OWNER'S MANUAL
GUIDE D'UTILISATION

SANSUI®

32" CLASS LED-LCD TV WITH DVD PLAYER
LED-LCD TV CATÉGORIE 32 PO ET LECTEUR DVD

SLEDVD329
SLEDVD329A

HDTV HIGH-DEFINITION TELEVISION

HDMI® HIGH-DEFINITION MULTIMEDIA INTERFACE

DVD VIDEO

COMPACT disc DIGITAL AUDIO

DOLBY DIGITAL®

energy ENERGY STAR
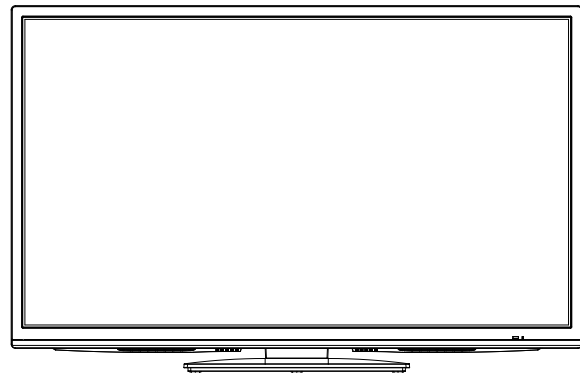
ATTENTION
ATTENTION

If you purchase a universal remote control from your local retailer, please contact the remote manufacturer for the required programming code.

Si vous utilisez avec cet appareil une télécommande universelle (autre que celle vendue avec ce téléviseur), consultez la documentation accompagnant la télécommande universelle afin de connaître le code numérique correspondant au téléviseur.

AIR/CABLE MODE SELECTION
SÉLECTION DU MODE AIR/CABLE

When shipped from the factory, the Signal Type option is set to the "Cable" (Cable Television) mode. If not using Cable TV, set this menu option to the "Air" position.

Lorsque l'appareil sort de l'usine, l'option Signal Type est en mode « Cable » (câblodistribution). Si vous n'utilisez pas la câblodistribution, sélectionnez l'option « Air ».

IF CONTACT WITH CUSTOMER SERVICE IS REQUIRED
PLEASE HAVE THE MODEL NUMBER READY PRIOR TO THE CALL.
SI VOUS DEVEZ COMMUNIQUER AVEC LE SERVICE CLIENTÈLE, PRENEZ NOTE
DU NUMÉRO DE MODÈLE AVANT D'APPELER.
CUSTOMER SERVICE: 1-800-289-0980
SERVICE/SERVICE CLIENTÈLE: 1-800-289-0980

ORION WEBSITE
SITE WEB ORION

FOR INFORMATION ON OUR OTHER PRODUCTS, TO ORDER ACCESSORIES ONLINE,
OR FOR RECYCLING INFORMATION, PLEASE VISIT OUR WEBSITE AT
POUR OBTENIR DES INFORMATIONS SUR NOS AUTRES PRODUITS, POUR COMMANDER DES ACCESSOIRES,
OU LE RECYCLAGE, VEUILLEZ VISITER NOTRE SITE WEB:

www.sansuiproducts.com

Before operating the unit, please read this manual thoroughly.
Avant de faire fonctionner l'appareil, veuillez lire le présent guide attentivement.

ENGLISH

| **CAUTION** |
| RISK OF ELECTRIC SHOCK DO NOT OPEN |

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

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

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

WARNING: TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.
TO PREVENT THE SPREAD OF FIRE, KEEP CANDLES OR OPEN FLAMES AWAY FROM THIS PRODUCT AT TIMES.

CAUTION: TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

WARNING: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Changes or modifications not expressly approved by the partly responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

CAUTION:
THIS DIGITAL VIDEO PLAYER EMPLOYS A LASER SYSTEM.

TO ENSURE PROPER USE OF THIS PRODUCT, PLEASE READ THIS OWNER'S MANUAL CAREFULLY AND RETAIN FOR FUTURE REFERENCE. SHOULD THE UNIT REQUIRE MAINTENANCE, CONTACT AN AUTHORIZED SERVICE LOCATION-SEE SERVICE PROCEDURE.

USE OF CONTROLS, ADJUSTMENTS OR THE PERFORMANCE OF PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

TO PREVENT DIRECT EXPOSURE TO THE LASER BEAM, DO NOT TRY TO OPEN THE ENCLOSURE. RADIATION MAY BE PRESENT WHEN THE ENCLOSURE IS OPENED. DO NOT STARE INTO THE BEAM.

| CLASS 1 LASER PRODUCT |

Location of the required Marking
The rating sheet and the safety caution are on the rear of the unit.

CERTIFICATION: COMPLIES WITH FDA RADIATION PERFORMANCE STANDARDS, 21 CFR SUBCHAPTER J.

Complies with FDA performance standards for laser products except for deviations pursuant to Laser Notice No. 50, dated June 24, 2007.

Record the model number and serial number.

Serial number   **Model number**

IMPORTANT SAFETY INSTRUCTIONS

1) Read these instructions.

2) Keep these instructions.

3) Heed all warnings.

4) Follow all instructions.

5) Do not use this apparatus near water.

6) Clean only with dry cloth.

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

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

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

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

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

12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

S3125A

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

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

15) Apparatus should not be exposed to dripping or splashing, and objects filled with liquids, such as vases, should not be placed on the apparatus.

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

17) Do not overload wall outlets and extension cords, as this can result in a risk of fire or electric shock.

18) Do not push objects through any openings in this unit, as they may touch dangerous voltage points or short out parts that could result in fire or electric shock. Never spill or spray any type of liquid into the unit.

19) If an outside antenna or cable system is connected to the unit, be sure the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges, Section 810 of the National Electrical Code, ANSI/NFPA 70, 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.

EXAMPLE OF ANTENNA GROUNDING AS PER THE
NATIONAL ELECTRICAL CODE

ANTENNA
LEAD IN WIRE

GROUND
CLAMP

ANTENNA
DISCHARGE UNIT
(NEC SECTION 810-20)

ELECTRIC SERVICE
EQUIPMENT

GROUNDING CONDUCTORS
(NEC SECTION 810-21)

GROUND CLAMPS

NEC NATIONAL
ELECTRICAL CODE
S2898A

POWER SERVICE GROUNDING
ELECTRODE SYSTEM
(NEC ART 250, PART H)

20) When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock or other hazards.

21) Upon completion of any service or repairs to this unit, ask the service technician to perform safety checks to determine that the unit is in proper operating condition.

22) Keep your fingers clear of the disc slot as it is closing. It may cause injury.
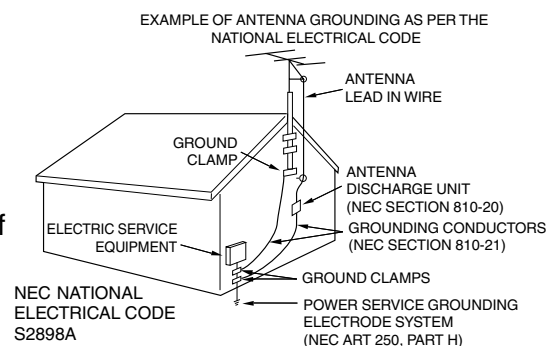
IMPORTANT SAFETY INSTRUCTIONS

23) When you connect the product to other equipment, turn off the power and unplug all of the equipment from the wall outlet. Failure to do so may cause an electric shock and serious personal injury. Read the owner's manual of the other equipment carefully and follow the instructions when making any connections.

24) Reduce the volume to the minimum level before you turn on the product. Otherwise, sudden high volume sound may cause hearing or speaker damage.

25) Do not allow the product to output distorted sound for an extended period of time. It may cause speaker overheating and fire.

26) When you use the headphones, keep the volume at a moderate level. If you use the headphones continuously with high volume sound, it may cause hearing damage.

27) Do not look into the opening of the disc slot or ventilation opening of the product to see the source of the laser beam. It may cause eye damage.

28) Do not use a cracked, deformed, or repaired disc. These discs are easily broken and may cause serious personal injury and product malfunction.

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

30) The socket-outlet must be installed near the unit and easily accessible.

CONDENSATION
Moisture will form in the operating section of the player if the player is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, player's performance will be impaired. To prevent this, let the player stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.
Condensation may also form during the summer if the player is exposed to the breeze from an air conditioner. In such cases, change the location of the player.

HOW TO HANDLE THE LCD PANEL
• Do not press hard or jolt the LCD panel. It may cause the LCD panel glass to break and injury may occur.
• If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.
   If the liquid gets in your mouth, immediately gargle and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

CHILD SAFETY:
It Makes A Difference How and Where You Use Your Flat Panel Display
Congratulations on your purchase! As you enjoy your new product, please keep these safety tips in mind:

THE ISSUE
The home theater entertainment experience is a growing trend and larger flat panel displays are popular purchases. However, flat panel displays are not always supported on the proper stands or installed according to the manufacturer's recommendations.
Flat panel displays that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests or carts may fall over and cause injury.

THIS MANUFACTURER CARES!
The consumer electronics industry is committed to making home entertainment enjoyable and safe.

TUNE INTO SAFETY
One size does NOT fit all. Follow the manufacturer's recommendations for the safe installation and use of your flat panel display.
Carefully read and understand all enclosed instructions for proper use of this product.
Don't allow children to climb on or play with furniture and television sets.
Don't place flat panel displays on furniture that can easily be used as steps, such as a chest of drawers.
Remember that children can become excited while watching a program, especially on a "larger than life" flat panel display. Care should be taken to place or install the display where it cannot be pushed, pulled over, or knocked down.
Care should be taken to route all cords and cables connected to the flat panel display so that they cannot be pulled or grabbed by curious children.

WALL MOUNTING: IF YOU DECIDE TO WALL MOUNT YOUR FLAT PANEL DISPLAY, ALWAYS:
Use a mount that has been recommended by the display manufacturer and/or listed by an independent laboratory (such as UL, CSA, ETL).
Follow all instructions supplied by the display and wall mount manufacturers.
If you have any doubts about your ability to safely install your flat panel display, contact your retailer about professional installation.
Make sure that the wall where you are mounting the display is appropriate to support the weight of the unit/product and wall mount. If you are unsure, contact a professional installer.
A minimum of two people are required for installation. Flat panel displays can be heavy.

SAFETY PRECAUTIONS

The unit emits heat when in operation. Do not place any covers or blankets on the unit, this may cause overheating. Do not block ventilation holes, or set up near radiators. Do not place in direct sunshine. When placing on a shelf leave 4 inches (10 cm) free space around the entire unit.
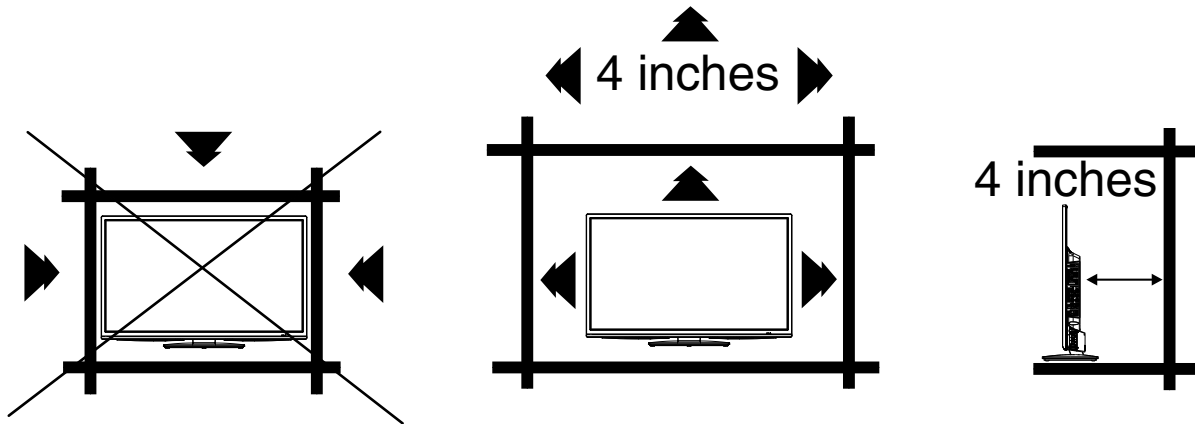
Notes when mounting the TV/DVD on a wall
- If the unit is to be mounted on the wall, contact the retailer where you purchased the TV/DVD for advice, and have the equipment professionally installed. Incomplete or improper installation may cause injury to you, and/or damage to the TV/DVD.
- To hang the television on a wall, remove these screws and then remove a stand. Before performing work spread cushioning over the base area to lay the TV on.
- Before wall-mounting, please check carefully the location of the TV's mounting-holes.

Screws
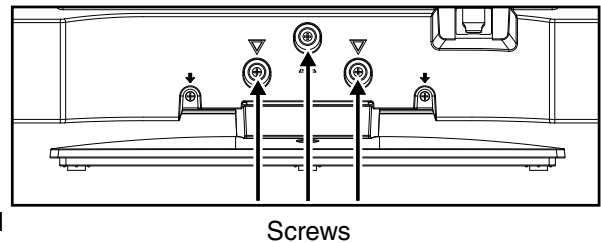
IMPORTANT NOTICE

Possible Adverse Effects on LCD Panel: If a fixed (non-moving) pattern remains on the LCD Panel for long periods of time, the image can become permanently engrained in the LCD Panel and cause subtle but permanent ghost images. This type of damage is NOT COVERED BY YOUR WARRANTY. Never leave your LCD Panel on for long periods of time while it is displaying the following formats or images:

- Fixed Images, such as stock tickers, video game patterns, TV station logos, and websites.
- Special Formats that do not use the entire screen. For example, viewing letterbox style (16:9) media on a normal (4:3) display (black bars at top and bottom of screen); or viewing normal style (4:3) media on a widescreen (16:9) display (black bars on left and right sides of screen).

The following symptoms are not signs of malfunction but technical limitation. Therefore we disclaim any responsibility for these symptoms.
- LCD Panels are manufactured using an extremely high level of precision technology, however sometimes parts of the screen may be missing picture elements or have luminous spots.
  This is not a sign of a malfunction.
- Do not install the LCD Panel near electronic equipment that produces electromagnetic waves. Some equipment placed too near this unit may cause interference.
- Effect on infrared devices – There may be interference while using infrared devices such as infrared cordless headphones.

How to attach the stand

NOTE:
- Unplug the AC cord.
- Before beginning this process, assure that the TV is laid on a clean, safe, and cushioned surface to avoid any damage to the unit.
- Do not touch or press the TV-screen, glass might break under pressure.

Place the TV on its front onto a table.
Align the stand's bottom-plate (supplied) as seen here.
It will fit in only one direction.
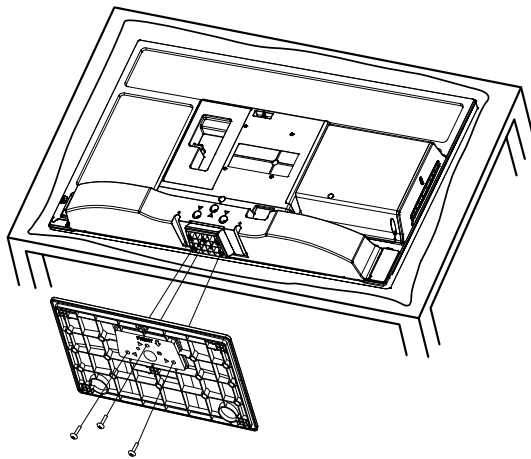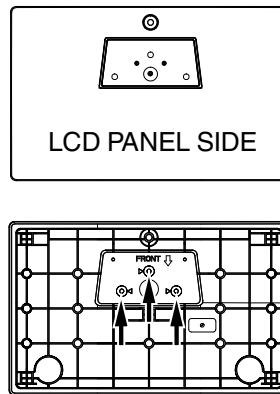Hold the unit and attach the stand slowly, as shown in Figure 1.

LCD PANEL SIDE

Figure 2

Figure 1

Finally secure the bottom-plate with 3 screws (supplied) (4x16mm(5/32x5/8 inches)) as indicated by the arrows in Figure 2.
- Be sure to follow the instructions. Insufficient tightening or incorrect installation of the stand will not support your unit correctly, and could result in damage or injury from tip-over.

How to remove the stand

When you transport this product, remove the stand and pack flat against the back of the unit in the carton. To remove the stand, perform these steps in reverse order.

For wall mounting, the base must be removed. To disconnect the base/stand remove the 3 screws from the back (see page 5).

Features

LED color TV With DVD/CD player

Unique space saving design combines a 32" LED-LCD color TV and a DVD/CD player.

A DVD disc has much more capacity, but is the same size as an audio CD disc. The Picture/Audio quality of a DVD exceeds other software. The picture quality is higher than Super VHS video cassettes. The audio quality is higher than an audio CD. The DVD also has special options; audio language selection, subtitle language selection, or multi-angle, etc.

