Emerson

LD320EM5

EN Owner's Manual
ES Manual del Propietario
FR Manuel du Propriétaire

EN **Need help?**
Please call toll free or visit our web site below

ES **¿Necesita ayuda?**
Llame por favor sin costo ó visite nuestro sitio web en

FR **Besoin d'aide?**
Appelez notre numéro gratuit ou visitez notre site web à l'adresse

📞   **1 866 309 8819**

💻   **www.emersonaudiovideo.com**

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*Additional Benefits

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Know these **safety** *symbols*

⚡ **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 caution marking is located on the rear or bottom of the cabinet.

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 apparatus's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

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

WARNING: To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

CAUTION: To prevent electric shock, match wide blade of plug to wide slot, fully insert.

ATTENTION: Pour éviter les choc électriques,introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

Emerson. *Visit our World Wide Web Site at www.emersonaudiovideo.com*

CHILD SAFETY:
PROPER TELEVISION PLACEMENT MATTERS

THE CONSUMER ELECTRONICS INDUSTRY CARES

• Manufacturers, retailers and the rest of the consumer electronics industry are committed to making home entertainment safe and enjoyable.
• As you enjoy your television, please note that all televisions – new and old- must be supported on proper stands or installed according to the manufacturer's recommendations. Televisions that are inappropriately situated on dressers, bookcases, shelves, desks, speakers, chests, carts, etc., may fall over, resulting in injury.

TUNE IN TO SAFETY
• **ALWAYS** follow the manufacturer's recommendations for the safe installation of your television.
• **ALWAYS** read and follow all instructions for proper use of your television.
• **NEVER** allow children to climb on or play on the television or the furniture on which the television is placed.
• **NEVER** place the television on furniture that can easily be used as steps, such as a chest of drawers.
• **ALWAYS** install the television where it cannot be pushed, pulled over or knocked down.
• **ALWAYS** route cords and cables connected to the television so that they cannot be tripped over, pulled or grabbed.

CE.org/safety CEA
Consumer Electronics Association

WALL OR CEILING MOUNT YOUR TELEVISION
• **ALWAYS** contact your retailer about professional installation if you have any doubts about your ability to safely mount your television.
• **ALWAYS** use a mount that has been recommended by the television manufacturer and has a safety certification by an independent laboratory (such as UL, CSA, ETL).
• **ALWAYS** follow all instructions supplied by the television and mount manufacturers.
• **ALWAYS** make sure that the wall or ceiling where you are mounting the television is appropriate. Some mounts are not designed to be mounted to walls and ceilings with steel studs or cinder block construction. If you are unsure, contact a professional installer.
• Televisions can be heavy. A minimum of two people is required for a wall or ceiling mount installation.

MOVING AN OLDER TELEVISION TO A NEW PLACE IN YOUR HOME
• Many new television buyers move their older CRT televisions into a secondary room after the purchase of a flat-panel television. Special care should be made in the placement of older CRT televisions.
• **ALWAYS** place your older CRT television on furniture that is sturdy and appropriate for its size and weight.
• **NEVER** place your older CRT television on a dresser where children may be tempted to use the drawers to climb.
• **ALWAYS** make sure your older CRT television does not hang over the edge of your furniture.

Important Safety Instructions

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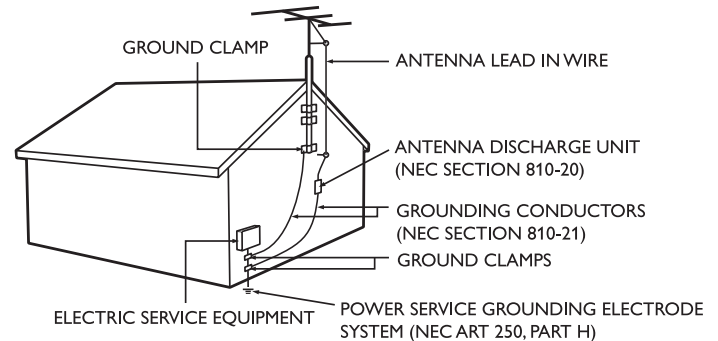
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have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

Note to the CATV system installer:

This reminder is provided to call the CATV 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.

Example of Antenna Grounding as per NEC - National Electric Code

GROUND CLAMP

ANTENNA LEAD IN WIRE

ANTENNA DISCHARGE UNIT (NEC SECTION 810-20)

GROUNDING CONDUCTORS (NEC SECTION 810-21)

GROUND CLAMPS

ELECTRIC SERVICE EQUIPMENT

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

Wall Mount Bracket Kit

	Brand	Model #	Screw dimension
LD320EM5	SANUS	SAN18B	M4 × 0.472" (12mm)

- The recommended Wall Mount Bracket Kit (sold separately) allows the mounting of the TV on the wall.
- For detailed information on installing the wall mount, refer to the Wall Mount Instruction Book.
- Funai is not responsible for any damage to the product or injury to yourself or others if you elect to install the TV Wall Mount Bracket or mount the TV onto the Bracket on your own.
- The Wall Mount Bracket must be installed by experts.

Funai is not liable for these types of accidents or injury noted below.

- Install the Wall Mount Bracket on a sturdy vertical wall.
- If installed onto a ceiling or slanted wall, the TV and Wall Mount Bracket may fall which could result in a severe injury.
- Do not use screws that are longer or shorter than their specified length. If screws too long are used this may cause mechanical or electrical damage inside the TV set. If screws too short are used this may cause the TV set to fall.
- Do not fasten the screws by excessive force. This may damage the product or cause the product to fall, leading to an injury.
- For safety reasons use 2 people to mount the TV onto a Wall Mounting Bracket.
- Do not mount the TV onto the Wall Mounting Bracket while your TV is plugged in or Turned On. It may result in an electrical shock injury.

When installing the unit on the wall, allow this much space.

Top:	11.8 inches (30cm)
Left and right side:	5.9 inches (15cm)
Bottom:	3.9 inches (10cm)

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Funai reserves the right to change products at any time without being obliged to adjust earlier supplies accordingly.

The material in this Owner's Manual is believed adequate for the intended use of the system. If the product or its individual modules or procedures are used for purposes other than those specified herein, confirmation of their validity and suitability must be obtained. Funai warrants that the material itself does not infringe any United States patents. No further warranty is expressed or implied.

Funai cannot be held responsible neither for any errors in the content of this document nor for any problems as a result of the content in this document. Errors reported to Funai will be adapted and published on the Funai support website as soon as possible.

Pixel characteristics

This LCD product has a high number of color pixels. Although it has effective pixels of 99.999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

Warranty

No components are user serviceable. Do not open or remove covers to the inside of the product. Repairs may only be done by Service Centers and official repair shops. Failure to do so shall void any warranty, stated or implied.

Any operation expressly prohibited in this Owner's Manual, any adjustments or assembly procedures not recommended or authorized in this Owner's Manual shall void the warranty.

Federal Communications Commission Notice

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 the 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 or television technician for help.

Declaration of Conformity

Trade Name : Emerson
Responsible Party : FUNAI CORPORATION, Inc.
Model : LD320EM5
Address : 19900 Van Ness Avenue, Torrance, CA 90501 U.S.A.
Telephone Number : 1 866 309 8819

Modifications

This apparatus may generate or use radio frequency energy. Changes or modifications to this apparatus may cause harmful interference unless the modifications are expressly approved in the Owner's Manual.

The user could lose the authority to operate this apparatus if an unauthorized change or modification is made.

Cables

Connections to this device must be made with shielded cables with metallic RFI / EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Canadian notice

CAN ICES-3 (B)/NMB-3 (B)
Standard Television Receiving Apparatus, Canada BETS-7 / NTMR-7.

LASER SAFETY

This apparatus is classified as a CLASS 1 LASER PRODUCT. This apparatus employs a laser. Only a qualified service person should remove the cover or attempt to service this apparatus, due to possible eye injury.

