030	Bradford	0180
Admiral	0463, 0180, 0047,0054, 0017, 0051, 0093	Brockwood	0030, 0178
		Broksonic	0236, 0463, 0180
Advent	0761, 0783, 0815,0817, 0842	CXC	0180
		Candle	0030
Adventuri	0000	Capehart	0017, 0030, 0178, 0092
Agna	0150	Capetronic	0030
Aiko	0092	Carnivale	0030
Akai	0060, 0702,0672, 0030, 0145, 0812	Carver	0054
		Celebrity	0000
Albatron	0700, 0843	Celera	0765
Alfi de	0672	Changhong	0156,0765, 0783, 0767
Alleron	0030	Cineral	0451, 0092
Ambassador	0150	Citek	0047
America Action	0180	Citizen	0054, 0000, 0451, 0463, 0180,0060, 0030, 0092, 0171
American High	0000, 0060		
Amstrad	0171		
Amtron	0000, 0180	Clarion	0180
Anam	0180	Classic	0030, 0092
Apex	0156, 0748, 0765	Colortyme	0047, 0054, 0017, 0060, 0030, 0178
Apex Digital	0156, 0748, 0765,0879, 0767		
		Commercial Solutions	0047, 1447
Audinac	0180	Conic	0178
Audiovox	0451, 0180, 0092, 0623	Contec	0180
Aumark	0060	Craig	0180, 0171
Aventura	0171	Crosley	0054, 0000, 0180, 0030, 0171
Baysonic	0180		
Beaumark	0017, 0030, 0178	Crown	0093, 0180, 0672
Belcor	0030	Crown Mustang	0672

Manufacturer	Code
Curtis Mathes	0047, 0054, 0154, 0000, 0051, 0451, 0093, 0180, 0060, 0702, 0030, 0178, 0145, 0166, 1147, 1347
Daewoo	0451, 1661, 0672, 0178, 0092, 0623, 1755,1756, 0661
Dayton	0092
Daytron	0030, 0178, 0092
Dell	1454
Denon	0511, 0145
Dumont	0017, 0180, 0178
Durabrand	0463, 0180, 0178, 0171, 1034, 1463
Dwin	0093
ESA	0171, 0812
Eaton	0060
Electroband	0000
Electrograph	1755
Electrohome	0154, 0000, 0150,0030, 0178
Emerald	0178
Emerson	0047, 0154, 0451, 0236, 0463, 0180, 0150, 0178, 0171, 0623
Envision	0030
Fisher	0054, 0154, 0000
Fortress	0093
Funai	0000, 0180, 0171
Futuretech	0180
GE	0047, 0000, 0051,0451, 0060, 0030, 0178, 1147, 1347, 1447
Gateway	1755, 1756
Gemini	0047
Gibraltar	0017, 0000, 0030
Gibralter	0017, 0030Go
A-Mark	0047, 0054
AOC	0180, 0030
Accuscan	0047
Action	0030
Admiral	0463, 0180, 0047, 0054, 0017, 0051, 0093
Advent	0761, 0783, 0815, 0817, 0842
Adventuri	0000
Agna	0150
Aiko	0092
Akai	0060, 0702, 0672, 0030, 0145, 0812
Albatron	0700, 0843
Alfi de	0672
Alleron	0030
Ambassador	0150
America Action	0180