The DVD PLAYER can playback both audio CDs and MP3/WMA/JPEG CDs.

Compatible with a wide range of DVD audio outputs

Digital Audio Jack (Coaxial)

- When a component with a built-in Dolby Digital decoder is connected, Dolby Digital sound can produce the effect of being in a movie theater or a concert hall.
- Surround standard is different from Dolby Digital. This format is already in use in many theaters. By connecting this unit to a DTS decoder or an AV amplifier with a built-in DTS decoder, the DTS audio of DVD discs recorded in this format can be enjoyed. However, audio will not be output from the analog audio output jacks.
- By connecting this unit to an AV amplifier with a built-in MPEG decoder, the MPEG audio of DVD discs recorded in this format can be enjoyed.
- The Linear PCM sound of a 48 kHz/24 bit through 96 kHz/24 bit exceeds audio CD sound.

Convenience Features

Direct selection of your desired scenes using Title/Chapter/Time/Track - You can playback from the desired scene.

Recalling Up to 12 Scenes - You can program up to 12 scenes in memory and recall the marked scenes.

Frame Advance - The **PAUSE/STILL** and **SEARCH** moves one frame at a time.

Slow Motion - The **SLOW** moves you back and forth through the program by 4 steps of 1/16-1/2 times.

Repeat Playback - You can repeat chapter, track, title, sides or material between two selected points.

Program Playback (Audio CD/MP3/WMA CD) - You can playback tracks in programmed sequences.

Zoom - You can zoom in the selected subject on the screen during playback.

Note: Make sure that discs are suitable for the following functions.

Multi-Language - Maximum 32 language subtitles and maximum 8 language soundtracks can be played back for movies or programs.

Multi-Angle - Pictures of Sports or a Live Concert are recorded with many cameras. When you play such a disc, you can change the angles during playback.

Parental Control - You can limit the playback of scenes or sounds of DVD discs that have a rating level encoded on the disc.

Video Aspect Ratio - You can change the aspect ratio of the screen for your monitor.

TV Features

LED Backlight System - It realize thin profile, low power consumption, eco-friendly Hg-less design and high contrast picture.

Integrated Digital Tuner - You can view digital broadcasts without using a Digital TV Set-Top Box.

Closed Caption Decoder With Full Text Mode - Displays text captions or full screen text on the screen for hearing impaired viewers.

Picture Adjustments Using The Remote Control - The On-Screen display allows precise remote control adjustment of BRIGHTNESS, CONTRAST, COLOR, TINT and SHARPNESS.

Programmable TV Sleep Timer - Operable from the remote control, the TV can be programmed for up to 240 minutes to turn off automatically.

On-Screen 3 Languages Display - You can select one of 3 languages, English, French or Spanish for on-screen programming.

V-Chip - The V-Chip function can read the rating of a TV program or movie content if the program is encoded with this information. V-chip will allow you to set a restriction level.

Contents

Disc

Playable discs

Disc type and logo mark		content
DVD Video	**DVD** VIDEO™ **DVD** VIDEO™	Audio + Video (moving pictures)
CD-DA	**COMPACT** disc DIGITAL AUDIO	Audio
The following discs are also available. • DVD-ROM/-R/-RW/-R DL discs of DVD video format. • CD-ROM/-R/RW discs of MP3/WMA/JPEG.		

CAUTION:
• Only the left types of discs can be played on this unit. DVD-ROM (for PC), CD-ROM (for PC), SVCD, CVD, VCD, etc. cannot be played.
• This unit cannot play an 8 cm disc. It cannot also be played even using a disc adapter.
• If you insert an irregular shaped disc, it may get stuck and cause a malfunction.
• The use of a ring protector or other disc accessories will cause errors.
• This unit is to be used exclusively with the NTSC color system. PAL and SECAM system discs cannot be used with this unit.
• Some discs cannot be played back depending on the recording conditions.

Region Number
Region number (Regional restriction code) is built-in to the unit and DVD video discs.
Region number "1" or "ALL" of DVD video discs can be used on this unit.

Title
When two or more movies are recorded on a disc, the disc is divided into two or more sections. Each section is called a "TITLE".

Chapter
The titles can be subdivided into many sections.
Each section is called a "CHAPTER".

Track
An Audio CD can contain several items.
These are assigned to the tracks.

Removing Disc from Case
Be sure to hold the edge of disc. Do not touch the surface of the disc.
Pick up the disc gently from the case.

• Do not scratch the disc.
• Do not get dirt on the surface of the disc.
• Do not stick a label or adhesive tape on the disc.
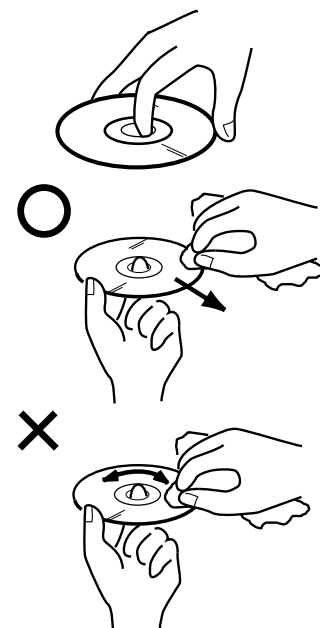• Do not drop or bend the disc.

Storing Disc
• Store the disc in the case to avoid risk of scratches, dirt or damage.
• Do not leave disc exposed to direct sunlight or in hot or humid places.

Cleaning Disc
Wipe the disc with a clean, dry cloth from center to edge.
• Do not wipe the disc in a circular motion.
• Do not use liquid or aerosol cleaners.

Disc

■ Title/Chapter/Track PC-created disc
- You may not be able to play discs recorded using a personal computer or recorder for disc compatibilities, scratches or marks on the disc, dirty lenses of the unit or condensation and so on.
- Discs recorded using a personal computer may not be playable in this unit due to the setting of the application software used to create the disc. In these particular instances, check with the software publisher for more detailed information.

■ Playable files
- ISO 9660 Level 1 or 2 compliant. Romeo and Joliet file systems are both compatible with this player.
- DRM (Digital Rights Management) protected files will not play in this player. For detailed information, please see the instruction manuals or help files that came with your PC and/or software.
- File structure (may differ): Up to 299 folders on a disc; up to 648 files within each folder.
- Folder and file names can be displayed as long as they are typed in alphabets and numbers. If folder and file names are other than alphabets and numbers, they may be replaced and displayed like as " ". Garbled characters may also be displayed in this case.

■ Playing image files
JPEG files recorded in DVD-R/-RW/-R DL and CD-R/-RW can be played.

■ JPEG file compatibility
- Image files should be saved in JPEG format.
- Files recorded in Fuji Color CD, Kodak Picture CD or CD-R/-RW can be played.
- Compatible formats: Baseline JPEG and EXIF 2.2* still image files up to a resolution of 3072 x 2048. *File format used by digital still cameras.
- Files with extensions .jpg or .JPG can be played.
- Progressive JPEG formatted files do not work.
- It may take some more time to start to play larger files than usual.
- JPEG files with different aspect ratio may be displayed with black bands (either vertical or horizontal).

■ Playing Audio files
WMA and MP3 files recoded in DVD-R/-RW, CD-R/-RW can be played.

■ Windows Media Audio (WMA) compatibility
- WMA is an acronym for Windows Media Audio and refers to an audio compression technology developed by Microsoft Corporation.
- You can encode your files by using Windows Media Player Ver.7, 7.1, Windows Media Player for Windows XP or Windows Media Player 9 Series.
- When encoding your files, use only applications approved by Microsoft Corporation. If you use a non-approved application, it may not work properly.
- This unit is compatible with audio files recorded with the following sampling frequency: 32 kHz, 44.1 kHz and 48 kHz.
- It is not compatible with loss-less encoding.
- Files with extensions .wma or .WMA can be played.

■ Playing MP3 (MPEG-1 Audio Layer-3) files
- This unit is compatible with audio files recorded with the following sampling frequency: 32 kHz, 44.1 kHz and 48 kHz.
- Files with extensions .mp3 or .MP3 can be played.
- For the best quality of sound, 128 kbps or higher bit rate is recommended.

■ Copy Control CD (CCCD)
This product is designed to conform to CD-DA (Compact Disc Digital Audio). Any other discs than CD-DA are not guaranteed with their operation and performance in this product.

Note on copyright
- Unauthorized recording of copyrighted television programs, films, video cassettes and other materials may infringe the rights of copyright owners and be contrary to copyright laws.

Parts and functions

Front
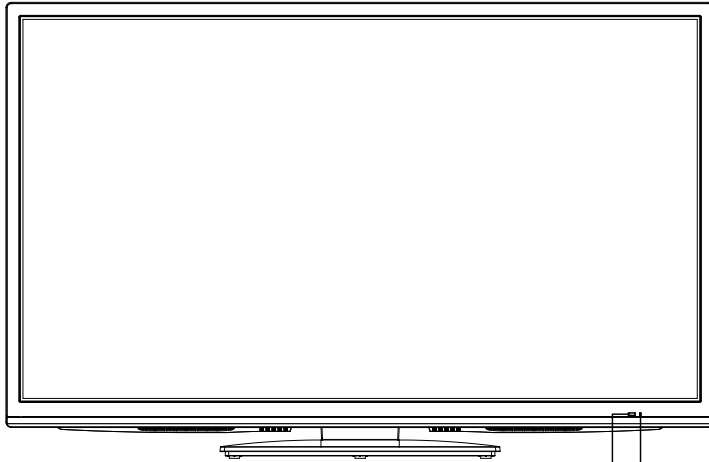
Right side

Remote sensor

Power indicator
Red: Stanby
Green: On
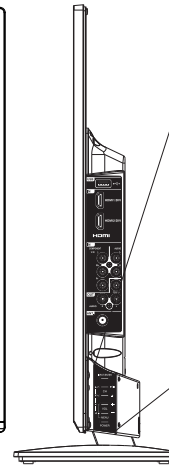
INPUT/ENTER button
CH (CHANNEL) ∧/PLAY (►)
/STOP (■) button/MENU ▲
CH (CHANNEL) ∨/
EJECT (⏏) button/MENU ▼
VOL (VOLUME) **+/–** buttons
/MENU ◄/►
POWER button

To display the menu screen.
Press and hold both **VOL (VOLUME) +/–** at the same
time for 1 second to display the menu screen.
CH (CHANNEL) ∨/∧ buttons, **VOL (VOLUME)**
+/– buttons and **INPUT/ENTER** button can be used
to select the desired setting during the menu screen
operations.

PC MONITOR IN jack

Rear

Right side

USB INPUT

HDMI1/2/DVI IN jack

VIDEO IN jacks
(AUDIO (L/R))

COMPONENT IN jacks

DIGITAL AUDIO
COAXIAL OUT jack
AUDIO OUT jack
ANT. (RF) IN jack
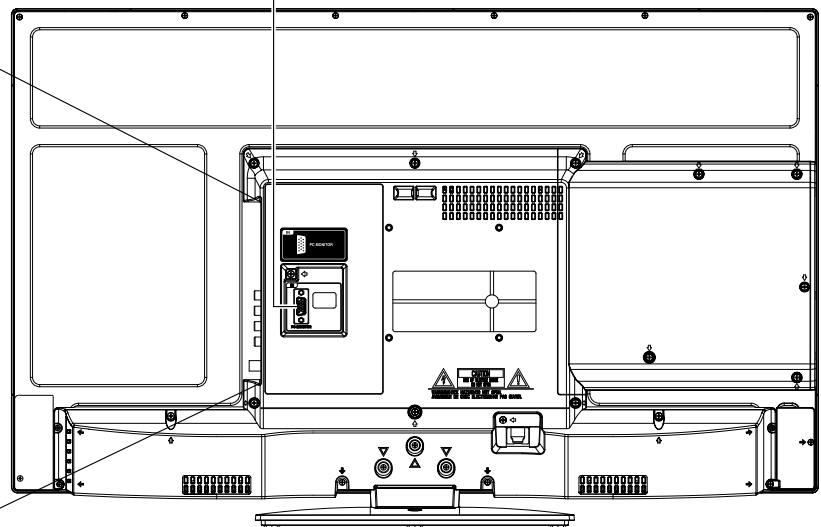
Remote control
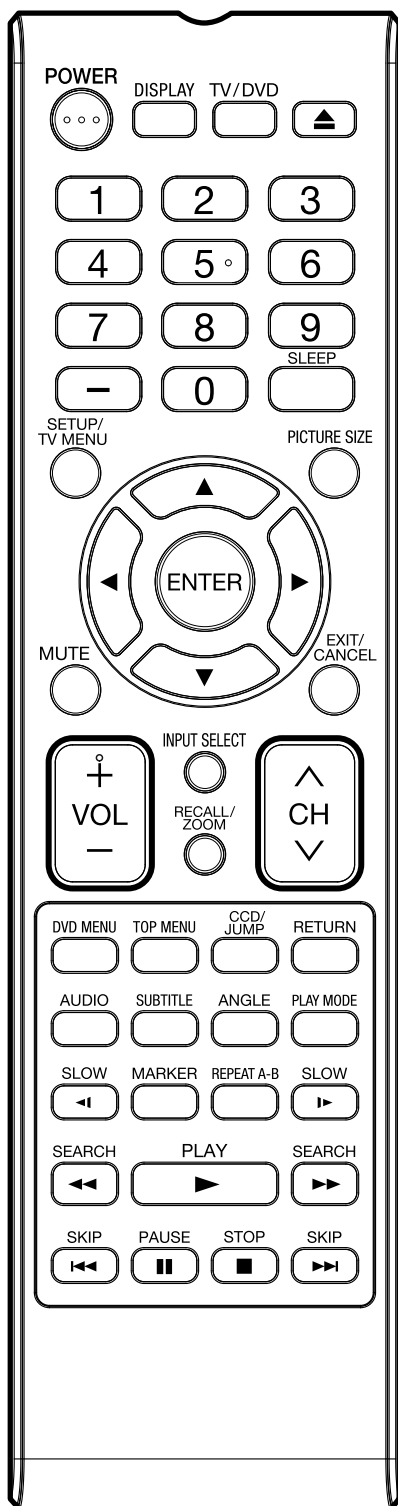
POWER	Power On/Off
DISPLAY	Call TV information Call DVD information
TV/DVD	Switch between TV and DVD
⏏ (EJECT)	Eject a disc
0-9/–	Direct channel selection of TV Input setting Enter a password Input "–" for digital channels
SLEEP	Sleep timer
SETUP/ TV MENU	DVD mode - Call up initial setup mode TV mode - Display menu of TV
PICTURE SIZE	Display Picture size menu
▲▼◄►	Cursor buttons
ENTER	Enter information in the menu
MUTE	Switch off the sound
EXIT/ CANCEL	Exit from On-Screen menu Reset information in the menu
VOL +/–	Adjust volume of TV
INPUT SELECT	Display source selection menu
RECALL/ ZOOM	Switch between present/last channel Zoom
CH ∧/∨	Select channel of TV
DVD MENU	Display DVD menu
TOP MENU	Select title
CCD/ JUMP	Closed Caption Locating desired scene
RETURN	Remove DVD setup menu
AUDIO	Change soundtrack language
SUBTITLE	Set subtitle
ANGLE	Change playback angle
PLAY MODE	Select playback mode
SLOW	Forward/Reverse- slow motion
MARKER	Index
REPEAT A-B	Repeat playback between A and B
SEARCH	Fast Forward/Review playback
PLAY	Playback
SKIP	Skip chapter to forward or reverse direction
PAUSE	Pause CD sound Still picture of DVD
STOP	Stop

Remote control

Inserting Batteries

1 Open the battery compartment cover in the direction of the arrow.
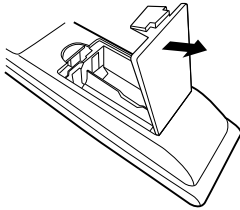
2 Install two "AA" batteries (supplied), paying attention to the polarity diagram in the battery compartment.

3 Replace the compartment cover.
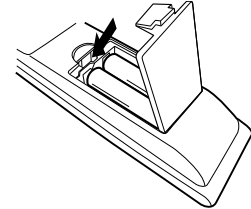
Operation
- Aim the remote control at the remote sensor and press control buttons to operate.
- Operate the remote control within a 30° angle on either side of the remote sensor, up to a distance of approximately 15 feet.