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
KLASS 1 LASER APPARAT
CLASSE 1 PRODUIT LASER

CAUTION: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.
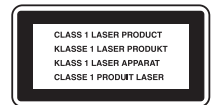
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Manufactured under license from Dolby Laboratories. Dolby and the double-D symbol are trademarks of Dolby Laboratories.

is a trademark of DVD Format / Logo Licensing Corporation.

ENERGY STAR® is a joint program of the U.S. Environmental Protection Agency and the U.S. Department of Energy helping us all save money and protect the environment through energy efficient products and practices.

Consumer Notice:

This TV has been set to maximize energy efficiency while delivering the best possible picture using the factory installed home mode settings.

Changing or enabling other features in this TV (e.g. brightened backlighting) will possibly increase energy consumption beyond the original ENERGY STAR® qualified limits.

Portions of this software are copyright © The FreeType Project (www.freetype.org).

The American Academy of Pediatrics discourages television viewing for children younger than two years of age.

2 Important

Positioning the TV

*   Large screen TVs are heavy. 2 people are required to carry and handle a large screen TV.
*   Make sure to hold the upper and bottom frames of the Unit firmly as illustrated.
*   Install the Unit in a horizontal and stable position.
*   Do not install the Unit in direct sunlight or in a place subject to dust or strong vibration.
*   Depending on the environment, the temperature of this Unit may increase slightly. This is not a malfunction.
*   Avoid a place with drastic temperature changes.
*   Do not place anything directly on top or bottom of the Unit.
*   Depending on your external devices, noise or disturbance of the picture and / or sound may be generated if the Unit is placed too close to them. In this case, please ensure enough space between the external devices and the Unit.
*   Do not insert the AC power cord into the power socket outlet before all the connections are made.
*   Ensure that you always have easy access to the AC power cord or plug to disconnect the TV from the power.
*   Before you move the TV, disconnect attached cables to prevent damage to connectors.
*   Be sure to unplug the AC power cord from the AC outlet before moving or carrying the Unit.
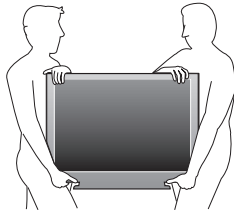
Dew Condensation Warning

*   Dew condensation may form inside the unit in the following conditions. If so, do not use this unit at least for a few hours until its inside gets dry.
    -   The unit is moved from a cold place to a warm place.
    -   Under conditions of high humidity.
    -   After heating a cold room.

Regulatory Notices

Do not place the Unit on the furniture that is capable of being tilted by a child and an adult leaning, pulling, standing or climbing on it. A falling Unit can cause serious injury or even death.

This apparatus should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided.
Make sure to leave a space of 4 inches (10cm) or more around this apparatus.
Press ⏻ to turn the Unit on and go into standby mode.
To completely turn off the Unit, you must unplug the AC power cord.
Disconnect the AC plug to shut the Unit off when trouble is found or not in use. The AC plug shall remain readily available.

AC plug
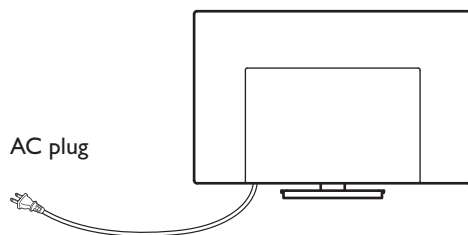
Never use a gas duster on this TV.
The gas trapped inside of this Unit may cause ignition and explosion.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.
WARNING: Batteries (battery pack or battery installed) shall not be exposed to excessive heat such as sunshine, fire or the like.
WARNING: To prevent injury, this apparatus must be securely attached to the furniture / wall in accordance with the instructions. Tipping, shaking or rocking the unit may cause injury / death.

Environmental Care

The packaging of this product is intended to be recycled.

Contact your local authorities for information about how to recycle the packaging.

For product recycling information, please visit - *www.emersonaudiovideo.com*

Click on | Protect Our Environment ♻

End of Life Directives

Emerson pays a lot of attention to produce environmental-friendly products in green focal areas. Your new TV contains materials which can be recycled and reused. At the end of its life, specialized companies can dismantle the discarded TV to concentrate the reusable materials and to minimize the amount of materials to be disposed of. Please ensure you dispose of your old TV according to local regulations.

Disposal of Used Batteries

The Batteries supplied do not contain the heavy metals mercury and cadmium. Nevertheless, in many areas Batteries may not be disposed of with your household waste. Please ensure you dispose of Batteries according to local Regulations.

Preparing to Move/Ship the Unit

Please pack the Unit properly by following the Diagram on the Carton.

1   2   3   4
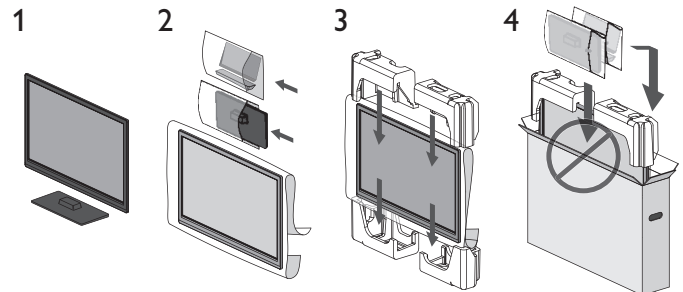
ⓘ To avoid damage to the Screen, do not pack the stand on the same side as the TV screen.

3 Getting Started

Features

<table>
<tr><td align="center">TV</td><td align="center">DVD</td></tr>
</table>

TV

- **DTV / Analog TV / CATV**
  You can use your Remote Control to select channels which are Broadcast in Digital format and conventional Analog format. Also, Cable and Satellite subscribers can access their TV channels.

- **Information display**
  You can display on the TV screen the Title, contents (DTV only) and other information on the current Program.

- **Autoprogram**
  This Unit Automatically scans and memorizes channels available in your area, Eliminating difficult Setup procedures.

- **Child lock**
  This feature allows you to Block children's access to inappropriate Programs.

- **Closed Caption decoder**
  Built-in Closed Caption decoder displays text for Closed Caption supported Programs.

- **MTS / SAP tuner**
  Audio can be selected from the Remote Control.

- **Auto Standby**
  If there is no Input Signal and no operation for 15 minutes, the Unit will go into Standby mode Automatically.

- **Sleep Timer**
  You can set the Unit to go into Standby mode after a specific amount of time.

- **Choices for On-screen language**
  Select your On-screen language: English, Spanish or French.

- **Stereo sound function**

- **PLL frequency synthesized tuning**
  Provides free and easy channel selection and lets you tune directly to any channel using the number and decimal point "•" keys on the Remote Control.

- **Various adjustments for Picture and Sound**
  Customizes picture quality suitable for your room and sets your sound preference.

- **fun-Link via HDMI link**
  fun-Link allows your other HDMI link Devices to be controlled by the HDMI cable connected to your TV.

- **HDMI Input**

- **HDMI-DVI Input**
  If your Video Device has a DVI Output jack, use an HDMI-DVI Conversion Cable to connect the Unit.

- **AV Input**
  Audio and Video Input from an External Device.

- **Digital Audio Output**
  Digital Audio (Supporting Dolby Digital) sent to Home Theaters and other Digital Audio systems.

- **Headphone Audio Output**
  Headphone 3.5mm Stereo jack for personal listening.

DVD

- **Dolby Digital Sound**
  Enjoy Dolby Digital multi-channel surround sound when you connect the Unit to your Dolby Digital decoder.

- **Still / Fast / Slow / Step Playback**
  Various Playback modes are available including Still Pictures, Fast Forward / Reverse, Slow Motion and Step Playback Frames.

- **DVD Menus in a Desired Language**
  You can display DVD Menus in a Desired Language, if available on a DVD-video.