Manufacturer	Code
American High	0000, 0060
Amstrad	0171
Amtron	0000, 0180
Anam	0180
Apex	0156, 0748, 0765
Apex Digital	0156, 0748, 0765, 0879, 0767
Audinac	0180
Audiovox	0451, 0180, 0092, 0623
Aumark	0060
Aventura	0171
Baysonic	0180
Beaumark	0017, 0030, 0178
Belcor	0030
Bell & Howell	0054, 0154, 0093
Bell and Howell	0054, 0154, 0093
BenQ	1756, 1032
Bradford	0180
Brockwood	0030, 0178
Broksonic	0236, 0463, 0180
CXC	0180
Candle	0030
Capehart	0017, 0030, 0178, 0092
Capetronic	0030
Carnivale	0030
Carver	0054
Celebrity	0000
Celera	0765
Changhong	0156, 0765, 0783, 0767
Cineral	0451, 0092
Citek	0047
Citizen	0054, 0000, 0451, 0463, 0180,0060, 0030, 0092, 0171
Clarion	0180
Classic	0030, 0092
Colortyme	0047, 0054, 0017, 0060, 0030, 0178
Commercial Solutions	0047, 1447
Conic	0178
Contec	0180
Craig	0180, 0171
Crosley	0054, 0000, 0180, 0030, 0171
Crown	0093, 0180, 0672
Crown Mustang	0672
Curtis Mathes	0047, 0054, 0154, 0000, 0051, 0451, 0093, 0180, 0060,0702, 0030, 0178, 0145, 0166, 1147, 1347
Daewoo	0451, 1661, 0672, 0178, 0092, 0623, 1755, 1756, 0661
Dayton	0092
Daytron	0030, 0178, 0092

Manufacturer	Code		Manufacturer	Code
Dell	1454		Monivision	0700, 0843
Denon	0511, 0145		Motorola	0054, 0051, 0093, 0150
Dumont	0017, 0180, 0178		Multitech	0180
Durabrand	0463, 0180, 0178, 0171,		NAD	0156, 0178, 0166, 1156,
	1034, 1463			0866
Dwin	0093		NEC	0047, 0030, 0178, 1704
ESA	0171, 0812		NTC	0092
Eaton	0060		NetTV	1755
Electroband	0000		Nikko	0047, 0017, 0154, 0156,
Electrograph	1755			0030, 0178, 0092, 1347
Electrohome	0154, 0000, 0150, 0030,		Nikkodo	0030, 0178, 0092
	0178		Nishi	0030
Emerald	0178		Norcent	0748
Emerson	0047, 0154, 0451,0236,		Nyon	0000
	0463, 0180, 0150, 0178,		Onwa	0180
	0171, 0623		Optimus	0154, 0250, 0093,0180,
Envision	0030			0150, 0030, 0178, 0166,
Fisher	0054, 0154, 0000			0650, 0679
Fortress	0093		Optonica	0093
Funai	0000, 0180, 0171		Orion	0017, 0236, 0463, 0180,
Futuretech	0180			0178, 1463
GE	0047, 0000, 0051, 0451,		PCE	0156, 0060
	0060, 0030, 0178,		Pace	0092
	1147,1347, 1447		Panasonic	0047, 0054, 0154, 0000,
Gateway	1755, 1756			0156, 0051, 0250, 0093,
Gemini	0047			0236, 0150, 0060, 0053,
Gibraltar	0017, 0000, 0030			0030, 0178, 0145,1347,
Gibralter	0017, 0030Go			0650
Video	0060		Panda	0706
GoldStar	0047, 0054, 0030, 0178		Paxonic	0060, 0030
Goodmans	0360		Penney	0047, 0156, 0051, 0060,
Gradiente	0053			0030, 0178, 1347
Logik	0236, 0180		Penneys	0047, 0000, 0156, 0051,
MGA	0150, 0030, 0178			0250, 0060, 0030, 0178
MGN Technology	0178		Petters	1523
MTC	0180, 0060, 0030, 0092		Philco	0054, 0463, 0030, 0145
Magnasonic	0054,0000, 0156, 0093,		Philips	1454, 0054, 0017, 0000,
	0030, 0092			0030, 0171, 1254, 0690
Magnavox	0047, 1454, 0054,0154,		Pilot	0051, 0060, 0030, 0178
	0000, 0051, 0250, 0180,		Pioneer	0166, 0866, 0679
	0060, 0030, 0092, 0171,		Polaroid	0765, 0865, 1523
	0706, 1254, 1755		Portland	0451, 0092
Majestic	0017		Precision	0236, 0180
Marantz	1454, 0054, 0030		Prima	0761, 0783, 0815, 0817
Matsushita	0051, 0250, 0650		Princeton	0700
Maxcent	1755, 1756		Prism	0051, 0250
Maxent	1755		Proscan	0047, 0030, 1347, 1447
Megapower	0700		Proton	0178
Megatron	0047, 0178, 0145		Pulsar	0017, 0092
Memorex	0154, 0463,0180, 0150,		Pulser	0178, 0092
	0060, 0030, 0178		Quartz	0150, 0178
Micro Genius	0150		Quasar	0051, 0250, 0650
Midland	0047, 0017, 0051			
Mitsubishi	0154, 0093, 0150, 1250,			
	0030, 0178, 0836			