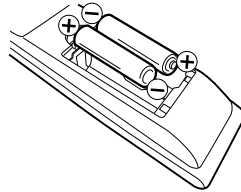Approximately 15 feet

30° 30°
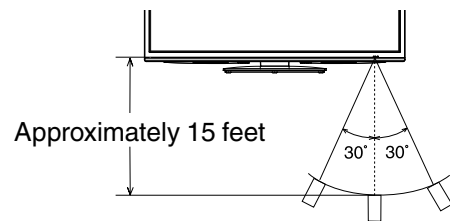
NOTE:
- Do not leave the remote control unit exposed to direct sunlight or in hot or humid places.
- The remote control unit uses infrared beams to transmit signals, so sunlight or fluorescent light on the remote sensor may shorten operating distance.
- Incorrect use of batteries may cause them to leak or burst. Read the battery warnings and use the batteries properly.
- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable, (ni-cad, ni-mh, etc) batteries.
- Remove batteries if the remote control will not be operated for an extended period of time.

Power source

TO USE AC POWER SOURCE

Use the AC polarized line cord provided for operation on AC. Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.

AC Outlet

Wider Hole and Blade

Polarized AC Cord Plug
(One blade is wider than the other.)
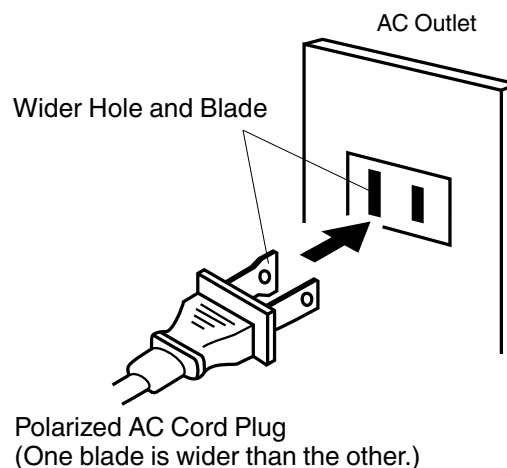
NOTE:
- Never connect the AC line cord plug to other than the specified voltage (120V 60Hz).
  Use the attached power cord only.
- If the polarized AC cord does not fit into a non-polarized AC outlet, do not attempt to file or cut the blade.
  It is the user's responsibility to have an electrician replace the obsolete outlet.
- If you cause a static discharge when touching the unit and the unit fails to function, simply unplug the unit from the AC outlet and plug it back in. The unit should return to normal operation.

Antenna connections

If you are using an indoor or outdoor antenna, follow the instructions below that correspond to your antenna system. If you are using a Cable TV service, see "Cable TV connections".

Combination VHF/UHF Antenna (Single 75 ohm cable)

Antenna Jack

ANT.

75 ohm Coaxial Cable
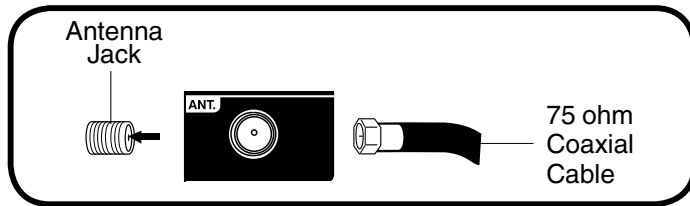
Connect the 75 ohm cable from the combination VHF/UHF antenna to the Antenna Jack.

Cable TV connections

This TV has an extended tuning range and can tune most cable channels without using a Cable TV Converter box. Some cable companies offer "premium pay channels" where the signal is scrambled. Descrambling these signals for normal viewing requires the use of a descrambler device which is generally provided by the Cable TV company.

For subscribers to basic Cable TV service

Antenna Jack

75 ohm Coaxial Cable

ANT.
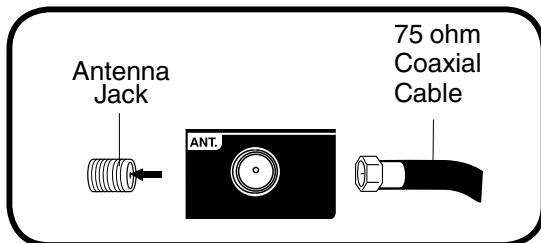
For basic Cable TV service not requiring a Converter/Descrambler box, connect the 75 ohm Coaxial Cable directly to the Antenna Jack on the back of the TV.

For subscribers to scrambled Cable TV service

If you subscribe to a Cable TV service which requires the use of a Converter/Descrambler box, connect the incoming 75 ohm Coaxial Cable to the Converter/Descrambler box. Using another 75 ohm Coaxial Cable, connect the output jack of the Converter/Descrambler box to the Antenna Jack on the TV. Follow the connections shown below. Set the TV to the output channel of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to select channels.

Incoming 75 ohm Cable TV Cable

Converter/ Descrambler

75 ohm Cable to TV

Antenna Jack

ANT.
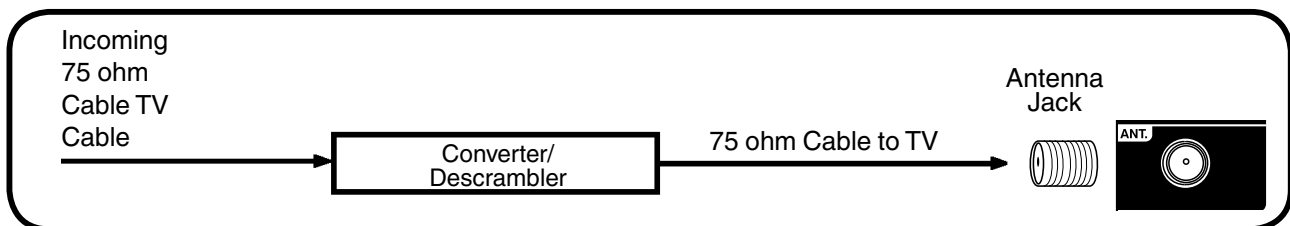
For subscribers to unscrambled Cable TV service with scrambled premium channels

If you subscribe to a Cable TV service in which basic channels are unscrambled and premium channels require the use of a Converter/Descrambler box, you may wish to use a signal Splitter and an A/B Switch box (available from the Cable TV company or an electronics supply store). Follow the connections shown below. With the switch in the "B" position, you can directly tune any nonscrambled channels on your TV. With the switch in the "A" position, tune your TV to the output of the Converter/Descrambler box (usually channel 3 or 4) and use the Converter/Descrambler box to tune scrambled channels.

Incoming 75 ohm Cable TV Cable

Converter/ Descrambler

Splitter

A/B Switch

A
B

75 ohm Cable to TV

Antenna Jack

ANT.
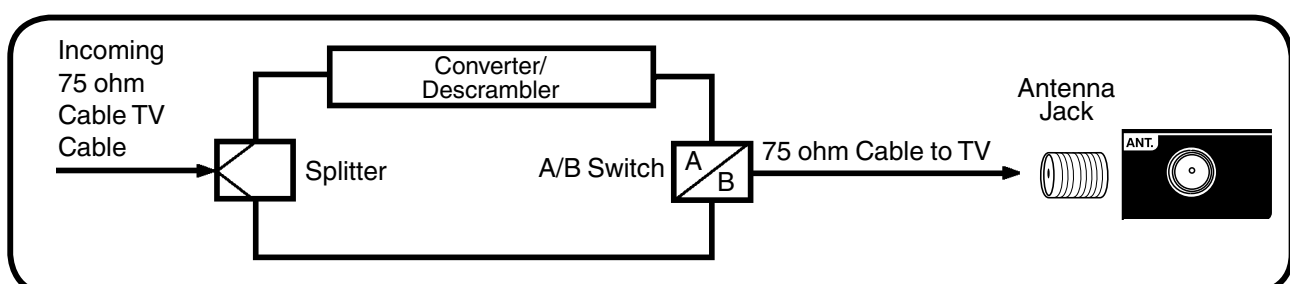
Starting setup

The Setup Wizard menu appears the first time you turn on the TV, and assists you to specify the Air/Cable setting, and program your channels automatically.

IMPORTANT: Make sure that the antenna or cable TV system connection is made!

1 To turn on the TV, press **POWER**. (POWER indicator on the front of the unit changes green. It may take approx. 10 seconds for a picture to appear on screen.) The Setup Wizard function begins.

Setup Wizard		
TV Location	◁ Store	▷
Go to next step		▷

2 Press ▲ or ▼ to select "TV Location", then press ◄ or ► to select "Store" or "Home". This product qualifies for ENERGY STAR In Home mode default setting. Then press ▼ or **ENTER**.
   NOTE:
   • This unit has been preset to STORE brightness. This setting does not qualify under ENERGY STAR. To reduce brightness and energy consumption, change setting to 'HOME'. This setting does qualify under ENERGY STAR.

3 Press ► or **ENTER** to go to next step.

4 Press ◄ or ► to select your time zone, then press ▼ or **ENTER**.
   • In the rare event that you live within broadcast range of two stations in two different time zones, the TV may recognize the wrong station for the auto clock set.

5 Press ◄ or ► to select daylight saving time on or off, then press ▼ or **ENTER**.

6 Press ◄ or ► to select desired time format, then press ▼ or **ENTER**.

7 Press ► or **ENTER** to go to next step.

8 Press ▲ or ▼ to select "Air/Cable", then press ◄ or ► to select signal type that you using, then press ▼ or **ENTER**.

9 Press ► or **ENTER** to go to next step.

10 Auto Scan will begin. After tuning is completed, the TV channel appears on the screen.
   • Depending on the reception condition, it may take up to 30 minutes to complete memorizing digital cable channels. Please allow the process to complete without interruption.

NOTE:
• If you press **MENU** or **EXIT** in the process of "Auto Scan", the Auto Scan stops and changes to normal screen.
• When you make a menu selection, your changes occur immediately. You do not have to press **MENU** to see your changes.

TV operation

1 To turn on the TV, press **POWER**. (POWER indicator on the front of the unit changes green. It may take approx. 10 seconds for a picture to appear on screen.)

2 Adjust the volume level by pressing **VOL +** or **–** . The volume level will be indicated on the screen by brown bars. As the volume level increases, so do the number of bars. If the volume decreases, the number of brown bars also decreases.

3 Set the signal type option to the appropriate position (see "Air/Cable selection" on page 20).

4 Press the **Direct Channel Selection (0-9, –)** buttons to select the channel.
   (If you press only channel number, channel selection will be delayed for a few seconds.)
   TO SELECT ANALOG CHANNELS
   1-9: Press 1-9 as needed. Example, to select channel 2, press **2**, then press **ENTER**.
   10-99: Press the 2 digits in order. Example, to select channel 12, press **1**, **2**, then press **ENTER**.
   100-135: Press the 3 digits in order. Example, to select channel 120, press **1**, **2**, **0**, then press **ENTER**.
   TO SELECT DIGITAL CHANNELS
   Press the first 1-3 digits, then press the – button, followed by the remaining number.
   Example, to select channel 15-1, press **1**, **5**, **–**, **1**, then press **ENTER**.
   • If a channel is selected with only audio content, "Audio Only" will be displayed on the screen.
   • If a channel is selected with a weak digital signal, "No Signal" will be displayed on the screen.
   The same program may be available on either an analog channel or a digital channel. You may choose to watch either format.

VHF/UHF/CABLE CHANNELS

Air	Cable
VHF 2-13	VHF 2-13
UHF 14-69	STD/HRC/IRC 14-36 (A) (W) 37-59 (AA) (WW) 60-85 (AAA) (ZZZ) 86-94 (86) (94) 95-99 (A-5) (A-1) 100-135 (100) (135) 01 (4A)

NOTE:
• If a channel with no broadcast is selected, the sound will automatically be muted.
• It may take a few seconds for a digital channel picture to appear on screen after being selected.

To select the video input source
To view a signal from another device connected to your TV, such as a VCR player, press **INPUT SELECT**, then press ▲ or ▼, then press **ENTER**.

CH ∧ / ∨

Press and release **CH ∧ / ∨**. The channel automatically stops at the next channel set into memory.

For proper operation, before selecting channels, they should be set into the memory. See "Channel setup" on page 20.

DISPLAY

Press **DISPLAY** to display the current information on the screen.

When the TV receives a digital signal, the digital information will appear.

15-1	CC	Service1	Monoscope_480i_1
	SD	480i Audio 2/3	TV-14-D
CH-1		2013/01/01 17:10 17:00-17:30	Good

3_ARTE_Monosco_0820_0000_0030_Audio6_ABCDEFGHIJKLMNOPQ
RSTUVWXYZabcdefghijklmnopqrstuvwxyz_ABCDEFGHIJKLMNOPQR
STUVWXYZabcdefghijklmnopqrs   tuvwxyz_ABCDEFGHIJKLMNOPQRS
TUVWXYZabcdefghijklmnopqrs

- Channel number
- Channel label (if preset)
- V-Chip rating
- Program guide
- Resolution
- DTV Signal condition
- Broadcast program name
- Current date and time
- Audio language
- Closed Caption

Press **DISPLAY** again to clear the call display.

NOTE:
- After a few seconds, DISPLAY screen will return to normal TV operation automatically.

SLEEP

To set the TV to turn off after a preset amount of time, press **SLEEP** on the remote control. The clock will change for each press of the **SLEEP** button (Off, 5 min, 10 min, ..., 240 min). To confirm the sleep timer setting, press **SLEEP** and the remaining time will be displayed for a few seconds. To cancel the sleep timer, press **SLEEP** repeatedly until the display turns to Off.

Quick guide for menu operation

Call menu and for example: Select Menu Language.

1 Press **INPUT SELECT** to select TV mode.

2 Press **MENU**. The TV menu screen will appear.

Picture	Sound	Time	Setup	Lock	Channel

Picture Mode	◀	Standard	▶
Brightness			50
Contrast			50
Color			50
Tint			50
Sharpness			50
Color Temperature	◀	Normal	▶
Advanced Settings			▶
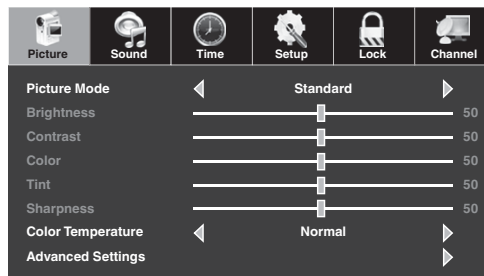
3 Press ◀ or ▶ to select "Setup", then press ▼.

4 Press ▲ or ▼ to select "Menu Language", then press ◀ or ▶ to select the desired language.

…on the following pages the menu can be called in the same way as here.

5 Press **MENU** to return to the previous screen.

NOTE:
- If no buttons are pressed for more than about 30 (depending on your setting) seconds, the menu screen will return to normal operation automatically.
- During TV or external input mode (except PC input mode), if there is no signal reception, the TV will change to standby after approx. 15 minutes (in PC input mode: 5 minutes).

Convenience functions

You can change the default settings by pressing the **MENU** button on your remote, then select the one of the icons at the top of the menu - follow the On-Screen prompts to set your preferences.

Icon	Selected Items			Setup hint
Picture				
	Picture Mode			
		Power Saving		The darker the brightness for power-saving
		Standard		Standard picture quality
		Dynamic		Bright and dynamic picture
		Soft		Soft edge picture setting
		User		Your personal preferences
			Brightness	You can adjust the picture quality to your preference.
			Contrast	• Available only when you selected "User".
			Color	• "Tint" is available only in Analog TV and AV mode.
			Tint	
			Sharpness	
	Color Temperature			Cool (Bluish) / Normal (Neutral) / Warm (Reddish)
	Advanced Settings			
		Aspect Ratio		See page 24.
		Noise Reduction		To set the level of decreasing noises included in the video signal.
			Medium / High / Off / Low	
		DBC		Use this feature to change the Black level automatically according to the brightness of an image. The Black level will become dark in a dark scene. If "ECO" is selected, the power consumption is reduced.
			Off / ECO / On	• DBC is not available in Media mode.
		DLC		DLC (Dynamic Luminance Contrast) function would adjust the luminance follow the average brightness automatically
			Off / On	
		Film Mode		A smoother motion may be obtained by setting the Film Mode to "On".
			Off / On	
		HDMI Mode		Select the HDMI input signal as Video (for video) or Graphic (for PC).
			Video / Graphic	

Convenience functions

Icon	Selected Items			Setup hint
Sound				
	Equalizer Settings			
		Equalizer Mode		
			Standard / Music / Movie / Sports	You can choose a basic equalizer mode. Depending on this setting, the following detail setting is set to default value of each mode.
			User	
			150 / 500 / 1K / 5K / 10K Hz	The setting of this item adjusts the audio level of its frequency corresponding to each setting. • Available only when you selected "User".
			Balance	Adjust the left and right sound channel volume.
	MTS			The multi-channel TV sound (MTS) feature provides high-fidelity stereo sound. MTS also can transmit a second audio program (SAP) containing a second language or other audio information. This item is valid only when the analog broadcast.
		Stereo / SAP / Mono		
	Audio Language			When two or more audio languages are included in a digital signal, you can select one of the audio language. (This function is available only for digital broadcast.)
		English / French / Spanish		
	Digital Audio Output			Select the format for your digital audio output If you have connected an amplifier / receiver to the digital audio jack on your TV.
		Raw / Off / PCM		
	Surround Sound			The dynamic presence and sound created offers a thoroughly enjoyable listening experience.
		Off / On		
	AVL			Volume level can be adjusted automatically by the sound level.
		Off / On		
Time				
	Sleep Timer			Sleep timer switches the TV to standby after a defined period of time. To cancel the Sleep Timer, set to "Off".
		Off / 5 / 10 / 15 / 30 / 60 / 90 / 120 / 180 / 240 min		
	Auto Power Off			When the Set and Remote button operation are not operated with specified period by this setting (1/2/4 Hours), the power status is changed to stand by mode automatically.
		Off / 1 / 2 / 4 Hour		
	Time Zone			Select your local time zone for auto clock feature. You can select Newfoundland, Atlantic, Eastern, Central, Mountain, Pacific, Alaska, Hawaii and Samoa.
	Daylight Saving Time			If you want to activate the daylight saving time, select "On".
		Off / On		
	Time Format			Select the time format.
		12-hour / 24-hour		
	Auto Clock			The Auto Clock function will automatically set the built-in clock (Year, Month, Day and Time) when the TV is connected to an antenna or cable TV system and it is turned off. As the TV searches for a receivable station in your area and it receives a broadcast signal for Auto Clock, the Auto Clock needs several minutes to set itself.
		Off / On		
	Clock			Using the ▲/▼/◄/►, the setting value is changed. • Available only when you selected "Auto Clock" to "Off".