- **Auto Standby**
  If there is no operation for 15 minutes, the Unit will go into Standby mode automatically.

- **Parental Lock**
  Block the viewing of a DVD-video unsuitable for children.

- **Resume Playback**
  Lets you Resume Playback from the point at which Playback was stopped.

- **Bit Rate Indication**
  The levels of Audio and Video Data currently being read.

- **DRC (dynamic range control)**
  You can control the range of sound volume.

Accessing from MODE key

During Playback

- **Subtitles in a Desired Language**
  You can select a Desired Language for displaying Subtitle, if that Language is available on a DVD-video.

- **Selecting a Camera Angle**
  You can select the desired Camera Angle, if a DVD contains sequences recorded from different Angles.

- **Zoom**
  Allows you to enlarge the size of picture image.

- **Black Level Adjustment**
  Brighten the Dark areas of the TV picture.

- **Virtual Surround**
  Enjoy Virtual Surround on a 2 channel Stereo System.

- **Search**
  Chapter Search / Title Search / Track Search / Time Search

- **Marker**
  The part on the Disc designated by user can be called back.

- **Repeat**
  Chapter / Title / Track / All / A-B

Accessing from MODE key

In stop mode

- **Program Playback for Audio CD**
  You can program the order of Tracks to play them back in a designated order.

- **Random Playback for Audio CD**
  This Unit can Shuffle the order of Tracks to play them back randomly.

Accessing from SAP / AUDIO key

During Playback

- **Choices for Audio Language and Stereo Sound Function**
  Select your desired Languages or Stereo Sound Function when different options are available on your Disc.
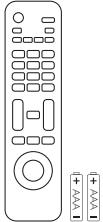
Supplied Accessories

Owner's Manual

Quick Start guide

Quick
Start

Remote Control
and **Batteries**
(AAA, 1.5V × 2)

TV base and **Screws**

Screws packed with this Unit.

Model	Quantity	Size
LD320EM5	3	M4 x 0.551''(14mm)

Note(s)

- If you lose the Screws, please purchase the above-mentioned Phillips head Screws at your local store.
- If you need to replace these accessories, please refer to the Part Name with the illustrations and call our toll free customer support line found on the cover of this Owner's Manual.

When using a Universal Remote Control to operate this Unit.

- Make sure the component code on your Universal Remote Control is set to our brand. Refer to the instruction book accompanying your Remote Control for more details.
- We Do Not guarantee 100% interoperability with All Universal Remote Controls.

Symbols used in this Owner's Manual

The following is the description for the symbols used in this Owner's Manual. Description refers to:

TV FUNCTIONS

Digital TV Operation

Cable / NTSC (Analog) TV Operation

- If neither symbol appears, the operation is applicable to both.

DVD FUNCTIONS

DVD : Playback of DVD-video

CD : Playback of Audio CD

- If neither symbol appears under the function heading, operation is applicable to both.
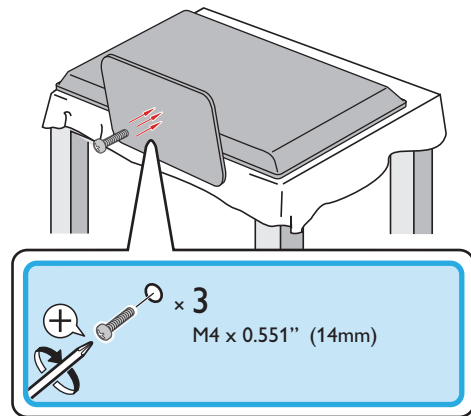
Attaching the Base

You must attach the base to the Unit to have it as a table top Unit. Be sure the front and rear of the base match the proper direction. For large screen TVs, at least 2 people are required for these steps.

1

2

× **3**
M4 x 0.551" (14mm)

Note(s)

- Make sure to use a table which can support the weight of this Unit and is larger than this Unit.
- Make sure the table is in a stable location.
- When attaching the base, ensure that ''FRONT'' with ''arrow'' written on the bottom of the base is downward. If it's not downward, the 2 hooks don't fit into the base.
- When attaching the base, ensure that All Screws are tightly fastened. If the base is not properly attached, it could cause the Unit to fall, resulting in injuries as well as damage to the Unit.
- To remove the base from this Unit, unscrew the Phillips head screws in step **2**. Be careful not to drop the base when you remove it.

Mounting the Unit on your furniture

Screw this Unit on your furniture tightly using a wood screw (Not Supplied) in the hole at the back of the base as shown.

• Recommended screw dimension : 3/16 × 3/4 inches (5.1 × 20 mm)

Rear of this Unit

Screw Hole
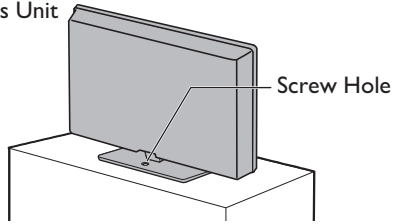
▤ Note(s)

• When you remove this Unit make sure to unscrew the wood screw from your Wood Stand, Furniture and other wood item.

Installing the Remote Control Batteries
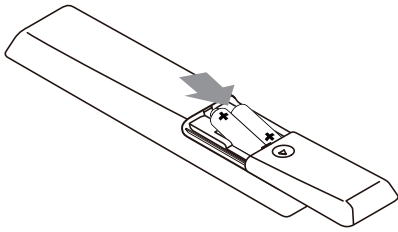
1 Slide the battery cover off the back of the Remote Control.

2 Insert 2 Supplied Batteries (AAA, 1.5V). Be sure the + and – ends of the Batteries line up with the markings inside the case.

3 Slide the cover back into position.

▤ Note(s)

• Remove the Batteries if not using the Remote Control for an extended period of time.

Remote Control
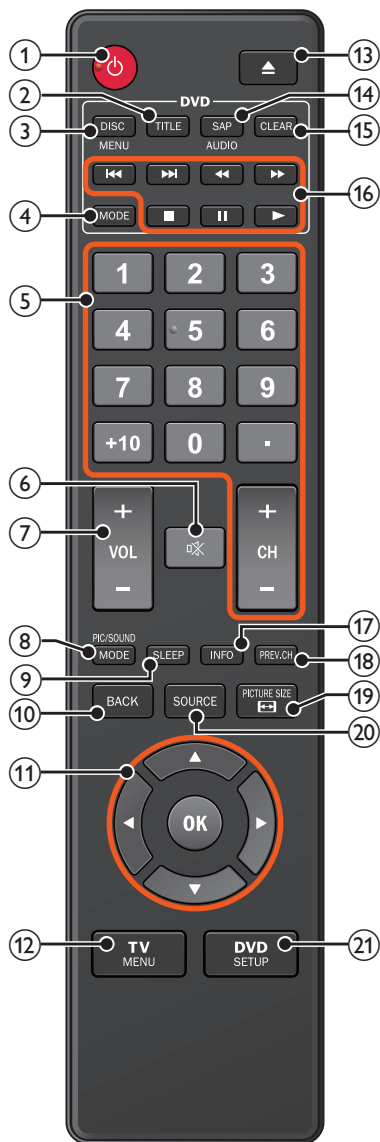
(a) ⏻ (POWER)
Turns the TV On from Standby or Off to Standby.

(b) TITLE
Opens the Title Menu.

(c) DISC MENU
Opens the Disc Menu.

(d) MODE
Sets various items during DVD / CD Playback.

(e) 0 - 9 (NUMBER keys)
Used to enter a Channel / Program / Chapter / Title / Track number.

+10   :   Used to enter 10 or higher number of Chapters.

• (DOT)   :   Use with **0-9** to select Digital channels. For example, to enter 2.1, press

CH + / −   :   Selects a Channel in the Memorized Channel Ring (Low to High or High to Low).
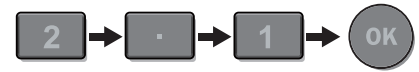
(f) ⊗ (MUTE)
Turns the Sound On and Off.