Manufacturer	Code
RCA	0090, 1547, 0047, 0054, 0000, 0051, 0093, 0178, 1047, 1147, 1247, 1347, 1447, 0679
Rabbit	0047
RadioShack	0047, 0154, 0180, 0150, 0030, 0178
Realistic	0047, 0154, 0180, 0150, 0030, 0178
Runco	0017, 0060, 0030
SR2000	0154, 0171
SSS	0180
SV2000	0054
SVA	0748, 0865
Sampo	0047, 0030, 1755, 1756
Samsung	0047, 0054, 0017, 0154, 0060, 0702, 0030, 0178, 1060, 0812
Sanky	0060, 0030
Sansui	0463, 0060, 0030
Sanyo	0088, 0047, 0054, 0154, 0000, 0463, 0171, 1755
Saville	0060
Scotch	0178
Scott	0236, 0180, 0030, 0178
Sears	0047, 0054, 0017, 0154, 0000, 0156, 0051, 0093, 0060, 0053, 0030, 0178, 0171, 0166
Sharp	0054, 0093, 0180
Sheng Chia	0093
Shivaki	0178
Siemens	0145
Signature	0054
Signature 2000	0047,0093,0030
Simpson	0030, 0178
Singer	0060, 0092
Solar Drape	0000
Sony	1100, 0017, 0154, 0000, 0150, 0053
Soundesign	0180, 178
Spectravision	0156, 0178
Squareview	0171
Starlite	0236, 0180
Studio Experience	0843
Supreme	0000
Sylvania	0047, 0054, 0154,0000, 0051, 0030, 0178, 0092, 0171
Symphonic	0000, 0180, 0178, 0171

Manufacturer	Code
TMK	0236, 0180, 0178
TNCi	0017
TVS	0463
Tandy	0093
Tatung	0000, 0051, 1756
Teac	0154, 0706
Technics	0047, 0054, 0017, 0051, 0250,1347, 0650
Technovox	0030
Techwood	0051, 0250, 0060
Teknika	0054, 0463, 0180, 0150, 0060, 0178, 0092
Telecolor	0017
Telefunken	0702
Thomas	0047, 0178
Thomson	0047, 1447
Tocom	0156
Toshiba	0154, 0156, 0150,1265, 0060, 0145, 0166, 1145, 1156, 1256, 1356, 1656, 1704, 0650
Totevision	0051
Toyomenka	0178
Truetone	0051, 0250
Ultra	0092
Universal	0047
V	1755, 1756
Vector Research	0030
Victor	1100, 0053
Vidikron	0054
Vidtech	0178
Viewsonic	1755
Viking	0060
Visio	1755, 1756
Vizio	1756
Wards	0047,0054,0017, 0154, 0000, 0156, 0051, 0093, 0236,0180, 0060, 0030, 0178, 0166, 1147, 1347, 1156, 0866
Waycon	0156
Welton	0178
Westinghouse	0451
White Westinghouse	0451, 0236, 0463, 0623
World	0451, 0236, 0463, 0180
XR1000	0154, 0180, 0171
Yamaha	0030
Yorx	0030
Zenith	0047, 0017, 0000, 0093, 0463, 0030, 0178, 0145, 0092, 0171, 1145, 0812