Convenience functions

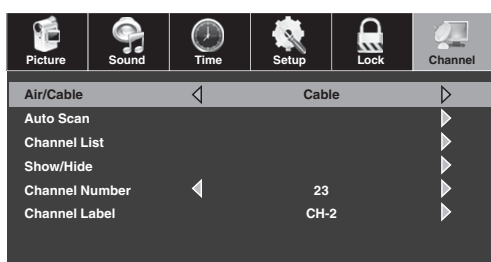| Icon	Selected Items	Setup hint
Setup		
	Menu Language	
	English / Français / Español	You can choose from three different languages (English, Français (French) and Español (Spanish)) for the on-screen displays. Select the language you prefer first, then proceed with the other menu options.
	OSD Timeout	
	5 / 15 / 30 / 45 / 60 Sec.	You can set the display time of OSD Menu.
	Closed Caption	See page 23.
	Over Scan	To adjust the size of the display by removing excess or unattractive when set it to"On".
	Off / On	
	Input Label	The Input Label feature allows you to label each input source for your TV. You can select label from default value or input by yourself with ▲/▼ (alphabet select) / ◄/► (select character / position).
	Default / Antenna / Cable / Satellite / DTV / DVD / Blu-ray / HD-DVD / XBOX / Wii / PS3 / Game / Computer / VCR / DV / Custom (10 characters)	
	PC Settings (available only for PC mode)	
	H-Pos	To adjust the horizontal placing of the image.
	V-Pos	To adjust the vertical placing of the image.
	Clock	Eliminates the vertical (CLOCK) interfering lines.
	Phase	Eliminates the horizontal (PHASE) interfering lines.
	Auto	To adjust the all PC settings automatically.
	Other Settings	
	Audio Only	You can turn off the picture on your TV and listen to the program audio only. To exit audio only mode, press any buttons (except VOL +/-, MUTE) on your remote control or unit.
	Off / On	
	TV Location	Select location of TV. Usually, select "Home".
	Store / Home	
	Restore Default	Select "Yes", then press **ENTER**. Restore Picture, Sound and Time (Sleep Timer and Time Format only) (except "Menu Language") settings to the default factory settings.
	No / Yes	
	Setup Wizard	See page 15. (TV mode only)
Lock		See page 21.
Channel		See page 20.

Channel setup

This TV is equipped with a channel memory feature which allows channels to skip up or down to the next channel set into memory, skipping over unwanted channels. Before selecting channels, they must be programmed into the TV's memory. To use this TV with an antenna, set the signal type option to the Air mode. When shipped from the factory, this menu option is in the Cable mode.

Air/Cable selection

1 Select "Channel ⇒ Air/Cable".

2 Press ◄ or ► to select "Air" or "Cable".

> **Air** - VHF/UHF channels
> **Cable** - CABLE TV channels

Picture	Sound	Time	Setup	Lock	Channel

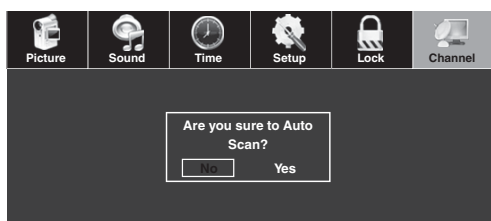| Air/Cable	◁	Cable	▷
Auto Scan			►
Channel List			►
Show/Hide			►
Channel Number	◁	23	►
Channel Label		CH-2	►

NOTE:
- It may take a few seconds for a digital channel picture to appear on screen after being selected.

Auto Scan

1 Select "Channel ⇒ Auto Scan", then press ► or **ENTER**.

Picture	Sound	Time	Setup	Lock	Channel

> **Are you sure to Auto Scan?**
> No   Yes

2 In confirmation window, Press ► to select "Yes", then press **ENTER**. The TV will begin memorizing all the channels available in your area.
- It may take from 15 minutes to 30 minutes to complete memorizing digital cable channels. Depending on the reception condition, a bar display may not advance for several minutes, please be patient.
- If you press **MENU** during search, digital channel search will stop.

NOTE:

- Memorizing channels is best accomplished during evening "PRIMETIME" hours, as more stations are broadcasting digital signals. Memorizing channels can only be accomplished while a station is broadcasting a digital signal to set that channel into memory.
- If you are unsure of the digital channels available in your area, you may visit www.antennaweb.org to receive a list based on your address or zip code. Should you require further assistance you may call our toll-free customer service line at 1-800-289-0980.
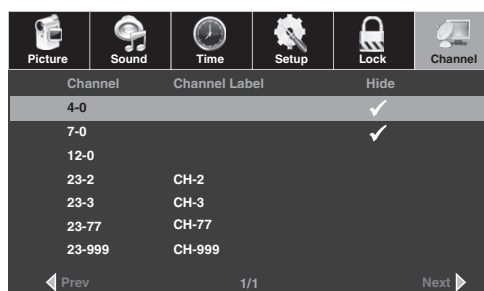- New digital channels may be added to your area periodically, it is recommended to perform the "Auto Scan" procedure regularly.

3 The new channel will be added into the channel memory.

Show/Hide channel

You can select the channel that you want to skip.

1 Select "Channel ⇒ Show/Hide", then press ► or **ENTER**.

2 Press ▲ or ▼ to select the channel that you want to skip.

Picture	Sound	Time	Setup	Lock	Channel

Channel	Channel Label	Hide
4-0		✓
7-0		✓
12-0		
23-2	CH-2	
23-3	CH-3	
23-77	CH-77	
23-999	CH-999	

◁ Prev   1/1   Next ▷

3 Press **ENTER** to assign ✓ mark for unwanted channel.

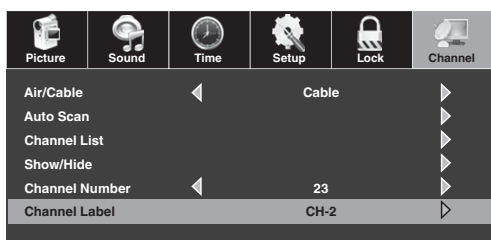4 Repeat steps 2 - 3 for other channels you want to show/hide.

Labeling channels

Channel label appear with the channel number display each time you turn on the TV, select a channel, or press DISPLAY.
You can choose any 7 characters to identify a channel.

To create channel labels

1 Select "Channel ⇒ Channel Number".

2 Press ◄ or ► to select a channel you want to label, then press ▼ to select "Channel Label". Then press ► or **ENTER**.

Picture	Sound	Time	Setup	Lock	Channel

Air/Cable	◄	Cable	►
Auto Scan			►
Channel List			►
Show/Hide			►
Channel Number	◄	23	►
Channel Label		CH-2	▷

3 Press ▲ or ▼ repeatedly until the character you want appears in the first space.

Picture	Sound	Time	Setup	Lock	Channel

C H – 3

If the character which you desire appears, press ►.
You can also change the position which input character by pressing ◄ or ►.
Repeat this step to enter the rest of the characters.

4 Repeat steps 1-3 for other channel. You can assign a label to each channel.

5 When you finish inputting the label name, press **EXIT** to return to the normal screen.

NOTE:
• The channel labels will be reset after "Auto Scan" on page 20.

Setting the Lock

An age limitation can be set to restrict children from viewing or hearing violent scenes or pictures that you may choose to exclude. The restriction applies to "TV" and "MPAA" if this data is transmitted. You may set this restriction separately. To use the Lock function, you must register a password.

To register a password

1 Select "Lock", then press ▼.

2 Press **0000** using **Number buttons(0-9)**. (This is default password.)

Picture	Sound	Time	Setup	Lock	Channel

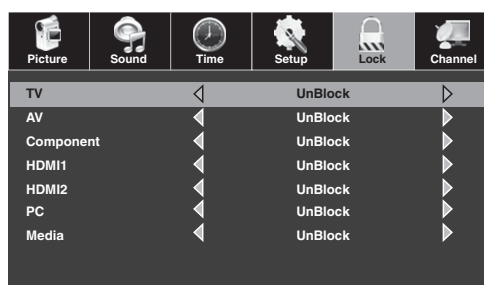| Enter Password	– – – –

"∗" appears instead of the number.

NOTE:
• If you forget the password, contact Customer Service at 1-800-289-0980 for assistance. Your original remote control will be required.
• To avoid forgetting the password, write it down and keep in a safe place.

How to enter the Lock menu

1 Select "Lock" menu, then press ▼.

2 Use **Number buttons (0-9)** to enter your password.

To Lock connected devices

1 In the Lock menu, press ◄ or ► to set "System Lock" to "On".

2 Press ▲ or ▼ to select "Input Block", then press ► or **ENTER**.

Picture	Sound	Time	Setup	Lock	Channel

TV	◁	UnBlock	▷
AV	◄	UnBlock	►
Component	◄	UnBlock	►
HDMI1	◄	UnBlock	►
HDMI2	◄	UnBlock	►
PC	◄	UnBlock	►
Media	◄	UnBlock	►

3 Press ▲ or ▼ to select which device will be blocked, then press ◄ or ► to select "Block".
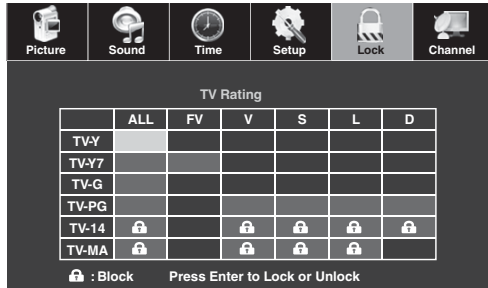
NOTE:
• Blocked device will appear in Source Select window. Enter your password before watching. If you want to use such a device again, you should setting "UnBlock" in step 3.

To set the Lock

1 In the Lock menu, press ◄ or ► to set "System Lock" to "On".

2 Press ▲ or ▼ to select "US Rating", then press ► or **ENTER**.

3 Press ▲ or ▼ to select which rating will be used, then press ► or **ENTER**. Each rating below will appear.

TV Rating

	ALL	FV	V	S	L	D
TV-Y						
TV-Y7						
TV-G						
TV-PG						
TV-14	🔒		🔒	🔒	🔒	🔒
TV-MA	🔒		🔒	🔒	🔒	

🔒 : Block   Press Enter to Lock or Unlock

You can set the rating using age level and genre.

Age:
TV-Y : All children
TV-Y7 : 7 years old and above
TV-G : General audience
TV-PG : Parental guidance
TV-14 : 14 years old and above
TV-MA : 17 years old and above

Genre:
All : General
FV : Fantasy Violence
V : Violence
S : Sex
L : Language
D : Dialogue

Press ▲/▼/◄/► to select the desired rating, then press **ENTER**.

MPAA Rating

Off : None
G : All ages
PG : Parental guidance
PG-13 : Parental guidance less than 13 years old
R : Under 17 years old parental guidance suggested
NC-17 : 17 years old and above
X : Adult only

Press ◄/► to select the desired rating.

4 Press **EXIT** to return to the normal screen. Lock function is activated now.

NOTE:
• The Lock function is activated only on programs and input sources that include a rating signal.

To change the password

1 In the Lock menu, press ▲ or ▼ to select "Change Password", then press ► or **ENTER**.

2 Enter a current password using **Number buttons (0-9)**.

3 Enter a new password using **Number buttons (0-9)**.

4 Enter the same password again to confirm. The password is now registered.

Downloading the additional Lock rating system
As a supplement to the standard Lock rating system, your television will be able to download an additional rating system, if such a system becomes available in the future.

To download the additional Lock rating system (when available)

1 In the Lock menu, press ◄ or ► to set "System Lock" to "On".

2 Press ▲ or ▼ to select "RRT Setting", then press ► or **ENTER**.

3 If the TV is not storing the additional rating system, the TV will begin downloading it, which may take some time to be completed.

4 Set your preferred content rating limits for the additional rating system.

NOTE:
• You can only download the additional Lock rating system when your TV is receiving a digital signal.
• When you download the additional rating system, it may take some time for the download to occur.
• The Lock rating information and system are not determined or controlled by the TV.
• The standard Lock rating system is available whether your TV is receiving a digital signal or not, and will block both analog and digital programs. To set the restriction level using the standard Lock rating system, select "US Rating" in step 2.
• The downloadable Lock rating system is an evolving technology, and availability, content, and format may vary.

To clear the RRT Setting

1 In the Lock menu, press ◄ or ► to set "System Lock" to "On".

2 Press ▲ or ▼ to select "Reset RRT", then press ► or **ENTER**. The confirmation window will appear.

3 Press ► to select "Yes", then press **ENTER**. Your RRT Setting will clear.

Closed Caption

WHAT IS CLOSED CAPTIONING?

This television has the capability to decode and display Closed Captioned television programs. Closed Captioning will display text on the screen for hearing impaired viewers or it will translate and display text in another language.

Captions: This Closed Caption mode will display text on the screen in English or another language. Generally, Closed Captions in English are transmitted on CC1 and Closed Captions in other languages are transmitted on CC2.

Text: The Text Closed Caption mode will usually fill 1/2 of the screen with a programming schedule or other information.

1 Select "Setup ⇒ Closed Caption", then press ► or **ENTER**.

2 Press ◄ or ► to set "CC Mode" to "CC On" or "CC on Mute".
CC On: Captions will be displayed on the screen.
CC on Mute: Only when you press **MUTE**, captions will be displayed.
CC Off: Captions will not be displayed on the screen.

3 Press ▲ or ▼ to select "Analog CC" or "Digital CC".

When you select "Analog CC", you can choose from CC1~4, Text1~4.

When you select "Digital CC", you can choose from Service1~6 and Off.

4 Press ◄ or ► to select the desired Closed Caption mode for both Digital and Analog Captions.

NOTE:
• Depending on the broadcast signal, some Analog Captions will function with a Digital broadcast signal. This step prevent that two kind of captions are overlapping.

NOTE:
• If the program or video you selected is not closed-captioned, no captions will display on-screen.
• If text is not available in your viewing area, a black rectangle may appear on-screen. If this happens, set the CC Mode to "CC Off".
• When selecting Closed Captions, the captioning will be delayed approx. 10 seconds.
• If no caption signal is received, no captions will appear, but the television will remain in the Caption mode.
• Misspellings or unusual characters may occasionally appear during Closed Captioning. This is normal with Closed Captioning, especially with live programs. This is because during live programs, captions are also entered live. These transmissions do not allow time for editing.
• When Captions are being displayed, on-screen displays, such as volume and mute may be seen but may interfere with Closed Captions.
• Some cable systems and copy protection systems may interfere with the Closed Captioned signal.
• If using an indoor antenna or if TV reception is very poor, the closed caption decoder may not appear or may appear with strange characters or misspelled words. In this case, adjust the antenna for better reception or use an outdoor antenna.

• CC Mode will be change to"CC Off","CC On" or "CC on Mute" by each pressing **CCD** on the remote control.

CC options

When you have selected "Custom" as the display method, you can adjust the various setting listed below as follows:

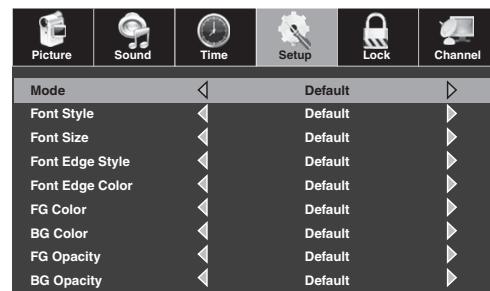This feature is designed to customize Digital Caption only.