(g) VOL + / −
Adjusts the Volume.

(h) PIC/SOUND MODE
Optimizes Picture and Sound quality.

(i) SLEEP
Sets Sleep Timer.

(j) BACK
Returns to the previous Menu operation.

(k) ▲ ▼ ◄ ► (NAVIGATION keys) / OK
Moves the cursor, Selects the On-screen Menu items.

(l) TV MENU
Opens the Main On-screen Menu.

(m) ⏏ (EJECT)
Ejects a Disc from the Disc Slot.

(n) SAP / AUDIO
Selects Audio mode (MONO / STEREO / SAP) / Audio language.

(o) CLEAR
Clears the numbers entered incorrectly.
Cancels the point A for A-B repeat.
Removes a Track number in the CD Program input.

(p)

I◄◄ / ►►I   :   Skips Backward or Forward Chapters, Titles or Tracks on a Disc.

◄◄ / ►►   :   Searches Backward or Forward through the Disc. Begins Slow Forward or Slow Reverse Playback during the Pause mode (DVD).

■   :   Stops the Disc Playback.

II   :   Pauses the Disc Playback.

►   :   Begins or Restarts the Disc Playback.

(q) INFO
Displays Information about the current program or Disc.

(r) PREV.CH
Returns to the previously viewed Channel.

(s) PICTURE SIZE ↔
Adjusts the Picture size on the TV screen.

(t) SOURCE
Selects Connected Devices.

(u) DVD SETUP
Opens the DVD Setup Menu.

Control Panel
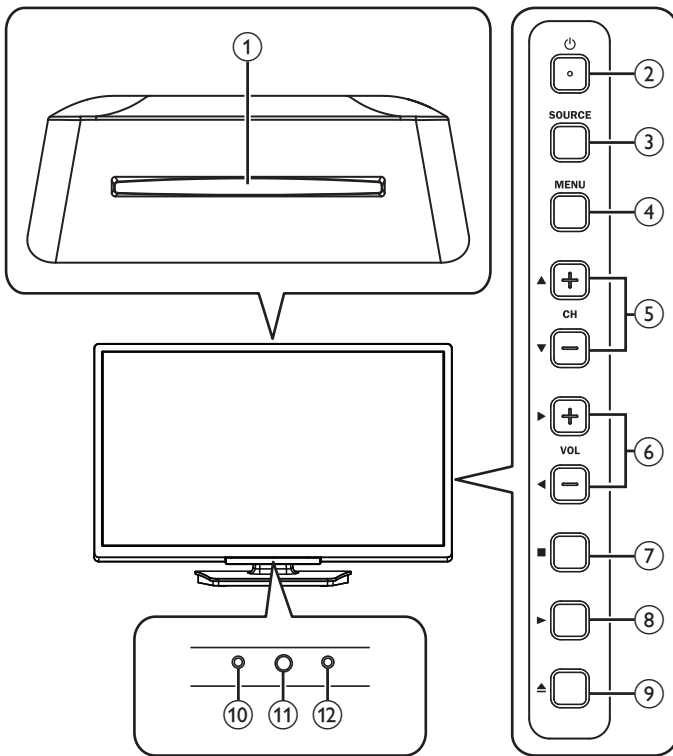
Terminals

ⓐ Disc loading slot

ⓑ ⏻ (POWER)
Turns the TV On from Standby or Off to Standby.

ⓒ SOURCE
Selects Connected Devices.

ⓓ MENU
Opens the Main On-screen Menu.

ⓔ CH ▲ (+) / ▼(-)
Selects a Channel.
In the Menu screen, moves the Cursor Up ▲ (+) / Down ▼ (-).

ⓕ VOL ◀ (-) / ▶(+)
Adjusts the Volume.
In the Menu screen, moves the Cursor Left ◀ (-) / Right ▶ (+).
VOL ◀(-) : Volume Down
VOL ▶(+) : Volume Up

ⓖ ■ (STOP)
Stops Disc Playback.

ⓗ ▶ (PLAY)
Starts Disc Playback

ⓘ ▲ (EJECT)
Ejects a Disc from the Disc Slot

ⓙ Disc-In Indicator
Lights up orange when the Disc is inserted.

ⓚ Remote Control Sensor
Receives IR Signal from Remote control.

ⓛ Power On / Standby Indicator
(On : no light, Standby : red light)
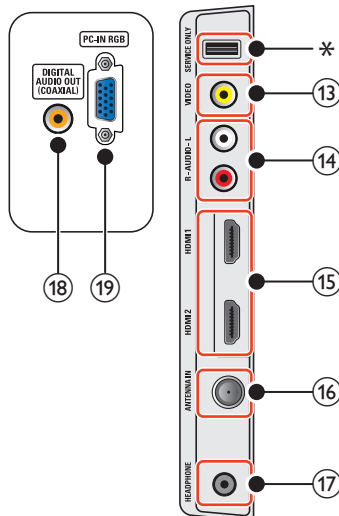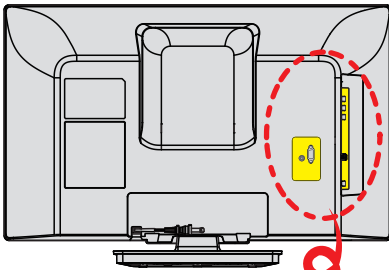
ⓜ Composite Video (VIDEO) Input jack for VIDEO

ⓝ Analog Audio (L/R) Input jacks
Connect Analog Audio Signals from;

- HDMI-DVI / Analog Audio (L/R) jacks Signal

- Composite Video / Analog Audio (L/R) jacks Signal

- PC Connection / Analog Audio (L/R) jacks Signal with Stereo Mini 3.5mm Plug Audio Cable on PC

ⓞ HDMI Input jack(s)
Digital Audio and Video Input from High Definition Digital Devices such as DVD / Blu-ray Disc players, Cable / Satellite Set-top Boxes and PC's.

ⓟ 75 ohm Cable / Antenna / Satellite connection
Signal Input from an Antenna or Cable / Satellite Set-top Boxes.

ⓠ Headphone Audio Output jack
Headphone 3.5mm Stereo jack for personal listening.

ⓡ Digital Audio Output jack
Digital Audio (S/PDIF) Output to Home Theaters and other Digital Audio systems.

ⓢ PC Input jack
VGA cable Connection for PC.

* USB Service Port (service use only)

Use this port only when a software upgrade is necessary. User should not connect any devices to the service port such as digital camera, keyboard, mouse, etc. (because these will not work). The software upgrade is, in most cases, handled by an authorized service person or in some circumstances the user may be asked to do the software upgrade themselves.

Connecting the Antenna, Cable or Satellite

Be sure your Antenna or another Device is connected properly before plugging in the AC Power Cord.
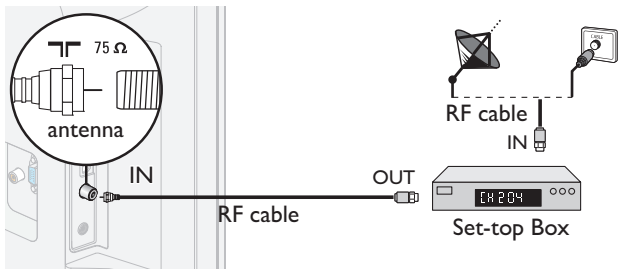
If connecting to an Antenna through an RF cable

Any DTV Programs that are Broadcast in your area can be received for free through an Antenna Connection.
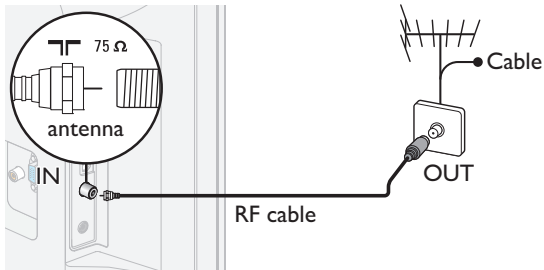
If you connect a Set-top Box through an RF cable

If the TV is connected to a Cable / Satellite Set-top Box via a Coaxial Connection, set the TV to channel 3/4 or the channel specified by the service provider.