VCRs

Manufacturer	Code	Manufacturer	Code
A-Mark	0000, 0037, 0240	Emerald	0184, 0121
ABS	1972	Emerex	0032
Admiral	0209, 0060, 0048, 0039, 0047, 0104	Emerson	1479, 1278, 0000, 0037, 0184, 0240, 0121, 0043, 0209
Adventura	0000, 0037, 0240		
Adyson	0072	Fisher	0000, 0039, 0047, 0104
Aiwa	0124, 0000, 0037	Fuji	0035, 0033
Akai	0175, 0041	Fujitsu	0000
Alba	0209, 0072	Funai	0000, 0037, 0072
Alienware	1972	GE	1035, 1060, 0807, 0000, 0035, 0060, 0048, 0240
Allegro	0039		
American High	0035, 0081	Garrard	0000
Amstrad	0000	Gateway	1972
Asha	0240	Gemini	0060
Astra	0035, 0240	Genexxa	0000, 0037
Audiovox	0037	Go Video	0614, 0240
Avis	0000, 0072	GoldStar	1237, 0000, 0035, 0037, 0039
Beaumark	0240		
Bell & Howell	0000, 0035, 0048, 0039, 0104	Granada	0081, 0042
		Grundig	0081
Bell and Howell	0000, 0035, 0048, 0039, 0104	HI-Q	0000, 0035, 0047
		HP	1972
Broksonic	1479, 0184, 0121, 0209	Harley Davidson	0000
CCE	0072	Harman/Kardon	0081
Calix	0037	Harvard	0072
Candle	0037	Harwood	0072
Canon	0035	Hewlett Packard	1972
Carrera	0240	Hitachi	0089, 0000, 0035, 0037, 0045, 0042, 0041
Carver	0035, 0081		
Citizen	1278, 0000, 0035, 0037, 0240, 0209	Howard Computers	1972
		Hughes Network Systems	0739, 0042
Classic	0037	Humax	0739
Colortyme	0035, 0060, 0045	Hush	1972
Colt	0000, 0072	Hytek	0000, 0047, 0072I
Craig	0037, 0047, 0240, 0072	TT Nokia	0240, 0041
Criterion	0000, 0072	JVC	0067, 0041
Crosley	0000, 0035, 0081	Janeil	0240
Crown	0072	Jensen	0067, 0041
Curtis Mathes	1035, 0000, 0035, 0060, 0162, 0240, 0041	KEC	0037
		KLH	0072
CyberPower	1972	KTV	0000
Cybernex	0240	Kenwood	0067, 0041
Daewoo	1278, 0037, 0045	Kodak	0035, 0037
Daytron	0037	LG	0037, 0240
Dell	1972	LXI	0000, 0037, 0042, 0067
Denon	0081, 0042	Linksys	1972
Derwant	0041	Lloyd's	0000
DirecTV	0739	Lloyds	0000, 0240, 0072
Dual	003, 0000	Loewe	0081
Dynatech	0000, 0240	Logik	0000, 0240, 0072
Electrohome	0000, 0060, 0037, 0240, 0043, 0209	M Electronic	0240
		MEI	0035
Electrophonic	0037	MGA	0060, 0240, 0043