1 Select "Setup ⇒ Closed Caption", then press ► or **ENTER**.

2 Press ◄ or ► to set "CC Mode" to "CC On" or "CC on Mute".

3 Press ▲ or ▼ to select "Option", then press ► or **ENTER**.

4 Press ▲ or ▼ to select "Mode", then press ◄ or ► to select "Custom".

5 Press ▲ or ▼ to select the desired item, then press ◄ or ► to change the setting.

	Picture	Sound	Time	Setup	Lock	Channel
Mode		◁		Default		▷
Font Style		◁		Default		▷
Font Size		◁		Default		▷
Font Edge Style		◁		Default		▷
Font Edge Color		◁		Default		▷
FG Color		◁		Default		▷
BG Color		◁		Default		▷
FG Opacity		◁		Default		▷
BG Opacity		◁		Default		▷

You can select from among the following items and parameters.

Font Style:
Select display font style.
Font Size:
Select display font size.
Font Edge Style:
Select display font edge style.
Font Edge Color:
Select display font edge color.
FG Color:
Select foreground color.
BG Color:
Select background color.
FG Opacity:
Select foreground opacity level.
BG Opacity:
Select background opacity level.

NOTE:
• You cannot set both "FG Color" and "BG Color" as a same color.

Aspect Ratio

You can change to a variety of picture sizes—Wide, Zoom, Cinema, Normal, Full 100% (for PC) and Point to Point (for PC).

Selecting the picture size

1 Select "Picture ⇒ Advanced Settings ⇒ Aspect Ratio".

2 Press ◄ or ► to select the desired picture size, as described below.

NOTE:
- Selectable picture sizes may vary depending on the input source or broadcast signal.
- You can be select desired size of picture by pressing **PICTURE SIZE** on the remote control.

Normal
In some cases, this image will display the size of standard 4:3 with a black side bar.
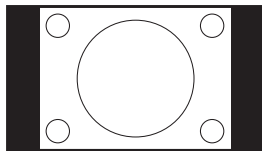

Wide (for 4:3 format programs)
To fill the screen, the right and left edges are extended, however; the center of the picture remains near its former ratio.
The top and bottom edges of the picture may be hidden.
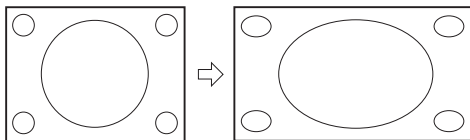
Zoom (for letter box programs with subtitles)
To fill the width of the screen, it is extended horizontally. However; it is only slightly extended at the top and the bottom.
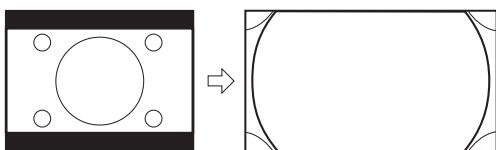
The top and bottom edges of the picture may be hidden.
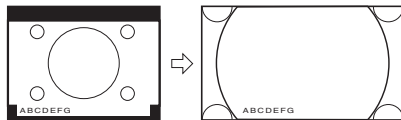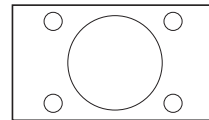

Cinema (for letter box programs)
The entire picture is uniformly enlarged—it is stretched the same amount both wider and taller (retains its original proportion).

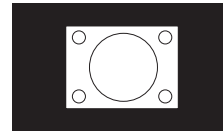The top and bottom edges of the picture may be hidden.

Full 100% (for PC mode only)
Full will display the picture at the maximum size.

Point to Point (for PC mode only)
Detects the resolution of the signal of the image and it will be shown on the screen with same amount of pixels.

Media Playback

**You can enjoy viewing pictures and movies from your USB storage device.**

1 Connect the USB storage device into the USB Input terminal.

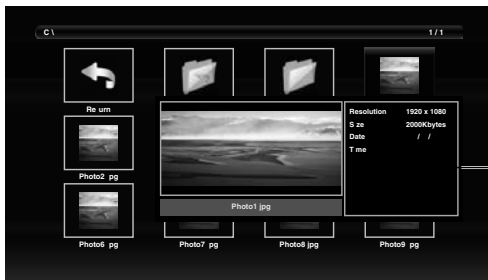**2** Press **INPUT SELECT** then press ▲ or ▼ to select "Media", then press **ENTER**.

NOTE:
• Do not disconnect a USB storage device while it is being accessed. Doing so can damage the device or the files stored on the device. You can safely connect or disconnect the USB storage device when the TV is not in media mode.
• Back up all the data in the USB storage device in case if data was lost due to unexpected accident. We do not assume any liability for the losses by misuse or malfunction.
• Not all USB storage devices are compatible with this TV.
• The character that exceeds the display area is not displayed.
• Do not use USB extension cable.
• Playable files are JPEG (.jpg/.jpeg) and Motion JPEG (.avi (MJPEG format)).

Media Browser

Media Selection
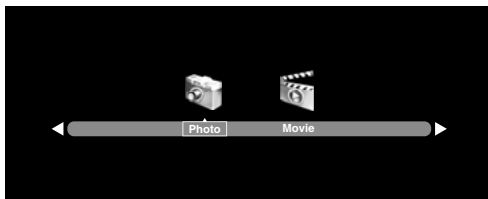
File Selection

Information window

NOTE:
• The content will change in accordance with each media setting screen.

Playback files

1 Press ◄ or ► to select Photo or Movie at Media Selection and press **ENTER**.

2 Press ◄ or ► to select "C", then press **ENTER**.

3 Select folder or file with ▲/▼/◄/►, and then start the playback with **ENTER**.

You can playback the files with the following remote control buttons.

Button	Action
ENTER	Press to start the playback. Press to open the folder. Press to open the operation window.
❚❚	Press to pause the playback.
►	Press to start the playback or slideshow.
■	Press to stop the playback.
►►❙	During the playback, press to select the next file.
❙◄◄	During the playback, press to select the previous file.

Details of operation commands

Icon	Operation
▶ II	Play / Resume playback. Pause.
I◀ ▶I	Skip file to reverse / forward direction.
■	Stop.
♺	Repeat playback. Press **ENTER** repeatedly to select desired repeat option.
▤	Show the playlist. Press ▲ or ▼ and **ENTER** to select the playback
ⓘ	Show the file information.
↺ ↻	Rotate the image.
⤢ ⤡	Zoom in / out.
◆	Move the frame from the center position.
◀◀ ▶▶	Review / Fast playback.
♺AB	Select start point, then select end point. Repeat material between two selected points.
I▶	Slow-motion Playback.
II▶	One frame is advanced each time select this command.
◕	Direct jump by desired time.

DVD Operation

The following pages describe the setup/ operation in DVD mode.

Preparation
Before DVD/CD operation, please make the following preparations.

1 Insert the AC cord plug into a standard 120V 60Hz polarized AC outlet.
   - If the AC cord plug is plugged in for the first time, wait for about 5 seconds before pressing **POWER**.

   NOTE:
   - When connecting to other equipment, unplug the unit from the AC outlet.

2 Press **POWER** on the unit or on the remote control to turn on the unit. The POWER indicator will change to green.
   - When using an amplifier, switch on the amplifier.

3 Press **TV/DVD** to select DVD mode.
   The DVD startup screen will appear on the screen.
   - If the DVD is not operated, the unit will automatically shut itself after 15 minutes.

NOTE:
- **If the unit does not operate properly:**
  Static electricity, etc., may affect the player's operation. Disconnect the AC power cord once, then connect it again.
- **About inserting disc:**
  If the unit is slanted or moved while inserting a disc, the disc may be damaged.

Status display of disc

Press **DISPLAY**. The status display of the disc will appear on the screen.

- Display messages may change each time you press **DISPLAY** for some discs or files.

To make the status display screen disappear, press **DISPLAY** again.

Playback procedure

1 Press **TV/DVD** to select DVD mode.

2 Place the disc in the disc slot with the label side facing forward. (If the disc has a label.) Hold the disc without touching either of its surfaces, align it with the guides, and place it in position.
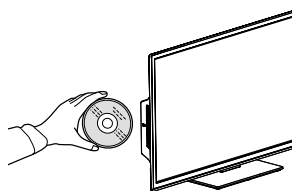
3 On the screen, "⏏" changes to "Loading" and then playback will commence.
   - A menu screen may appear on the TV screen, if the disc has a menu feature. In this case, press ▲, ▼, ◄, ► or **ENTER** to operate a menu feature.

4 Press **STOP (■)** to end playback.
   - The unit can record where you stop a video, but it depends on the disc you are using. Press **PLAY (►)** to resume a playback point. The unit can store the stopped points of the last five discs that you have played. When one of these discs is reloaded, you can resume playback from where you stopped playing last time.
   - If you press **STOP (■)** again ("Resume off" appears on the screen) the unit will clear the stopped point.
   - You cannot save a stopped point for some discs. If a number of discs played and stored in the unit exceeds five, a new memory will overwrite the oldest stored memory.

5 Press ⏏ **(EJECT)**.
   Remove the disc and then press **POWER**.
   The unit turns off.
   - When you eject the disc, you may hear some mechanism noise, but it is not a malfunction.

NOTE:
- If a non-compatible disc is loaded, "Can't play disc" or "Incompatible disc region number Can't play disc" will appear on the TV screen according to the type of loaded disc. In this case, check your disc again (see page 9).
- Some discs may take a minute or so to start playback.
- A prohibition message "Depending on the disc, this operation may be prohibited" or "This operation can't be performed" may appear on the screen. This message means either the feature you tried is not available on the disc, or the unit cannot access the feature at this time. This does not indicate a problem with the unit.
- When you insert a single-faced disc label backwards (i.e. the wrong way) "Loading" will appear on the display and then "Can't play disc" will be displayed.
- Some playback operations of DVDs may be intentionally fixed by software producers. Since this unit plays DVDs according to the disc content recorded, some playback features may not be available. Also refer to the instructions supplied with the DVDs.

Special playback

Fast Forward Playback
Press **SEARCH (►►)** during normal playback.
Each press of **SEARCH (►►)** will increase the speed of the search.
• To resume normal playback, press **PLAY (►)**.

Review Playback
Press **SEARCH (◄◄)** during normal playback.
Each press of **SEARCH (◄◄)** will increase the speed of the search.
• To resume normal playback, press **PLAY (►)**.

Still Playback
Press **PAUSE/STILL (II)** during normal playback to pause playback.
• To resume normal playback, press **PLAY (►)** or **PAUSE/STILL (II)**.

Frame Advance
Press **PAUSE/STILL (II)** during normal playback.
One frame is advanced each time you press **SEARCH (◄◄)** or **SEARCH (►►)**.
• To resume normal playback, press **PLAY (►)**.

Slow-motion Playback
Press **SLOW (I►)** or **SLOW (◄I)** during normal playback or still playback.
Each press of **SLOW** will change the speed of the slow.
• To resume normal playback, press **PLAY (►)**.
• To resume the still playback, press **PAUSE/STILL (II)**.

Locating a chapter or track
Press **SKIP (►►I)** Forward or **SKIP (I◄◄)** Reverse during playback to locate a chapter/track that you want to watch.
Each time you press the button, a chapter or track is skipped.

NOTE:
• The TV/DVD is capable of holding a still video image or On screen display image on your television screen indefinitely. If you leave the still video image or On screen display image displayed on your TV for an extended period of time, you risk permanent damage to your television screen.

Zoom

This TV/DVD will allow you to zoom in on the frame image. You can then make selections by switching the position of the frame.

1 Press **ZOOM** during playback.
The center part of the image will be zoomed in.
Each press of **ZOOM** will change the ZOOM magnification Zoom 2× and Zoom 4×.

2 Press ▲/▼/◄/► to view a different part of the frame.
You may move the frame from the center position UP, DOWN, LEFT or RIGHT.

3 In the zoom mode, press **ZOOM** repeatedly to return to a 1:1 view.

NOTE:
• You can select the Still Playback or Fast Forward (Review) Playback in the zoom mode.
• Some discs may not respond to the zoom feature.

Locating desired scene

Use the title, chapter and time recorded on the disc to locate the desired point to play back.

1 Press **JUMP** during playback.

2 Press ▲/▼ to select the "Title Search", "Chapter Search", "Time Search" or "Track Search". Then press ► or **ENTER**.

3 Press **Number buttons (0–9)** to input the number.
• If you input a wrong number, press **CANCEL**.
• Refer to the package supplied with the disc to check the numbers.

4 Press **ENTER**.
• Playback starts.
• When you change the title, playback starts from Chapter 1 of the selected title.
• Some discs may not work in the above operation.

A-B Repeat playback

A-B repeat playback allows you to repeat material between two selected points.

1 Press **REPEAT A-B** during playback.
The start point is selected.

2 Press **REPEAT A-B** again.
The end point is selected.
Playback starts at the point that you selected.
Playback stops at the end point, returns to Point A automatically, then starts again.
• To resume normal playback press **REPEAT A-B** again.

NOTE:
• In A-B Repeat mode, subtitles near the A or B locations may not be displayed.
• You may not be able to set A-B Repeat during certain scenes of the DVD.
• A-B Repeat does not work with an interactive DVD, MP3/WMA/JPEG-CD.

Marking desired scenes

The TV/DVD stores the points that you want to watch again up to 12 points.
You can resume playback from each scene.

Marking the scenes

1 Press **MARKER** during playback.

2 Select the blank Marker using ▲/▼/◄/►, then press **ENTER** at the desired scene.
   - Up to 12 scenes can be selected.
   - Repeat this procedure to set the other 11 scenes.

3 Press **MARKER** to return to the normal screen.

Returning to the scenes

1 Press **MARKER** during playback or stop mode.

2 Press ▲/▼/◄/► to select the Marker 1-12.

3 Press **ENTER**.
   Playback starts from the marked scene.

To cancel the Marker
Follow the above steps 1~2, then press **CANCEL**.

NOTE:
- Some discs may not work with the marking operation.
- The marking is cancelled when you eject the disc or turn the power off.
- Some subtitles recorded around the marker may fail to appear.

Changing angles

When playing back a disc recorded with multi-angle facility, you can change the view angle.

1 Press **ANGLE** during playback.
   The current angle will appear.

   | Curren /Total |
   | Ang e   1/2 |
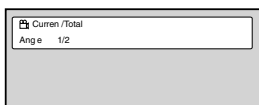
2 Press **ANGLE** repeatedly until the desired angle is selected.

NOTE:
- In case of JPEG-playback, the JPEG-image is rotated 90 degrees to the right.
- Depending on the DVD, you may not be able to change the angles even if multi-angles are recorded on the DVD.

Changing soundtrack language

You can select the language when you play a multilingual disc.

1 Press **AUDIO** during playback.
   The current soundtrack language will appear.

   | Current/Total |
   | Aud o   1/2   Engl sh   Do by Dig tal 2/0CH |
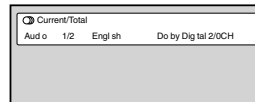
2 Press **AUDIO** repeatedly until the desired language is selected.
   The on-screen display will disappear after a few seconds.

   | Current/Total |
   | Aud o   2/2   French   Do by Dig tal 2/0CH |
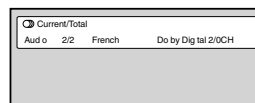
NOTE:
- If the desired language is not heard after pressing **AUDIO** several times, the language is not recorded on the disc.
- Changing soundtrack language is cancelled after "Resume off" has been selected.
- The initial default language or available language will be heard if the disc is played back again.

Subtitles

Changing the subtitle language
You can select the language when playing back a disc recorded with multilingual subtitles.

1 Press **SUBTITLE** repeatedly during playback until your desired language appears.
   The on-screen display will disappear after a few seconds.

   | Current/Total |
   | Subt tle   1/2   Engl sh |
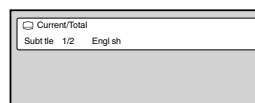
Turning the subtitles off
Press **SUBTITLE** during playback until "Off" appears.

NOTE:
- Changing subtitle language is cancelled after "Resume off" has been selected.
- Some functions may not work on some DVDs. You may not be able to turn subtitles on or off or change subtitles.
   While playing the DVD, the subtitle may change when:
   - you eject or insert the disc.
   - you change the title.
- In some cases, the subtitle language is not changed to the selected one immediately.

Using HOME MENU

Playing a disc

1 Press **SETUP** during stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/►
to select "Disc
Navigator", then
press **ENTER**.

> **HOME MENU**
> **DVD**
>
> 🎵 Audio Settings   📺 Video Adjust
>
> 📁 Play Mode   💿 Disc Navigator
>
> ◇ Initial Settings

3 Press ▲/▼ to select
desired option, then
press **ENTER.**

> 💿 **Disc Navigator**
> Title
> Chapter

• Disc Navigator may not work with some discs.
• Depending on a disc, you can select Title,
Chapter, or both.