If connecting a Set-top Box through an HDMI cable

If the TV is connected to a Cable / Satellite Set-top Box via an HDMI cable, make sure you select the correct Source by using **SOURCE** key on TV or Remote Control.
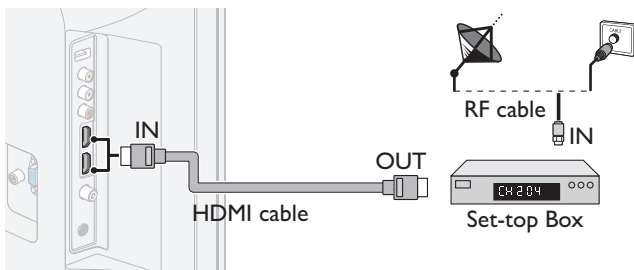
Connecting a Set-top Box, Blu-ray Disc / DVD Recorder via Composite Connectors and Analog Audio

Do Not place your Recorder too close to the Screen because some Recorders can be susceptible to Signals from the TV.
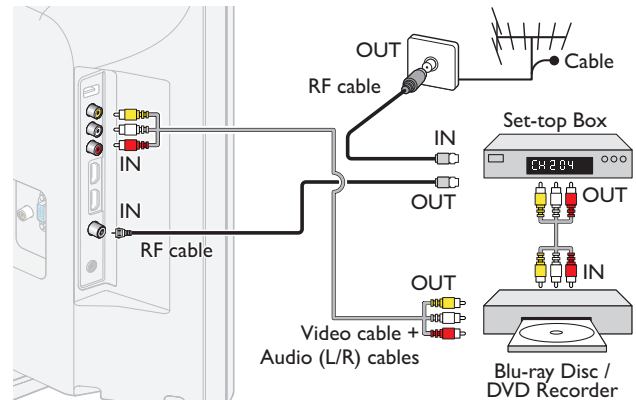
> **Note(s)**
>
> - If you have any question about the DTV's Antenna, visit *www.antennaweb.org* for further information.
> - Depending on your Antenna system, you may need different types of combiners (mixers) or separators (splitters) for HDTV Signal. The minimum RF bandpass on these Devices is 2,000MHz or 2GHz.
> - For your safety and to avoid damage to this Unit, please unplug the RF Coaxial Cable from the Antenna Input jack before moving the Unit.
> - If you did use an Antenna to receive Analog TV, it should also work for DTV reception. Outdoor or attic Antennas will be more effective than a Set-top Box or inside Antenna.
> - To Turn On your reception source easily between Antenna and Cable, Install an Antenna selector.
> - If you are not receiving a Signal from your Cable service, contact the Cable provider.

Plugging in the AC Power Cord

Make sure All the Necessary Connections are made before the AC Power Cord is plugged into an AC outlet.

> **! Caution(s)**
>
> - Do Not connect the AC Power Cord to an AC Power Supply outside the indicated voltage of this Unit (120V AC).
> - Connecting the AC Power Cord to a Power Supply outside of this range may result in Unit failure, degradation or electrical shock.

> **Note(s)**
>
> - Each time you plug in the AC Power Cord, no operations will be performed for several seconds. This is not a malfunction.

No supplied cables are used with these connections:

• Please purchase the Necessary Cables at your local store.

Before you connect the AC Power Cord:

Be sure other Devices are connected properly before plugging in the AC Power Cord.

Selecting your Connection quality

HDMI - Highest quality

Supports high-definition Digital signals and gives highest picture and sound quality. Video and Audio signals are combined in one cable. You must use HDMI for full high-definition Video and to enable fun-Link (HDMI CEC).

> **Note(s)**
>
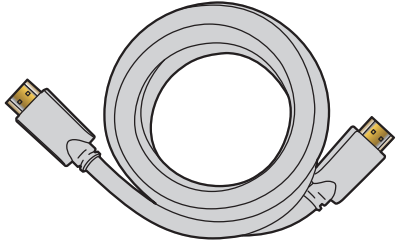> • Emerson HDMI supports HDCP (High-bandwidth Digital Contents Protection). HDCP is a form of Digital Rights Management that protects high definition content in Blu-ray Discs or DVDs.

Composite - Basic quality
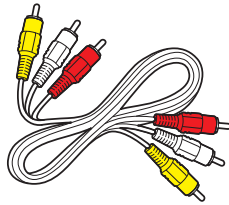
For Analog Connections. Composite Video / Audio Analog cable usually combine a yellow Video Cable with red / white Audio (L/R) Cables.

Connecting your Devices

HDMI Digital Connection

HDMI Connection offers the Highest Picture quality.
HDMI (High-Definition Multimedia Interface) transports high definition Digital Video and multi-channel Digital Audio through a single cable.

IN   OUT

Set-top Box
or

HDMI cable

Blu-ray Disc /
DVD Player
or

HD game console
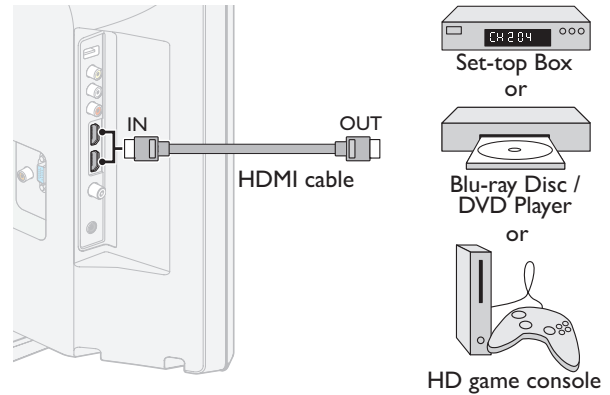
HDMI-DVI Connection

This Unit can be connected to your Device that has a DVI Terminal.
Use an HDMI-DVI Conversion Cable for this Connection and it requires Audio Cable for Analog Audio signal as well.

IN   Audio (L/R) cables   OUT

IN   HDMI-DVI   OUT   Cable Receiver
conversion cable   or
Satellite Set-top Box
with the DVI Output jack
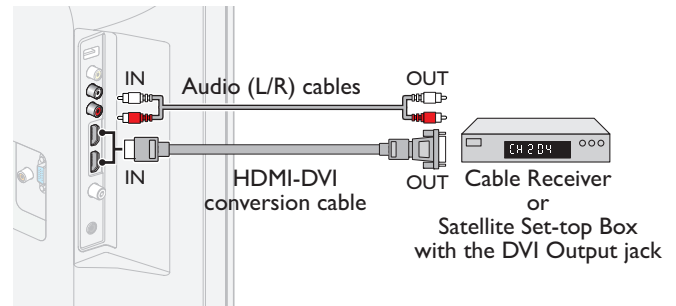
> **Note(s)**
>
> • Use an HDMI cable with the HDMI logo (a certified HDMI cable). High Speed HDMI cable is recommended for the Better compatibility.
>
> **For HDMI Connection**
>
> • The Unit accepts 480i / 480p / 720p / 1080i, 1080p 24/30/60Hz of Video signals, 32kHz / 44.1kHz and 48kHz of Audio signals.
> • This Unit accepts 5.1 channel Audio signal (Dolby Digital) and 2 channel Audio signal (LPCM).
> • The Unit does not play 7.1 ch Audio signals. With the connection via an HDMI cable, 7.1 ch Audio will be output as 5.1ch Audio signal.
> • This Unit accepts only signals in compliance with EIA861.
>
> **For HDMI-DVI Connection**
>
> • The Unit accepts 480i, 480p, 720p, 1080i and 1080p Video signals.
> • HDMI-DVI Connection requires separate Audio Connections as well and the Audio signals are Output as Analog (L/R) Audio.
> • DVI does not display 480i image which is not in compliance with EIA/CEA-861/861B.