Manufacturer	Code	Manufacturer	Code
MGN Technology	0240	Metz	0037
MTC	0000, 0240, 0072	Microsoft	1972
MTC	0000, 0240, 0072	Midland	0240
MTX	0000	Mind	1972
Magnasonic	1278, 0000, 0037, 0240, 0072	Minolta	0042
		Mitsubishi	0807, 0000, 0060, 0048, 0047, 0042, 0067, 0043, 0041
Granada	0081, 0042		
Grundig	0081		
HI-Q	0000, 0035, 0047	Motorola	0035, 0048
HP	1972	Movie Walker	0072
Harley Davidson	0000	Multitech	0000, 0039, 0072
Harman/Kardon	0081	NAD	0240, 0104
Harvard	0072	NAP	0035, 0037, 0039, 0033, 0042
Harwood	0072		
Hewlett Packard	1972	NEC	0067, 0104, 0041
Hitachi	0089, 0000, 0035, 0037, 0045, 0042, 0041	Newtech	0072
		Nikko	0037
Howard Computers	1972	Nikkodo	0037
Hughes Network Systems	0739, 0042	Nishi	0240
Humax	0739	Niveus Media	1972
Hush	1972	Noblex	0240
Hytek	0000, 0047, 0072	Northgate	1972
IKEC	0037	Olympus	0035, 0162, 0104
KLH	0072	Onkyo	0222
KTV	0000	Optimus	0000, 0035, 0037,1062, 0048, 0047, 0162, 0240,
Kenwood	0067, 0041		
Kodak	0035, 0037	Orion	1479, 0000, 0184, 0240, 0104, 0121, 0209
LG	0037, 0240		
LXI	0000, 0037, 0042, 0067	Panama	0035
Linksys	1972	Panasonic	0225, 1035, 0000, 0614, 0616, 0035, 1062, 0162
Lloyd's	0000		
Lloyds	0000, 0240, 0072	Penney	1237, 1035, 0035, 0037, 0042, 0240
Loewe	0081		
Logik	0000, 0240, 0072	Penneys	0000, 0035, 0037, 0047, 0081, 0162, 0042, 0067, 0240
M Electronic	0240		
MEI	0035		
MGA	0060, 0240, 0043	Pentax	0042
MGN Technology	0240	Philco	0000, 0035, 0081, 0209
MTC	0000, 0240, 0072	Philips	0000, 0616, 0618, 0739, 0035, 0048, 0081, 0162, 0045, 0209
MTC	0000, 0240, 0072		
MTX	0000		
Magnasonic	1278, 0000, 0037, 0240, 0072	Pilot	0037
		Pioneer	0081, 0162, 0042, 0067
Magnavox	1781, 0000, 0618, 0035, 0037, 0048, 0039, 081, 0240	Polk Audio	0081
		Profi tronic	0240
		Proscan	1060, 0060
Magnin	0035, 008,0240	Protec	0000, 0072
Marant1 Marta	0037	Protech	0072
Matsui	0037, 0209	Pulsar	0039, 0240
Matsushita	0035, 0081, 0162	Pulser	0240
Media Center PC	1972	Quartz	0035, 0047
Memorex	1237, 0000, 0035, 0037, 0048, 0039, 0047, 0162, 0240, 0104, 0209, 0072	Quasar	1035, 0035, 0162
		RCA	1035, 1060, 0807, 0000, 0880, 0035, 0060, 0048, 0045, 0042, 0240