4 Press ▲/▼/◄/► or **Number Buttons (0–9)** to
select Title or Chapter then press **ENTER**.
• Press **SKIP** (I◄◄) or **SKIP** (►►I) to move to the
previous/next page.
• Press **RETURN** to return to the previous screen.

Playing a file

1 Press **SETUP** during stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select "Disc Navigator", then
press **ENTER**.

3 Press ▲/▼ to select
folder, then press
ENTER.

> 00:00/ 00:00   0kbps ■
>
> 📁 \
>
> 📁 Folder1
> 📁 Folder2
> 📁 Folder3
> 📁 Folder4

4 Press ▲/▼ to select file, then press **ENTER**.
• If you select a JPEG file, the unit shows the
pictures one after another automatically.
• Press **RETURN** to go to the previous step.

NOTE:
• When music files and JPEG files are recorded
on one disc, you can play them simultaneously.
Please select the music file then select the
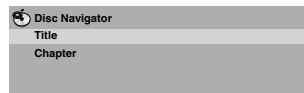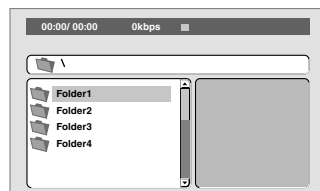JPEG file.

Play mode

A-B repeat playback
A-B repeat playback allows you to repeat a selection
between two selected points.

1 Press **PLAY MODE**
during playback.
Play Mode screen
will appear.

> 📁 **Play Mode**
>
> A B Repeat   A(Start Point)
> Repeat   B(End Point)
> Random   Off
> Program
> Search Mode
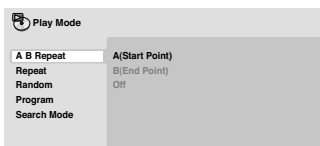
2 Press ▲/▼ to select "A-B Repeat", then press ► or
ENTER.

3 Press ▲/▼ to select "A(Start Point)", then press
ENTER. The start point is selected.

4 Press ▲/▼ to select "B(End Point)", then press
ENTER.
The end point is selected. Playback starts at the
point that you selected. Playback stops at the end
point and returns to Point A automatically, then
starts again.

To resume normal playback
Select "Off" in step 3.

NOTE:
• Some discs may not work wth the Play Mode function.
• A-B Repeat playback does not work with MP3/WMA
CD's.

Repeat playback

1 Press **PLAY MODE** during playback.
Play Mode screen will appear.

2 Press ▲/▼ to select "Repeat", then press ► or
ENTER.

3 Press ▲/▼ to select desired repeat option, then
press **ENTER**.
The unit automatically starts repeat playback after
finishing the current title or chapter.

To resume normal playback
Select "Repeat Off" in step 3.

Random playback

1 Press **PLAY MODE** during playback.
Play Mode screen will appear.

2 Press ▲/▼ to select "Random", then press ► or
ENTER.

3 Press ▲/▼ to select desired random playback
option, then press **ENTER**.
The unit automatically starts random playback.

To resume normal playback
Select "Random Off" in step 3.

NOTE:
• You cannot play Random playback for programmed
contents (Random play is not permitted during
Program playback).
• During Random playback, the same title, chapter or
track may be repeated.
• Random playback does not work with MP3/WMA CD.

Program playback

1 Press **PLAY MODE** during playback or stop mode. Play Mode screen will appear.

2 Press ▲/▼ to select "Program", then press ▶ or **ENTER**.

3 Press ▲/▼ to select "Create/Edit", then press **ENTER**. "Create/Edit" display differs, depending on discs or files.

Program	Current	Title 02	Chapter 001
Program Step	Ti le 1 38		Chapter 1 004
01. 01	Ti le 01		Chapter 001
02.	Ti le 02		Chapter 002
03.	Ti le 03		Chapter 003
04.	Ti le 04		Chapter 004
05.	Ti le 05		
06.	Ti le 06		
07.	Ti le 07		
08.	Ti le 08		

4 Press ▲/▼/◄/► to select Title, Chapter, Track or File, then press **ENTER**.
- When you add a program, find where you want to add it (Program Step) and select Title, Chapter or Track then press **ENTER**. (It will be added to the left if file is added.)
- To go to previous step, press **RETURN**.
- If **RETURN** is pressed while programming, the content will be deleted.
- To delete a program, select Program Step that you want to delete and press **CANCEL**.

5 Press **PLAY (►)**.
- To play existing programmed contents, select "Playback Start" from Play Mode screen and press **ENTER**.
- To resume normal playback, select "Playback Stop" in Play Mode screen and press **ENTER**. Your programmed contents are saved.
- To delete all programmed contents, select "Program Delete" in Play Mode screen and press **ENTER**.

NOTE:
- You can repeat the programmed contents. Select "Program Repeat" from "Repeat" in the Play Mode screen during Program playback.
- You cannot play Random playback for programmed contents (Random play is not permitted during Program playback).
- In stop mode, you can also enter Play Mode screen by selecting "Play Mode" in HOME MENU.

Locating desired scene

1 Press **PLAY MODE** during playback or stop mode. Play Mode screen will appear.

2 Press ▲/▼ to select "Search Mode", then press ► or **ENTER**.

3 Press ▲/▼ to select desired search mode option, then press ► or **ENTER**.
- Search Mode options differs, depending on discs or files.

4 Input Title, Chapter, Track or Folder number or Time by using **Number buttons (0–9)** and press **ENTER**.

Play Mode		
A B Repeat	Ti le Search	Input Chapter
Repeat	Chapter Search	
Random	Time Search	0 0 1
Program		
Search Mode		
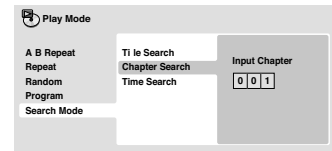
- For instance, if you want to enter 1hr 4min (64:00), input 6, 4, 0, 0.

NOTE:
- You can locate a desired scene in the Menu screen for some DVD videos.
- In stop mode, you can also enter the Play Mode screen by selecting "Play Mode" in HOME MENU.

Audio Settings menu

The Audio Settings menu offers features for adjusting the way discs sound.

1 Press **SETUP** during stop mode. HOME MENU will appear.

2 Press ▲/▼/◄/► to select "Audio Settings", then press **ENTER**.

HOME MENU DVD	
Audio Settings	Video Adjust
Play Mode	Disc Navigator
Initial Settings	

3 Press ▲/▼/◄/► to setting the option, then press **ENTER**.

Audio Settings	
Equalizer	■ Off
Audio DRC	Rock
Dialog	Pop
	Live
	Dance
	Techno
	Classic
	Soft
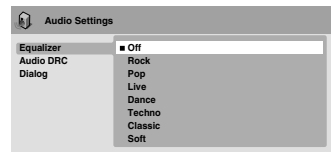
4 Press **SETUP** to save the setting.

Equalizer
Select the most suitable setting to match a category of music that you are listening to.

Audio DRC
- Adjusts loud sound levels down and quiet sound levels up while playing. This is useful, for instance, when you watch a film in the late night.
- Audio DRC only works with Dolby Digital Sound.
- The effect depends on your AV amplifier and speaker volume. Adjust the sound as you wish and find the most effective setting.

Dialog
Adjusts the audio setting when you cannot hear dialogs very well.

NOTE:
- It may not be very effective for some discs or files.

Video Adjust menu

From the Video Adjust menu you can adjust various settings that affect how the picture is presented.

1 Press **SETUP** during stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select "Video Adjust", then press **ENTER**.

HOME MENU
DVD

Audio Settings   Video Adjust

Play Mode   Disc Navigator

Initial Settings

3 Press ▲/▼/◄/► to setting the option, then press **ENTER**.

Video Adjust

Sharpness   Fine
Brightness   Standard
Contrast   Soft
Gamma
Hue
Chroma Level
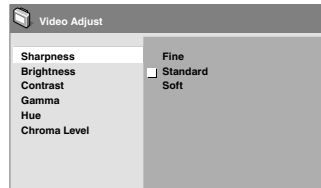
4 Press **SETUP** to save the setting.

Sharpness
Adjust sharpness of images.

Brightness
Adjust brightness of images.

Contrast
Adjust a ratio of brightness between the brightest part and the darkest part.

Gamma
Emphasizes the dark part of images.

Hue
Adjusts the balance between green and red.

Chroma Level
Adjusts color density. It is effective with animation or something with high color density.

NOTE:
• It may not be very effective for some discs or files.

Quick guide for DVD menu operation

You can change the default settings to customize performance to your preference.

Setting procedure

1 Press **SETUP** in stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select "Initial Settings", then press **ENTER**.

HOME MENU
DVD

Audio Settings   Video Adjust

Play Mode   Disc Navigator

Initial Settings
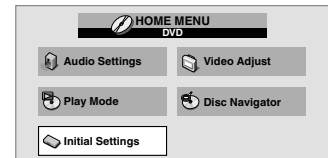
3 Press ▲/▼/◄/► to select the desired option, then press **ENTER**.

4 Change the selection using ▲/▼/◄/► or **ENTER**, by referring to the corresponding page 33.
• Repeat steps 3 and 4 to change other options.

5 To clear HOME MENU screen, press **SETUP**.

Function Setup

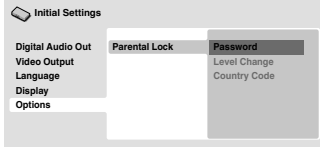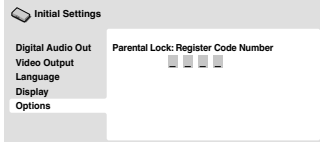| Setting	Option	
Digital Audio Out settings		
Digital Out	On	Digital audio is output when playing a disc.
	Off	Digital audio is not output when playing a disc.
Dolby Digital Out	Dolby Digital	Dolby Digital encoded digital audio is output when playing a Dolby Digital DVD disc.
	Dolby Digital > PCM	Dolby Digital audio is converted to PCM audio before being output.
DTS Out	DTS	DTS encoded digital audio is output when playing a DTS disc. (Noise will be output if your amplifier/receiver is not compatible with DTS audio.)
	Off	DTS encoded digital audio is not output when playing a DTS disc.
96kHz PCM Out	96kHz > 48kHz	96 kHz digital audio is converted to 48 kHz for digital output.
	96kHz	96 kHz digital audio is output as is at 96 kHz.
MPEG Out	MPEG	MPEG encoded digital audio is output as is.
	MPEG > PCM	MPEG encoded digital audio is converted to PCM audio for digital output.
Video Output settings		
TV Screen	4:3 (Letter Box)	Set Picture Size to Natural. Widescreen movies are shown with black bars top and bottom.
	4:3 (Pan & Scan)	Set Picture Size to Natural. Widescreen movies are shown with the sides cropped so that the image fills the screen.
	16:9 (Wide)	Set if you have a widescreen TV.
Language settings		
Audio Language	English/French/Spanish	If there is an English, French or Spanish soundtrack on the disc, then it will be played.
	Other Language	Select to choose a language other than the ones displayed. (See "Language Code List" on page 35.)
Subtitle Language	English/French/Spanish	If there is an English, French or Spanish subtitle on the disc, then it will be displayed.
	Other Language	Select to choose a language other than the ones displayed. (see "Language Code List" on page 35.)
DVD Menu Lang.	w/Subtitle Lang.	DVD disc menus will be displayed in the same language as your selected subtitle language, if possible.
	English/French/Spanish	If there is an English, French or Spanish DVD menu language on the disc, then it will be displayed.
	Other Language	Select to choose a language other than the ones displayed. (see "Language Code List" on page 35.)
Subtitle Display	On	Subtitles are displayed according to your selected subtitle language (see above).
	Off	Subtitles are always off by default when you play a DVD disc (note that some discs override this setting).
Display settings		
Angle Indicator	On	A camera icon is displayed on-screen during multi-angle scenes on a DVD disc.
	Off	No multi-angle indication is shown.
Options settings		
Parental Lock		See page 34.

Parental Control

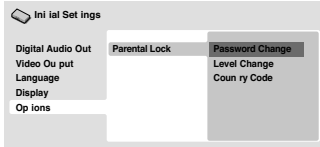Some discs are specified as not suitable for children. Such discs can be limited not to playback with the unit.

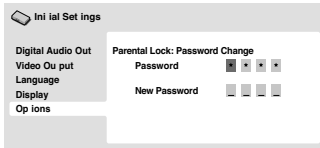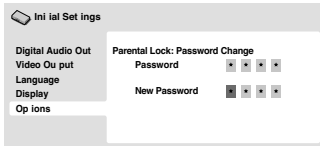## How to into the Parental Lock menu

1 Press **SETUP** in stop mode.
HOME MENU will appear.

2 Press ▲/▼/◄/► to select "Initial Settings", then press **ENTER**.

```
        HOME MENU
           DVD

  Audio Settings      Video Adjust

  Play Mode           Disc Navigator

  Initial Settings
```

3 Press ▲/▼ to select "Options", then press ► or **ENTER**.
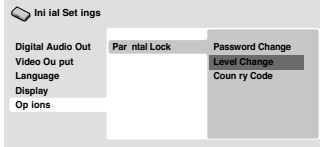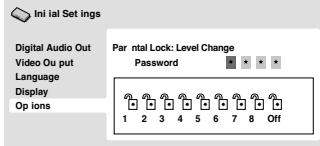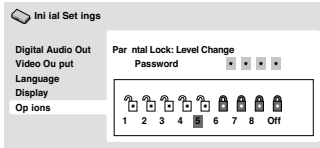Then press ► or **ENTER** to enter the Parental Lock menu.

Set Password

1 Press ▲ or ▼ to select "Password", then press **ENTER**.

```
  Initial Settings

  Digital Audio Out    Parental Lock    Password
  Video Output                          Level Change
  Language                              Country Code
  Display
  Options
```

2 Press **Number buttons (0–9)** to input the password, then press **ENTER**.

```
  Initial Settings

  Digital Audio Out    Parental Lock: Register Code Number
  Video Output
  Language             ▯ ▯ ▯ ▯
  Display
  Options
```

Change Password

1 Press ▲ or ▼ to select "Password Change", then press **ENTER**.

```
  Ini ial Set ings

  Digital Audio Out    Parental Lock    Password Change
  Video Ou put                          Level Change
  Language                              Coun ry Code
  Display
  Op ions
```

2 Press **Number buttons (0–9)** to input the current password, then press **ENTER**.

```
  Ini ial Set ings

  Digital Audio Out    Parental Lock: Password Change
  Video Ou put           Password      * * * *
  Language
  Display                New Password   ▯ ▯ ▯ ▯
  Op ions
```

3 Press **Number buttons (0–9)** to input the new password. Press **ENTER**. Now your new password has been set. Be sure to remember this number!
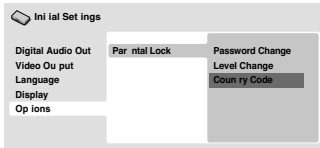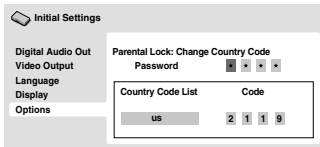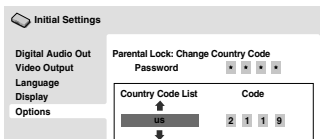
```
  Ini ial Set ings

  Digital Audio Out    Parental Lock: Password Change
  Video Ou put           Password      * * * *
  Language
  Display                New Password   * * * *
  Op ions
```

Level Change

1 Press ▲ or ▼ to select "Level Change", then press **ENTER**.

```
  Ini ial Set ings

  Digital Audio Out    Par ntal Lock    Password Change
  Video Ou put                          Level Change
  Language                              Coun ry Code
  Display
  Op ions
```

2 Press **Number buttons (0–9)** to input the current password, then press **ENTER**.

```
  Ini ial Set ings

  Digital Audio Out    Par ntal Lock: Level Change
  Video Ou put           Password      * * * *
  Language
  Display            🔓🔓🔓🔓🔓🔓🔓🔓🔓
  Op ions            1  2  3  4  5  6  7  8  Off
```

3 Press ◄ or ► to select from the level 1 to level 8.
The limitation will be more severe as the level number is lower.
Then press **ENTER**.

```
  Ini ial Set ings

  Digital Audio Out    Par ntal Lock: Level Change
  Video Ou put           Password      * * * *
  Language
  Display            🔓🔓🔓🔓🔓🔒🔒🔒🔒
  Op ions            1  2  3  4  5  6  7  8  Off
```

Level 1: DVD software for adults cannot be played back.
Level 8: Virtually all DVD software can be played back.
Level Off: The parental control setting does not function.