Composite Analog Video Connection

Composite Analog Video Connection offers Standard Picture quality for Video Devices connected to the Unit.

If you connect to the Unit's Composite Video (VIDEO) Input jack, connect Audio Cables to the Audio (L/R) Input jacks. When the Audio is monaural, then only connect to the Audio L Input jack.

Video cable + Audio (L/R) cables

DVD Player
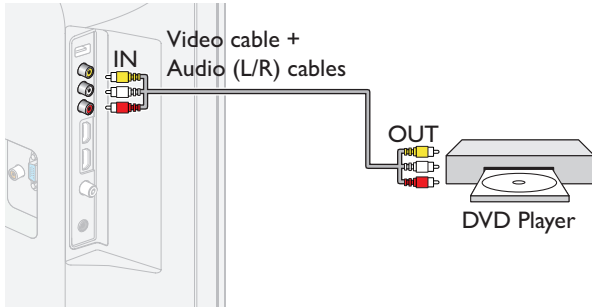
Digital Audio Output Connection

If you connect this Unit to an External Digital Audio Device, you can enjoy multi-channel Audio like 5.1ch Digital Broadcasting sound.

Use a Digital Audio Coaxial Cable to connect the Unit to External Digital Audio Devices.

Digital Audio Coaxial cable

Digital Home Theater Amplifier
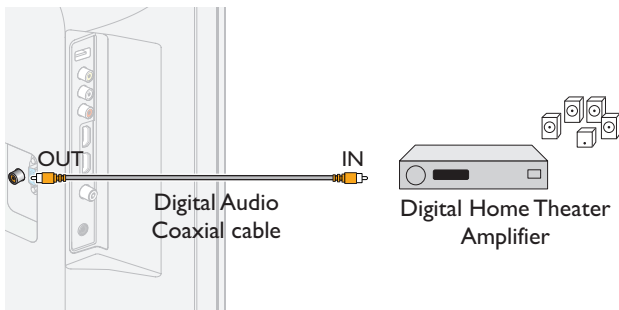
PC Connection

HDMI Connection

This Unit can be connected to your PC that has an HDMI terminal. Use an HDMI cable for this Digital Connection.
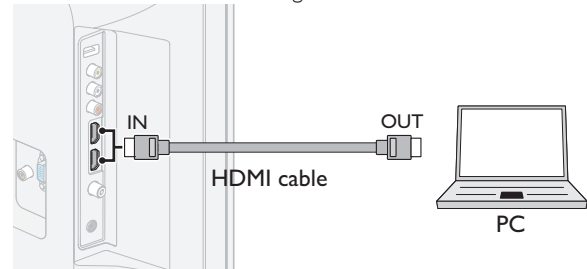
HDMI cable

PC

HDMI-DVI Connection

This Unit can be connected to your PC that has a DVI Terminal. Use an HDMI-DVI Conversion Cable for this Video Digital Connection and it requires Stereo mini 3.5mm Plug Audio Cable for Analog Audio signal as well.

Stereo Mini 3.5 mm Plug Audio cable

HDMI-DVI conversion cable

PC
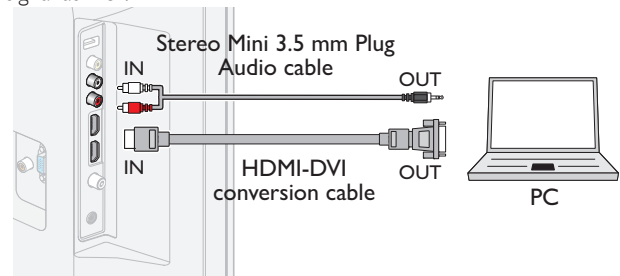
VGA Connection

This unit is equipped with a PC Input jack. If you connect this Unit to your PC, you can use this Unit as a PC monitor.

Use a VGA cable for this Video Connection and it requires a Stereo mini 3.5mm Plug Audio Cable for Analog Audio signal as well.

Stereo Mini 3.5 mm Plug Audio cable

VGA cable

PC
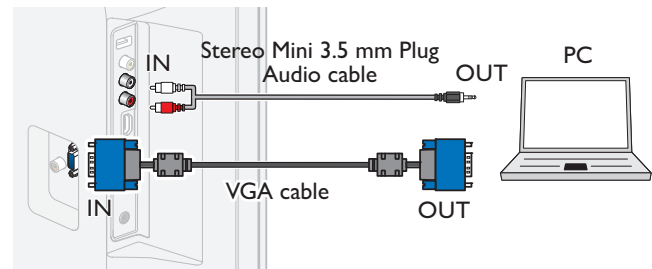
The following Video signals can be displayed:

Format	Resolution	Refresh rate
VGA	640 × 480	
SVGA	800 × 600	
XGA	1,024 × 768	60Hz
WXGA	1,280 × 768	
	1,360 × 768	

Other formats or non-standard signals will not be displayed correctly.

Note(s)

- Please purchase the HDMI-DVI Conversion Cable that has a ferrite core.
- The following operations may reduce noise.
    - Attach a ferrite core to the AC Power Cord of your PC.
    - Unplug the AC Power Cord and use the built-in battery of your Portable / Laptop PC.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable). High Speed HDMI cable is recommended for the Better compatibility.
- The Unit accepts 480i, 480p, 720p, 1080i and 1080p Video signals.
- HDMI-DVI Connection requires separate Audio Connections as well and the Audio signals are Output as Analog (L/R) Audio.
- DVI does not display 480i image which is not in compliance with EIA/CEA-861/861B.

*These Operations are accessible by Remote Control.
Some may also be accessible by the Main Unit's Control Panel.*

Initial Setup

This section will guide you through the Unit's Initial setting which includes selecting a Language for your On-screen Menu and Autoprogram, which Automatically scans and memorizes viewable channels.

Before you begin:

Make sure the Unit is connected to an Antenna or Cable.

1 After making All the Necessary Connections, press ⏻ to Turn On the Unit.

- It may take a few moments to Turn On the Unit for the first time.
- **Initial setup** menu appears Automatically after the Unit is Turned On.

2 Use ▲▼ to select the On-screen language from the choices (**English** / **Español** / **Français**) on the right side of the TV screen, then press **OK**.

3 Use ▲▼ to select **Antenna** for TV channels or **Cable** for CATV channels, then press **OK**.

Initial setup	
Make sure the antenna is connected to "ANTENNA IN" jack. Select your signal source. Antenna Cable Or ANTENNA IN	Antenna Cable Skip
⊕ Select (OK) OK BACK Back MENU Skip	