Manufacturer	Code	Manufacturer	Code
RadioShack	0000, 0035, 0037, 0048, 0047, 0162, 0240, 0104	Symphonic	0000, 0240
		Systemax	1972
Radix	0037	TMK	0000, 0240
Randex	0037	TNIX	0037
Realistic	0000, 0035, 0037, 0048, 0047, 0162, 0240, 0104, 0121	Tagar Systems	1972
		Tandy	0000, 0104
		Tatung	0000, 0048, 0081, 0067, 0041
ReplayTV	0614, 0616		
Ricavision	1972	Teac	0000, 0067, 0041
Runco	0039	Technics	0000, 0035, 0060, 0037, 0039, 0162
STS	0042		
SV2000	0000, 0072	Teknika	0000, 0035, 0037
SVA	0000	Telecorder	0240
TT Nokia	0240, 0041	Telefunken	0041
JVC	0067, 0041	Thomas	0000
Janeil	0240	Thomson	0060, 0041
Jensen	0067, 0041	Tivo	0618, 0636, 0739, 1503
Samsung	0000,1014, 0739, 0060, 0045, 0240	Tocom	0240
		Toshiba	0845, 1145, 0000,1503, 1008, 1972, 0045, 0240, 0043, 0209, 0041
Samtron	0240		
Sanky	0048, 0039		
Sansui	1479, 0000,0067, 0240, 0209, 0041, 0072	Totevision	0037, 0240
		Touch	1972
Sanyo	0159, 0000, 0047, 0240, 0104	Trix	0037
		Ultra	0045
Scott	0184, 0045, 0121, 0043	Unitech	0240
Sears	1237, 0000, 0035, 0060, 0037, 0048, 0039, 0047, 0033, 0162, 0045, 0042, 0067, 0104, 0043, 0209, 0041, 0072	Vector	0045
		Vector Research	0184
		Vextra	0072
		Victor	0067, 0041
		Video Concepts	0045
Sharp	0807, 0000,0048, 0047, 0032	Videomagic	0037
		Videosonic	0000, 0240, 0072
Shintom	0000,0039, 0240, 0072	Viewsonic	1972
Shogun	0240	Villain	0000
Siemens	0037, 0104	Voodoo	1972
Signature	0035	Wards	0000, 0035, 0060, 0037, 0048, 0039, 0047, 0081, 0033, 0045, 0042, 0240, 0043, 0041, 0072
Signature 2000	0000, 0035, 0060, 0037, 0048		
Singer	0037, 0240, 0072		
Sonic Blue	0614, 0616	White Westinghouse	000, 0209, 0072
Sony	1232, 0000, 0636,1972, 0035, 0047, 0032, 0033, 0067	World	0209
		XR-1000	0000, 0035, 0072
		XR1000	0000, 0035, 0240, 0072
Soundmaster	0000	Yamaha	0041
Stack 9	1972	ZT Group	1972
Sylvania	1781, 0000, 0035, 0081, 0043	Zenith	1479, 0000, 0037, 0039, 0033, 0209, 0041

DVD Players

Manufacturer	Code	Manufacturer	Code
3D LAB	0503, 0539	Firstline	0651
Advent	1016	Fisher	0670
Aiwa	0641	Funai	0675, 1268, 1334
Akai	0899, 0770, 0705	GE	0522, 0717, 0815
Alba	0672, 0717	GPX	0699
Alco	0790	Gateway	1158, 1073
Allegro	0869	General Electric	0717
Apex	0533, 0672, 1056,1061, 0830, 0794, 0796,0797, 1100, 1020, 0717, 0755	Go Video	0573,1075, 1044,0744, 0717, 0869, 0741,0783, 1158, 1099, 1304,1730, 0833, 0715
Apex Digital	0672, 1056, 1061, 0830, 0794, 0796, 0797, 1100, 1004, 1020, 0717, 0755	Go Vision	1071
Aspire Digital	1168	GoldStar	0801, 0869, 0741
Audiovox	0790, 0717, 1071, 1121, 1122	Goodmans	0790
		Gradiente	0490, 0651
Axion	1071	Greenhill	0717
Blaupunkt	0717	Grundig	0539, 0705
Blue Parade	0571	Harman/Kardon	0582, 0702
Blue Sky	0695, 0699	Hitachi	0573, 0664, 1247
Brandt	0651	Hiteker	0672
Broksonic	0695, 0868	IRT	0783
California Audio Labs	0490	Initial	0717
Celestial	1020	Integra	0571, 0627
Centrex	0672, 1004	JBL	0702
CineVision	0869, 0876, 0833	JMB	0695
Cinea	0831	JVC	0623, 1164, 0558, 0867
Citizen	1003, 1277	Jensen	1016
Clairtone	0571	KLH	1020, 0790, 0717, 1149
Coby	0778, 1107	KLH Digital	0717
Craig	0831	Kawasaki	0790
Creative	0503, 0539	Kenwood	0490, 0534
Curtis Mathes	1087	Kloss	0533
CyberHome	0816, 1023,1117,1024, 1129, 0874	Koss	1061, 0651
		LG	0801, 0591, 0869, 0741
Cytron	0705	Lasonic	0798, 0627
DVD2000	0521	Lecson	1533
Daewoo	0869, 1172,0784,0770, 1169, 0705, 0833	Lenoxx	1127
		Lite-On	1058, 1158
Dansai	0770	LiteOn	1058, 1158, 1416, 1440
Decca	0770	Loewe	0511, 0741
Denon	0490, 0634	Logix	0783
Denver	0778	Magnasonic	0675, 0651
DiViDo	0705	Magnavox	0503, 0539,0675, 0646, 0821
Digitrex	0672		
Disney	0675, 1270	Marantz	0503, 0539, 0675
Dual	0675	McIntosh	1533
Durabrand	1127	Medion	0651
Electrohome	1003	Memorex	0695, 1270, 0831
Emerson	0675, 0821, 1268,0591	Microsoft	0522
Enterprise	0591	Minato	0752
Entivo	0503, 0539	Mintek	0717, 0839
Enzer	0770	Mitsubishi	0521, 1521
		NAD	0591, 0741