Country Code

1 Press ▲ or ▼ to select "Country Code", then press **ENTER**.

```
  Ini ial Set ings

  Digital Audio Out    Par ntal Lock    Password Change
  Video Ou put                          Level Change
  Language                              Coun ry Code
  Display
  Op ions
```

2 Press **Number buttons (0–9)** to input the current password, then press **ENTER**.

```
  Initial Settings

  Digital Audio Out    Parental Lock: Change Country Code
  Video Output           Password      * * * *
  Language
  Display            Country Code List       Code
  Options
                         us              2  1  1  9
```

3 Press ▲ or ▼ to select the input mode from "Country Code List" or "Code".

```
  Initial Settings

  Digital Audio Out    Parental Lock: Change Country Code
  Video Output           Password      * * * *
  Language
  Display            Country Code List       Code
  Options                 ▲
                         us              2  1  1  9
                         ▼
```

• When you selected "Country Code List": Press ▲ or ▼ to select Country Code, then press **ENTER**.
• When you selected "Code": Press ► then use the **Number buttons (0-9)** to enter the 4-digit Country Code, then press **ENTER**. (see Country/Area Code List on page 35)

NOTE:
• Depending on the discs, the unit cannot limit playback.
• Some discs may not be encoded with specific rating level information though its disc jacket says "adult." For those discs, the age restriction will not work.
• If you input a wrong number, press ◄, then input correct number.

Language Code List

Language (Language code letter), **Language code**

Japanese (ja), **1001**
English (en), **0514**
French (fr), **0618**
German (de), **0405**
Italian (it), **0920**
Spanish (es), **0519**
Chinese (zh), **2608**
Dutch (nl), **1412**
Portuguese (pt), **1620**
Swedish (sv), **1922**
Russian (ru), **1821**
Korean (ko), **1115**
Greek (el), **0512**
Afar (aa), **0101**
Abkhazian (ab), **0102**
Afrikaans (af), **0106**
Amharic (am), **0113**
Arabic (ar), **0118**
Assamese (as), **0119**
Aymara (ay), **0125**
Azerbaijani (az), **0126**
Bashkir (ba), **0201**
Byelorussian (be), **0205**
Bulgarian (bg), **0207**
Bihari (bh), **0208**
Bislama (bi), **0209**
Bengali (bn), **0214**
Tibetan (bo), **0215**
Breton (br), **0218**
Catalan (ca), **0301**
Corsican (co), **0315**
Czech (cs), **0319**
Welsh (cy), **0325**
Danish (da), **0401**

Bhutani (dz), **0426**
Esperanto (eo), **0515**
Estonian (et), **0520**
Basque (eu), **0521**
Persian (fa), **0601**
Finnish (fi), **0609**
Fiji (fj), **0610**
Faroese (fo), **0615**
Frisian (fy), **0625**
Irish (ga), **0701**
Scots-Gaelic (gd), **0704**
Galician (gl), **0712**
Guarani (gn), **0714**
Gujarati (gu), **0721**
Hausa (ha), **0801**
Hindi (hi), **0809**
Croatian (hr), **0818**
Hungarian (hu), **0821**
Armenian (hy), **0825**
Interlingua (ia), **0901**
Interlingue (ie), **0905**
Inupiak (ik), **0911**
Indonesian (in), **0914**
Icelandic (is), **0919**
Hebrew (iw), **0923**
Yiddish (ji), **1009**
Javanese (jw), **1023**
Georgian (ka), **1101**
Kazakh (kk), **1111**
Greenlandic (kl), **1112**
Cambodian (km), **1113**
Kannada (kn), **1114**
Kashmiri (ks), **1119**
Kurdish (ku), **1121**

Kirghiz (ky), **1125**
Latin (la), **1201**
Lingala (ln), **1214**
Laothian (lo), **1215**
Lithuanian (lt), **1220**
Latvian (lv), **1222**
Malagasy (mg), **1307**
Maori (mi), **1309**
Macedonian (mk), **1311**
Malayalam (ml), **1312**
Mongolian (mn), **1314**
Moldavian (mo), **1315**
Marathi (mr), **1318**
Malay (ms), **1319**
Maltese (mt), **1320**
Burmese (my), **1325**
Nauru (na), **1401**
Nepali (ne), **1405**
Norwegian (no), **1415**
Occitan (oc), **1503**
Oromo (om), **1513**
Oriya (or), **1518**
Panjabi (pa), **1601**
Polish (pl), **1612**
Pashto, Pushto (ps), **1619**
Quechua (qu), **1721**
Rhaeto-Romance (rm), **1813**
Kirundi (rn), **1814**
Romanian (ro), **1815**
Kinyarwanda (rw), **1823**
Sanskrit (sa), **1901**
Sindhi (sd), **1904**
Sangho (sg), **1907**
Serbo-Croatian (sh), **1908**

Sinhalese (si), **1909**
Slovak (sk), **1911**
Slovenian (sl), **1912**
Samoan (sm), **1913**
Shona (sn), **1914**
Somali (so), **1915**
Albanian (sq), **1917**
Serbian (sr), **1918**
Siswati (ss), **1919**
Sesotho (st), **1920**
Sundanese (su), **1921**
Swahili (sw), **1923**
Tamil (ta), **2001**
Telugu (te), **2005**
Tajik (tg), **2007**
Thai (th), **2008**
Tigrinya (ti), **2009**
Turkmen (tk), **2011**
Tagalog (tl), **2012**
Setswana (tn), **2014**
Tonga (to), **2015**
Turkish (tr), **2018**
Tsonga (ts), **2019**
Tatar (tt), **2020**
Twi (tw), **2023**
Ukrainian (uk), **2111**
Urdu (ur), **2118**
Uzbek (uz), **2126**
Vietnamese (vi), **2209**
Volapük (vo), **2215**
Wolof (wo), **2315**
Xhosa (xh), **2408**
Yoruba (yo), **2515**
Zulu (zu), **2621**

Country/Area Code List

Country/Area, **Country/Area code, Country/Area code letter**

Argentina, **0118, ar**
Australia, **0121, au**
Austria, **0120, at**
Belgium, **0205, be**
Brazil, **0218, br**
Canada, **0301, ca**
Chile, **0312, cl**
China, **0314, cn**
Denmark, **0411, dk**

Finland, **0609, fi**
France, **0618, fr**
Germany, **0405, de**
Hong Kong, **0811, hk**
India, **0914, in**
Indonesia, **0904, id**
Italy, **0920, it**
Japan, **1016, jp**
Republic of Korea, **1118, kr**

Malaysia, **1325, my**
Mexico, **1324, mx**
Netherlands, **1412, nl**
New Zealand, **1426, nz**
Norway, **1415, no**
Pakistan, **1611, pk**
Philippines, **1608, ph**
Portugal, **1620, pt**
Russian Federation, **1821, ru**

Singapore, **1907, sg**
Spain, **0519, es**
Sweden, **1905, se**
Switzerland, **0308, ch**
Taiwan, **2023, tw**
Thailand, **2008, th**
United Kingdom, **0702, gb**
USA, **2119, us**

Connections to other equipment

The exact arrangement you use to interconnect various video and audio components to this unit is dependent on the model and features of each component. Check the Owner's Manual provided with each component for the location of video and audio inputs and outputs.
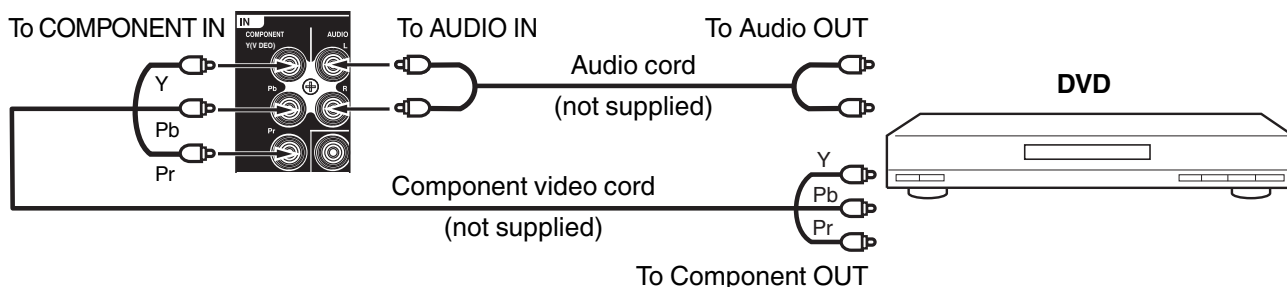
To connect the TV to a VCR

Right of the unit

To VIDEO/AUDIO IN   To Video/Audio OUT   **VCR**

Video/Audio cord (not supplied)
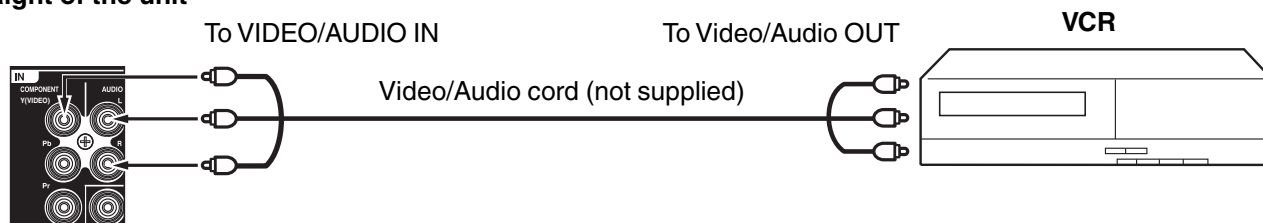
To connect the TV to a DVD player with Component Video Input
You can enjoy a high quality picture by connecting the unit's COMPONENT VIDEO OUT jacks of your DVD player with the component video cables (not supplied).

Right of the unit

To COMPONENT IN   To AUDIO IN   To Audio OUT

Y   Pb   Pr

Audio cord
(not supplied)

DVD

Component video cord
(not supplied)

Y   Pb   Pr

To Component OUT

NOTE:
• Component Video input of the unit are for use with a device which output 480i/1080i interlaced signals and 480p/720p progressive signals.

To connect the TV to a camcorder, or a game console
To playback from a camcorder, connect the camcorder to the unit as shown.
This unit can also be used as a display device for many video games. However, due to the wide variety of signals generated by these devices and subsequent hook-up variations required, they have not all been included in the suggested connection diagrams. You'll need to consult each component's Owner's Manual for additional information.

Right of the unit

To VIDEO/AUDIO IN   To Video/Audio OUT

Video/Audio cord (not supplied)

or   GAME CONSOLE
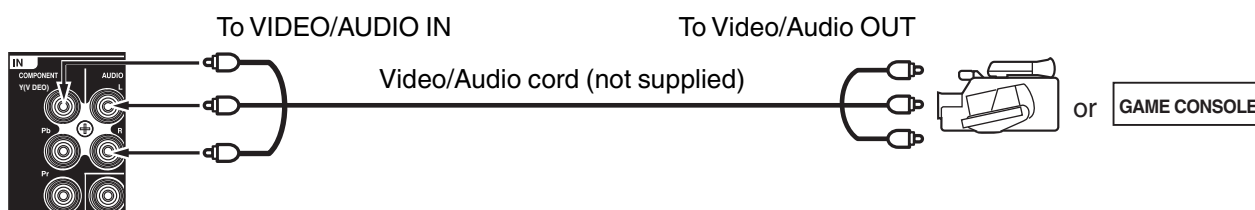
Connections to other equipment

Using an AV Amplifier with built-in digital surround
If you are using an AV Amplifier with built-in digital surround sound, you can enjoy various audio systems including Dolby Digital Surround audio that sounds just like the movie.
Connect an AV Amplifier with built-in Dolby Digital decoder, etc. as shown below.
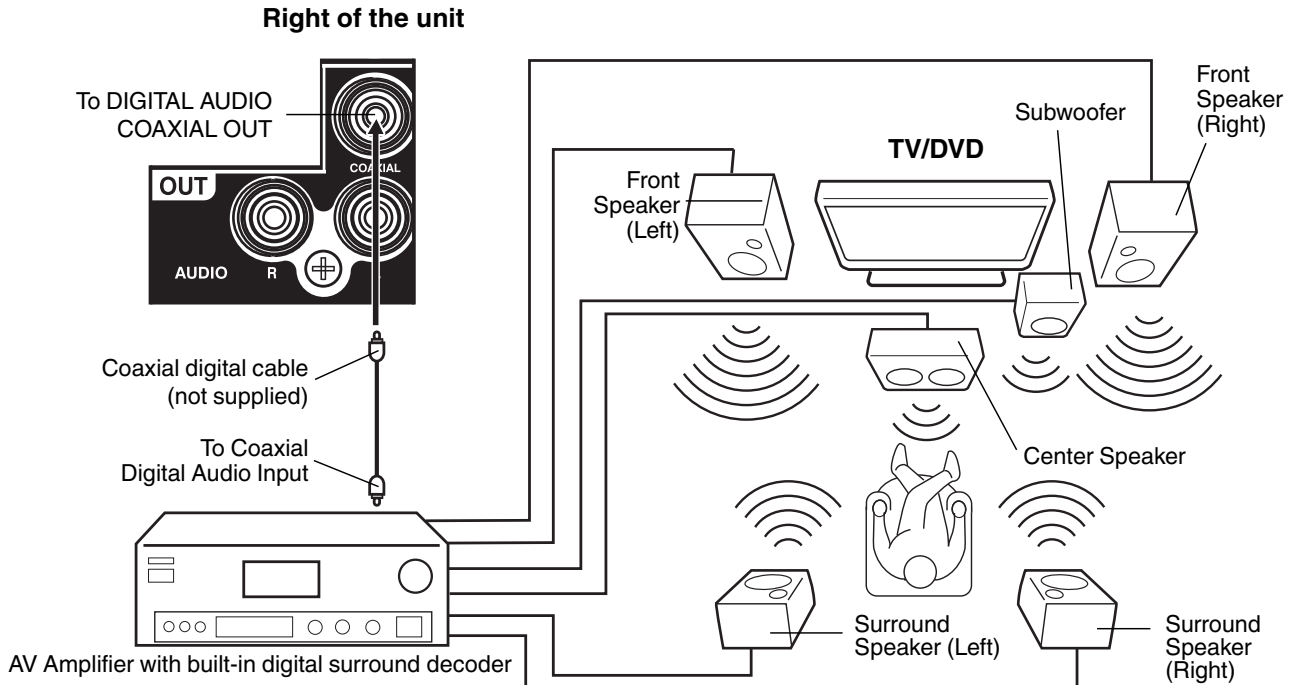
NOTE:
• When you are viewing digital broadcast, this unit will not work in conjunction with DTS audio or MPEG audio. There will be no sound output if connected to an AV Amplifier with a built-in DTS decoder or MPEG decoder.

To connect an audio system
This connection allows you to use an audio amplifier and external speakers, and adjust the audio level using the TV's remote control.
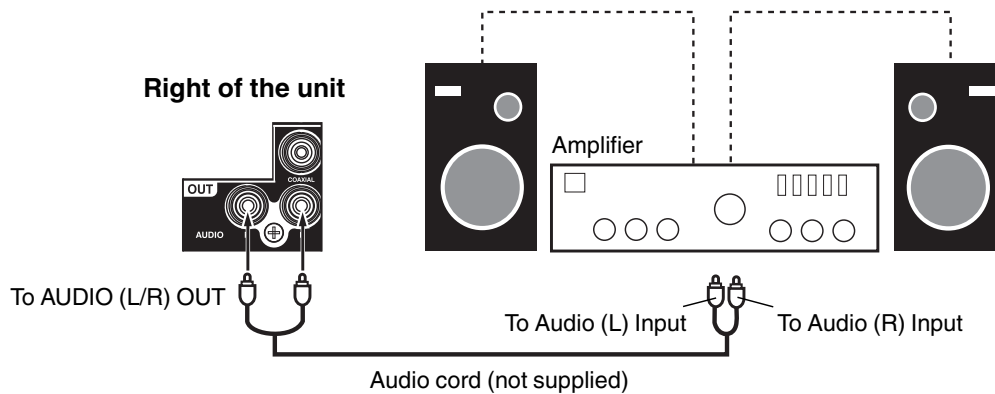
NOTE:
• To hear sound when using an external audio amplifier, the volume of both the TV and the amplifier must be set above 0 (zero).