- When **Antenna** is selected, the TV detects Antenna signals. It searches for DTV and Analog TV channels available in your area.
- When **Cable** is selected, the TV detects signals supplied by Cable. It searches for DTV, Analog TV and Cable channels available in your area.
- **Autoprogram** will begin.
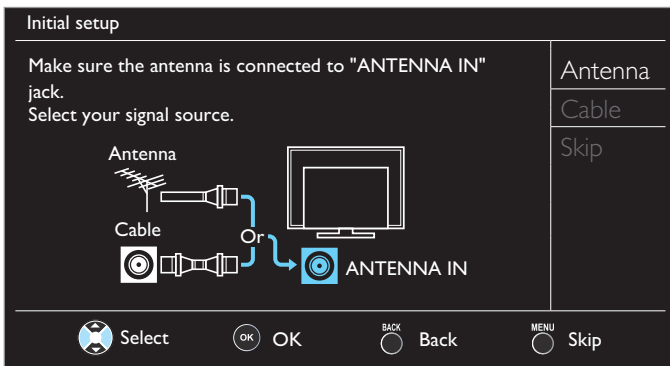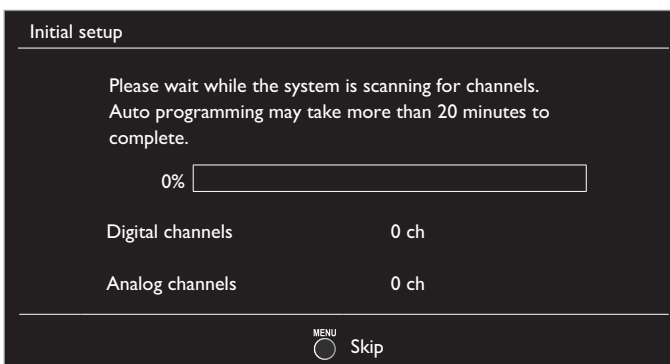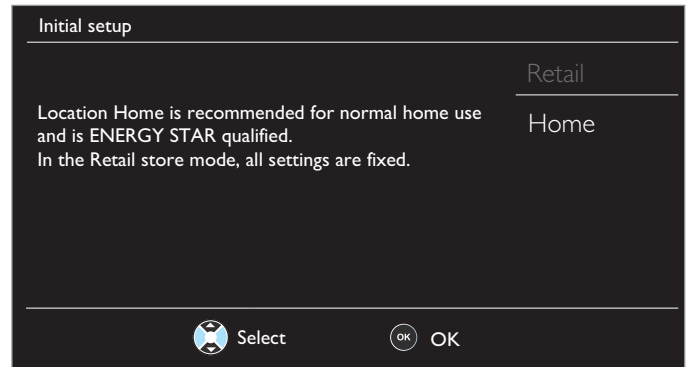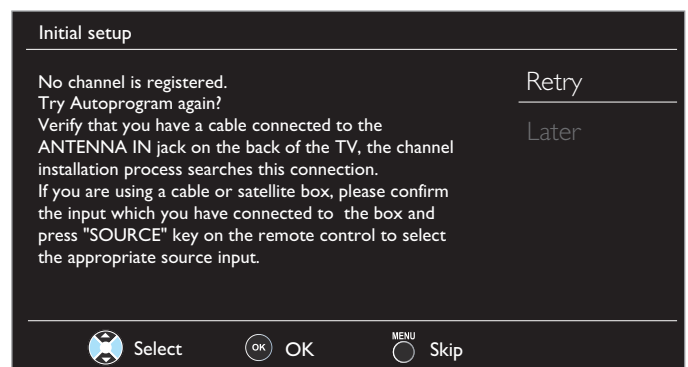
Initial setup
Please wait while the system is scanning for channels. Auto programming may take more than 20 minutes to complete. 0% [   ] Digital channels   0 ch Analog channels   0 ch
MENU Skip

4 Use ▲▼ to select the desired Location setting, then press **OK**. **Home** is the ENERGY STAR® qualified setting.

Initial setup	
	Retail
Location Home is recommended for normal home use and is ENERGY STAR qualified. In the Retail store mode, all settings are fixed.	Home
⊕ Select (OK) OK	

- Select **Home**, the Unit is set to maximize the energy efficiency for home setting and it can be adjusted through a choice of Picture and Sound quality according to your preference. Use this setting to remove the E-sticker, if visible on the display. ➡ **p. 29**
- You must set **Home** in step **4**. Otherwise, **Picture** and **Sound** settings you adjusted will not be memorized after the Unit goes into Standby mode.
- When the Initial setup is completed, the Lowest Memorized Channel with the confirmation message of the Location setting will be displayed on the TV screen.
- Select **Retail**, the Unit will be set up with predefined settings for retail displays. In this setting, the Power Consumption may possibly exceed the limited requirement limit of the ENERGY STAR® qualification.

▤ Note(s)

- If you are not receiving a signal from your Cable service, contact the Cable provider.
- If you press ⏻ or **MENU** during Autoprogram, this Setup of TV channels will be Cancelled.
- The Initial Autoprogram function can be executed for either **Antenna** or **Cable** only Once. When you change the Connection (Antenna / Cable), select **Autoprogram** again. ➡ p. 23
- If there is no signal Input from the Antenna terminal and no operation for several seconds after you Turn On the Unit, Helpful hints appears. Follow the instructions listed on the TV screen.

Initial setup	
No channel is registered. Try Autoprogram again? Verify that you have a cable connected to the ANTENNA IN jack on the back of the TV, the channel installation process searches this connection. If you are using a cable or satellite box, please confirm the input which you have connected to the box and press "SOURCE" key on the remote control to select the appropriate source input.	Retry Later
⊕ Select (OK) OK MENU Skip	

After an Initial Setup is completed...

- If you want to scan the channels Automatically again.
  Autoprogram ➡ **p. 23**
- You can add the desired Cable and Analog channels not memorized by Autoprogram.
  Add channels ➡ **p. 24**
- If you want to change to another Language.
  Language ➡ **p. 30**
- If you want to change the Location setting.
  Location ➡ **p. 29**

4 Use your TV

Switching on your TV and putting it in Standby mode
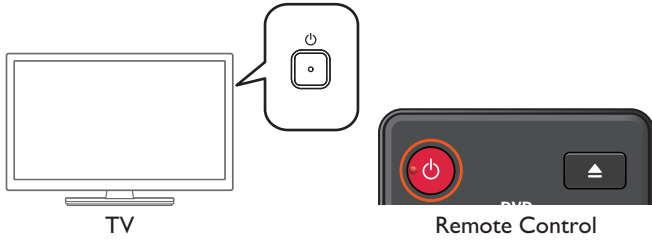
* Control Keys are on the Side of the Unit

TV   Remote Control

To Turn the TV On from Standby or Off to Standby

• Press ⏻ on the Side of the Unit or the Remote Control.

Note(s)

• Energy Consumption contributes to air and water pollution. When the AC Power Cord is plugged in, your TV consumes energy with a very low standby Power Consumption.

Adjusting Volume

* Control Keys are on the Side of the Unit
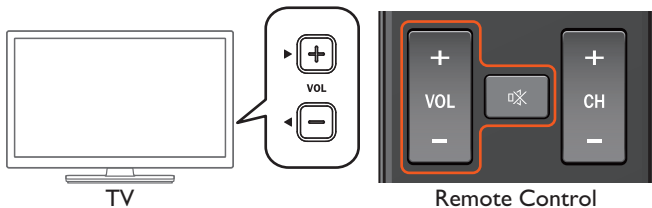
TV   Remote Control

To decrease or increase Volume

• Press **VOL** ◀ (-) / ▶(+) on the Side of the Unit or press **VOL + / –** on the Remote Control.
  VOL ◀(-) : Volume Down
  VOL ▶(+) : Volume Up

To mute or unmute sound

• Press 🔇 on the Remote Control to Mute the sound.

• Press 🔇 again on the Remote Control or **VOL + / –** to recover the original sound.

Switching Channels

* Control Keys are on the Side of the Unit
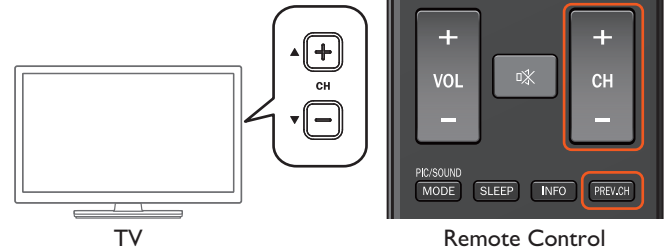
TV   Remote Control

To select Channels by using CH▼ (+) / ▲(-) or CH + / –

• Press **CH** ▼(-) (Down) / ▲(+) (Up) on the Side of the Unit or press **CH + / –** on the Remote Control.