Manufacturer	Code	Manufacturer	Code
NEC	0785, 0869	Sansui	0695
Naiko	0770	Sanyo	0695, 0675, 0670, 1334, 0873
Nesa	0717		
NexxTech	1402	Schneider	0783
Norcent	1003, 1107	Schwaiger	0752
Onkyo	0792, 0503, 0627	Sensory Science	1158
Optimus	0571	Sharp	0675, 1256, 0752, 0630
Orion	0695	Sharper Image	1117
Oritron	0651	Sherwood	0770, 1043
Palsonic	0672	Shinsonic	0533, 0839
Panasonic	0503, 0490, 1762,0703, 1362, 1462, 1490, 0571	Slim Art	0784
		Sonic Blue	0573, 0869 ,0783, 1099, 0715
Philips	0503, 0539, 0675,1267, 0646, 0854, 1354, 1260		
		Sony	0533, 1033, 1431, 0864, 1533
Phonotrend	0699		
PianoDisc	1024	Sova	1122
Pioneer	0571, 0525, 0631	Superscan	0821
Polaroid	1061, 1020	Sylvania	0675, 0821, 1268, 0630
Polk Audio	0539	Symphonic	0675, 0821, 1268, 1334
Portland	0770	Tatung	0770
Prima	1016	Teac	0809, 0571, 0790, 0717
ProVision	0778	Technics	0490, 0703
Proceed	0672	Technika	0770
Proscan	0522	Tevion	0651
Prosonic	0699	Theta Digital	0571
Qwestar	0651	Thomson	0511, 0522
RCA	0522, 0571,0822, 1132, 1022, 0790, 0717	Toshiba	0503, 0695, 1045, 1154, 0573, 0539
RadioShack	0571	US Logic	0839
Radionette	0741	USLogic	0839
Realistic	0571	Unimax	0770
Reoc	0752	Universum	0591
Revoy	0699	Urban Concepts	0503, 0539
Rio	0869	Venturer	0790
Rotel	0623	Wesder	0699
Rowa	1004, 0823	Xbox	0522
SVA	0717	Yamaha	0490, 0539, 0545
Saba	0651	Zenith	0503, 0591, 0869, 0741
Sampo	0752	Zeus	0784
Samsung	0490, 0573,0820, 1075, 0899, 1044, 0744	iLo	1348

CARE
• Keep the remote dry. If it gets wet, wipe it dry immediately.
• Use and store the unit only in normal temperature environments.
• Handle the remote gently and carefully. Don't drop it.
• Wipe the remote with a damp cloth to keep it looking like new.   20070524

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