Connections to other equipment

To connect the TV to a PC (Personal Computer)
BEFORE YOU CONNECT THIS TV TO YOUR PC, CHANGE THE ADJUSTMENT OF YOUR PC'S RESOLUTION AND REFRESH RATE (60 HZ).
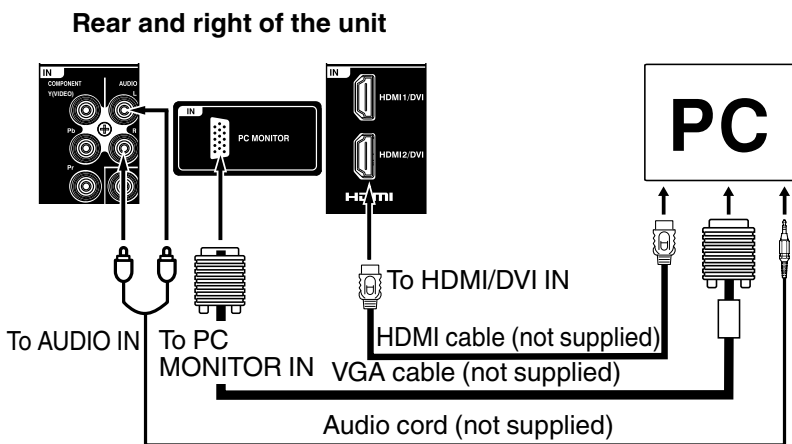Connect one end of a (male to male) VGA cable to the video cord of the computer and the other end to the VGA connector PC MONITOR IN on the rear of the TV. Attach the connectors firmly with the screws on the plug. In case of a Multimedia computer, connect the audio cord to the audio output of your Multimedia computer and to the AUDIO IN connector of the PC/DVI AUDIO IN jack of the TV. You can also connect the PC with HDMI cable. If you use HDMI cable, you don't have to connect the audio cord. If you use DVI-to-HDMI cable, please connect audio cord as same way as VGA cable.
Press **INPUT SELECT** on the remote control to select PC mode.
Switch on the computer. The TV can operate as the computer monitor.

Rear and right of the unit

To AUDIO IN | To PC MONITOR IN
To HDMI/DVI IN
HDMI cable (not supplied)
VGA cable (not supplied)
Audio cord (not supplied)

Monitor Display modes

Mode	Resolution	Refresh rate
VGA	640x480	60/ 75 Hz
VGA	720x400	70Hz
SVGA	800x600	60/ 75 Hz
XGA	1024x768	60/ 70/ 75 Hz
WXGA	1360x768	60Hz
SXGA	1280x1024	60Hz
WXGA+	1440x900	60Hz
WSXGA+	1680x1050	60Hz
FHD	1920x1080	60Hz

To return to normal mode
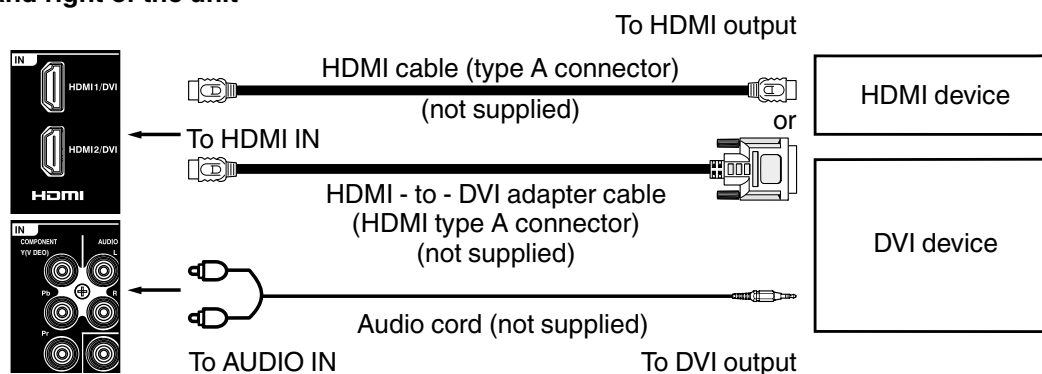Press **INPUT SELECT** again.

NOTE:
- The on-screen displays will have a different appearance in PC mode than in TV mode.
- If there is no video signal from the PC when the unit is in PC mode, "No signal" will appear on the TV-screen.
- When the PC connected to the HDMI terminal and 1920x1080 resolution (FHD) is selected, the top and bottom, right and left edges of the picture may be hidden on all picture sizes. In this case, use the PC MONITOR IN jack (VGA cable) is recommended to connect.
- When the PC's resolution is set to 1920 x 1080/60 Hz (FHD mode), a signal that differs from the FHD signal, which has been confirmed operational on this TV, may appear depending on the PC used. In this case, "Auto Adjust" or other Position Adjustment functions may fail to correct the image position.
  To solve this problem, change the PC settings to select another resolution.

To connect a HDMI or a DVI device to the unit
The HDMI/DVI input receives digital audio and uncompressed video from a HDMI device or uncompressed digital video from a DVI device.
When you connect to a DVI device with a HDMI-to-DVI adapter cable, it transfers only video signal. Separate analog audio cords required.

Rear and right of the unit

To HDMI output
HDMI cable (type A connector)
(not supplied)
HDMI device
To HDMI IN
or
HDMI - to - DVI adapter cable
(HDMI type A connector)
(not supplied)
DVI device
Audio cord (not supplied)
To AUDIO IN
To DVI output

Reception disturbances

Most types of television interference can be remedied by adjusting the height and position of the VHF/UHF antenna. Outdoor antennas are recommended for best results. The most common types of television interference are shown below. If one of these symptoms appear when the TV is connected to a Cable TV system, the disturbance may be caused by the local Cable TV company broadcast.

IGNITION
Black spots or horizontal streaks may appear, the picture may flutter or drift. Usually caused by interference from automobile ignition systems, neon lamps or AC powered tools and appliances such as drills or hair dryers.

GHOSTS
Ghosts are caused by the television signal following two paths. One is the direct path and the other is reflected by tall buildings, hills or other large objects. Changing the direction or position of the antenna may improve the reception.

SNOW
If the TV is located far from the TV station, in a fringe reception area where the signal is weak, small dots may appear in the picture.
If the signal is extremely weak, the installation of a larger external antenna may be necessary.

RADIO FREQUENCY INTERFERENCE (RFI)
Caused by two-way radios, this type of interference produces moving ripples or diagonal streaks in the picture. Some cases may cause a loss of contrast in the picture. Changing the direction and position of the antenna or installing an RFI filter may improve the picture.

PICTURE SIZE VARIATION
A slight picture size variation is normal when you adjust the CONTRAST or BRIGHTNESS settings.

CARE AND MAINTENANCE
To prevent fire or shock hazard, disconnect the TV from the power source before cleaning.
The finish on the cabinet may be cleaned with mild soap and a soft, damp cloth and cared for as other furniture.
Use caution when cleaning or wiping the plastic parts.

Problems and troubleshooting

Use the following check list for troubleshooting when you have problems with your TV/DVD. Consult your local dealer or service outlet if problems persist.
Be sure all connections are properly made when using with other units.

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
POWER		
TV/DVD does not operate.	• Make sure the power cord is plugged in. • Power is off, check fuse or circuit breaker. • Unplug unit, then plug it back in.	13
TV BROADCAST RECEPTION		
Poor sound or no sound.	• Station or Cable TV experiencing problems, tune to another station. • Check Volume adjustments or muting. • Check for sources of possible interference.	15 15 39
Poor picture or no picture.	• Station or Cable TV experiencing problems, tune to another station. • Check antenna or Cable TV connections, reorient antenna. • Check for sources of possible interference. • Check picture control adjustments.	15 14 39 17
Poor reception on some channels.	• Station or Cable TV experiencing problems, tune to another station. • Station signal is weak, reorient antenna to receive stronger station. • Check for sources of possible interference.	15 14 39
Poor color or no color.	• Station or Cable TV experiencing problems, tune to another station. • Make sure channels are set into memory. • Check picture control adjustments. • Check antenna or Cable TV connections, reorient antenna. • Check for sources of possible interference.	15 20 17 14 39
Picture wobbles or drifts.	• Station or Cable TV experiencing problems, tune to another station. • Make sure channels are set into memory. • Cable TV company is scrambling signal. • Check antenna orientation.	15 20 – 14
No Cable TV reception.	• Check all Cable TV connections. • Set Signal Type option to the "Cable" mode. • Station or Cable TV system problems, try another station.	14 20 15
Horizontal or diagonal bars on screen.	• Check antenna connections, reorient antenna. • Check for sources of possible interference.	14 39
No reception above channel 13.	• Make sure Signal Type option is in the appropriate mode. • If using antenna, check UHF antenna connections.	20 14
TV shuts off.	• No broadcast on station tuned. • Sleep Timer is set. • Power interrupted.	15 16 –
Closed Caption is not activated.	• TV station experiencing problems or program tuned is not closed captioned. Try another channel. • Check Cable TV connection or VHF/UHF antenna, reposition or rotate antenna. • Set Closed Caption in the menu.	15 14 23
Display is not shown in your language.	• Select proper language in the menu options.	19
REMOTE CONTROL		
The remote control does not function.	• Aim at the remote control at the remote sensor. • Operate within approx. 15 feet or reduce the light in the room. • Clear the path of the beam. • The batteries are weak. Replace the batteries. • Check the batteries are inserted correctly.	13

• The LCD panel is a very high technology product, giving you fine picture details. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

Problems and troubleshooting

SYMPTOMS	POSSIBLE SOLUTIONS	PAGE
DVD		
Playback doesn't start or disc ejects automatically.	• No disc is inserted. • The disc may be dirty. Clean up the disc. • The disc is scratched or warped. • The unit cannot play CD-ROMs, etc.	27 9 9 9
No picture.	• TV/DVD selector is not set correctly.	27
No sound.	• Check the input selector of the amplifier is set properly. • The unit is in the Special playback mode. • Select the correct Audio Output position on AV amplifier.	– 28 37
Picture is distorted during CUE or REVIEW.	• The picture will be distorted occasionally.	–
Stopping playback, search, slow-motion play, repeat play, or program play, etc. cannot be performed.	• Some discs may not allow some functions.	–
No surround sound.	• The setup does not match your stereo system.	37
The unit or remote operation key is not functioning.	• Turn off the unit and unplug the AC power cord for several minutes, then replug it.	13
Playback does not start when the title is selected.	• Check the Parental Lock setup.	34
Audio soundtrack and/or subtitle language is not changed when you play back a DVD.	• Multilingual language is not recorded on the DVD disc.	29
No subtitle.	• Some discs have no subtitles. • Subtitles are cleared. Press **SUBTITLE**.	29
Angle cannot be changed.	• Multi-angles are not recorded on the DVD disc.	29
"This operation can't be performed" appears on the screen.	• The function is prohibited with the unit or the disc.	27

FCC Declaration of Conformity Compliance Statement (Part 15):

The Sansui SLEDVD329 and SLEDVD329A LED-LCD TV with DVD player complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
The party responsible for compliance to these rules is:
ORION AMERICA,INC.
1105 SOUTH MAIN STREET PRINCETON, INDIANA 47670,U.S.A
Ph: 1-800-289-0980

SANSUI®

FOR CUSTOMER SERVICE, ADDITIONAL SET-UP AND OPERATING ASSISTANCE, OR TO ORDER ACCESSORIES PLEASE CALL:

1-800-289-0980

WHEN CALLING CUSTOMER SERVICE – PLEASE HAVE YOUR MODEL NUMBER READY

OR WRITE TO:
ORION SALES, INC.
3471 N. UNION DR.
OLNEY, ILLINOIS 62450

FOR INFORMATION ON OUR OTHER PRODUCTS, TO ORDER ACCESSORIES ONLINE, OR FOR RECYCLING INFORMATION, PLEASE VISIT OUR WEBSITE AT
www.sansuiproducts.com

Specifications

GENERAL

Power supply:	AC 120V, 60Hz
Power consumption:	Operation: 63W
	Stand by: 0.5W
Weight:	6.5 kg (14.3 lbs)
Dimensions:	Width: 732.9 mm (28-55/64 inches)
	Height: 470.9 mm (18-35/64 inches)
	Depth: 170.0 mm (6-45/64 inches)
Operating temperature:	5˚C - 40˚C
Operating humidity:	Less than 80% RH

TELEVISION

Type:	800.4mmV (32"class/31.51" digonal)
Display method:	Transmission TFT color LCD panel
Number of Pixels:	1366 (H) x 768 (V)
Tuner type:	US System M
	ATSC standard (8VSB), QAM
Receiving channels:	VHF 2-13
	UHF 14-69
	CATV 14-36 (A)-(W)
	37-59 (AA)-(WW)
	60-85 (AAA)-(ZZZ)
	86-94 (86)-(94)
	95-99 (A-5)-(A-1)
	100-135 (100)-(135)
	01 (4A)
Inputs:	Video: (RCA) 1 V (p-p), 75 ohms
	Audio: (RCA) –8 dBm/50k ohms
	Component video: (Y) 1 V (p-p), 75 ohms
	(Pb)/(Pr) 0.7 V (p-p), 75 ohms
	HDMI: HDMI compliant (type A connector)
	HDCP compliant
	E-EDID compliant
	Suggested scan rates: 480i, 480p, 720p,1080i,1080p
	HDMI Audio: 2-channel PCM
	32/44.1/48 kHz sampling frequency
	16/20/24 bits per sample
	PC Monitor: Mini-Dsub 15pin
	Antenna: VHF/UHF In 75 ohms coaxial
Outputs:	Digital audio out: 0.5 V (p-p), 75 ohms terminated
	Audio: 0-600 mV rms/1k ohm
Speakers:	40.6 mm x 121.9 mm (1-5/8 inches x 4-13/16 inches), 8 ohms x 2
Audio output power:	5.0W + 5.0W

DVD/CD player

Signal system:	NTSC
Applicable disc:	1.DVD (12 cm)
	2.CD (12 cm)
Pickup:	CD: Wavelength: 790 nm
	Maximum output power: 7 mW
	DVD: Wavelength: 655 nm
	Maximum output power: 5 mW

ACCESSORIES	Remote control
	Batteries (AA) x 2
	Stand
	Screws (4x16mm(5/32x5/8 inches)) x 3

Designs and specifications are subject to change without notice.

SANSUI®
limited
WARRANTY

32" CLASS LED-LCD TV WITH DVD PLAYER

ORION warrants this product to be free from manufacturing defects in material and workmanship under normal use and conditions for a period of 1 year from date of original purchase in the United States.

Should service be necessary under this warranty for any reason due to a manufacturing defect or malfunction during the first 12 months from date of original purchase, ORION will provide carry-in service only by an ORION authorized Independent Service Center at no charge. Also, if an original part fails due to manufacturing defect in material and workmanship within one year from date of original purchase we will replace the defective part, provided the defect or malfunction is verified along with dated proof of purchase.

There are ORION authorized Independent Service Centers located throughout the country. For the one nearest you, DIAL TOLL FREE: 1-800-289-0980 or visit our website at www.sansuiproducts.com. ORION will not be liable for damages incurred in shipment of the unit. If there are no ORION authorized Independent Service Centers in your area please call - 1-888-296-7466 for assistance.

Note: This warranty is void if the product is:
(a)   Damaged through negligence, misuse, abuse, or accident.
(b)   Used in a commercial application or rentals.
(c)   Modified or repaired by anyone other than an Independent Service Center authorized by ORION to effect warranty repairs to the class of product or by the ORION Factory Service Center.
(d)   Damaged because it is improperly connected to the equipment of other manufacturers.

This warranty does not cover:
(a)   Damage to video disc.
(b)   Damage to equipment not properly connected to the product.
(c)   Costs incurred in the shipping of the product to an ORION authorized Independent Service Center or ORION Factory Service Center.
(d)   Damage or improper operation of unit caused by customer abuse, misuse, negligence, or failure to follow operating instructions provided with the product.
(e)   Ordinary adjustments to the product which can be performed by customer as outlined in the owner's manual.
(f)   Signal reception problems caused by external antenna or cable systems.

THIS WARRANTY IS NON TRANSFERABLE AND APPLIES ONLY TO THE ORIGINAL PURCHASER AND DOES NOT EXTEND TO SUBSEQUENT OWNERS OF THE PRODUCT. ANY APPLICABLE IMPLIED WARRANTIES, INCLUDING THE WARRANTY OF MERCHANTABILITY, ARE LIMITED IN DURATION TO A PERIOD OF THE EXPRESS WARRANTY AS PROVIDED HEREIN BEGINNING WITH THE DATE OF ORIGINAL PURCHASE AT RETAIL AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED SHALL APPLY TO THIS PRODUCT THEREAFTER. ORION MAKES NO WARRANTY AS TO THE FITNESS OF THE PRODUCT FOR ANY PARTICULAR PURPOSE AND USE.

UNDER NO CIRCUMSTANCES SHALL ORION BE LIABLE FOR ANY LOSS, DIRECT, INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGE ARISING OUT OF OR IN CONNECTION WITH THE USE OF THIS PRODUCT.

THIS WARRANTY IS VALID ONLY IN THE UNITED STATES OF AMERICA. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, HOWEVER, YOU MAY HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE. SOME STATES DO NOT ALLOW LIMITATION ON IMPLIED WARRANTIES OR EXCLUSION OF CONSEQUENTIAL DAMAGE, THEREFORE THESE RESTRICTIONS MAY NOT APPLY TO YOU.

ORION SALES, INC.
3471 N. UNION DR.
OLNEY, ILLINOIS 62450