To select Channels by using the NUMBER keys

Digital TV Operation

• For Digital channels, press a number followed by a dot ''•'' and the corresponding sub channel number.
  - When selecting Digital channel 11.1
    Be sure to press • before entering the subchannel number.

    1 → 1 → · → 1 → OK
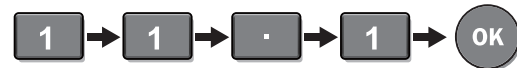
Cable / NTSC (Analog) TV Operation

  - When selecting Cable or Analog channel 11

    1 → 1 → OK

Press **PREV.CH** to return to the previously viewed channel.

Note(s)

• To select the non-memorized Channel list channels, use **the NUMBER keys**.

• **No signal** will appear on the TV screen after the subchannel broadcast is over.

• **Audio only program** message will appear on the TV screen, when you receive only a sound signal.

Watching Channels from an External Device

Switching Each Input Mode can easily switch with the Remote Control between TV (DTV or Analog TV) and External Devices when they are connected to the Unit.

1 Turn On the Set-top Box or the Connected Device.
- The picture from the Set-top Box or the Connected Device might appear Automatically on the TV screen.
  If the picture does not appear

① Press **SOURCE** Repeatedly to select the Set-top Box or the Connected Device and wait a few seconds between each selection until the Picture appears.
- Pressing ▲ reverses the direction of the Input modes.

e.g.)

② Use the Remote Control for the Set-top Box or the Connected Device to select Channels to view.

Changing Picture and Sound Settings

1 Press **PIC/SOUND MODE** to set your TV to a predefined Picture and Sound setting.

2 Use ▲▼ to select one of the following settings :

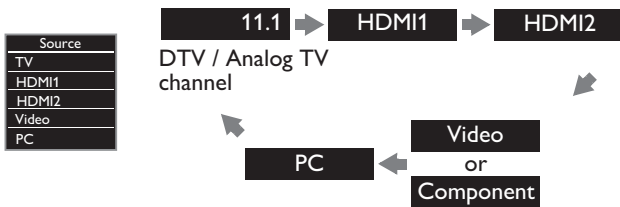| Auto picture	Auto sound	Description
Personal		The Customized Settings you defined using the **Picture** and **Sound** menu
Standard		For normal TV viewing
Vivid		Enhanced picture contrast, sharpness and sound for viewing in a well-lit room
Sports		Brilliant picture settings and clear sound for high action
Movie		Deep picture and powerful sound settings for a cinematic experience
Game	–	Optimized for PCs and game consoles
Eco	–	Eco TV settings for low Power Consumption
–	Music	Optimized for Music Playback
–	News	Controls Picture Tone and Sets the Anchor's Voice at a comfortable volume level

Sleep Timer

Sleep Timer can set the Unit to go into Standby mode after an incremental period of time.

Press **SLEEP** Repeatedly to change the amount of time (increments the time by 30 minutes up to 120 minutes).
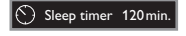
Press **SLEEP** Once to call up the display for checking the remaining time.
- To cancel Sleep Timer, press **SLEEP** Repeatedly until **Off** is displayed.

Switching Audio Mode

Digital TV Operation

1 Press **SAP / AUDIO** to display the currently selected Language and the number of available Languages.

2 Press **SAP / AUDIO** Repeatedly to cycle through the available Audio Languages.
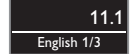
📋 Note(s)

- Available Languages differ depending on the Broadcast.
- **Other** is displayed when the Audio Language cannot be found or available Languages are other than English, French or Spanish.

Cable / NTSC (Analog) TV Operation

1 Press **SAP / AUDIO** to display the currently selected Audio mode.

2 While receiving an MTS broadcast, press **SAP** Repeatedly to cycle through the available Audio Channels.

e.g.) When All Audio Modes are available
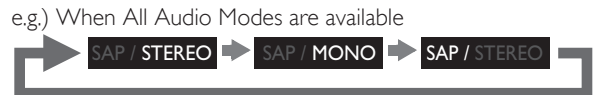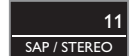
Stereo : Outputs Stereo Audio
SAP : Outputs a Second Audio Program
Mono : Outputs Mono Audio

Changing Picture Format

Display Modes can be Selected when your TV receives a 16:9 or 4:3 Video Signal.

Three types of Display Modes can be Selected for a PC Input Signal.

Press **PICTURE SIZE** ⟷ Repeatedly to Switch the TV Aspect Ratio.

For 16:9 Video signal

| | Normal | 4:3 | Movie expand |

Full can also be selected after **Wide** if an HDMI Device is selected. This picture format similarly displays like **Normal**.

| Full (HDMI Device only) | Wide | Zoom |

Normal	Original size.
4:3	Shortened horizontally. Sidebars appear on both edges of the screen.
Movie expand	Vertically stretched to fill the screen. This only crops out the top of the picture.
Zoom	Maximum size without changing its horizontal and vertical ratio.
Wide	Horizontally stretched picture. This crops out the left and right sides of the picture.

For 4:3 Video signal

| Normal | 16:9 | Movie expand |

Full can also be selected after **Wide** if an HDMI Device is selected. This picture format similarly displays like **16:9**.

| Full (HDMI Device only) | Wide | Zoom |

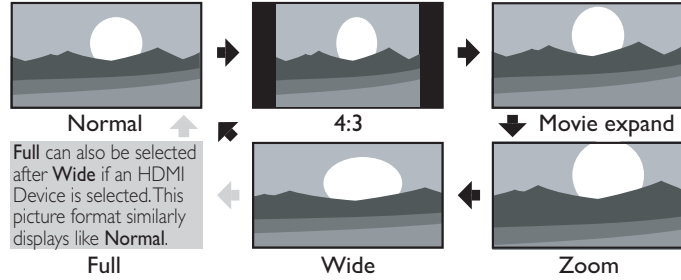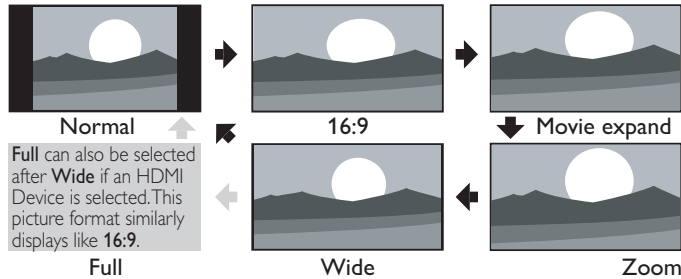|	
Normal	Original size. Sidebars appear on both edges of the screen.
16:9	Stretched horizontally to fill the screen.
Movie expand	Stretched more vertically at the top of the screen. This crops out the top of the picture.
Zoom	Maximum size that is more vertically stretched to fill the screen. This crops out the top and bottom of the picture.
Wide	Original size and the edges stretched horizontally to fill the screen.

For PC Input signal

| Normal | Full | Unscaled |
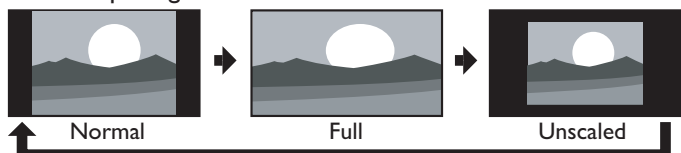
- This Unit can also be connected to your PC that has a DVI Terminal. Use an HDMI-DVI Conversion Cable for this Video Connection and it requires a Stereo Mini 3.5mm Plug Audio Cable for Analog Audio signal as well.

- Refer to 16:9 Video Signal on this page if the PC has an HDMI Output.

Normal	Proportionately stretched picture. Sidebars appear on both edges of the screen.
Full	Stretched out of proportion to fill the screen.
Unscaled	Original size.

TV Screen information

You can display the currently selected channel or other information such as the aspect ratio on the TV screen.

In the Digital mode, the detailed broadcasting information for the current off the air channel, such as Program title, are displayed.

1   Press **INFO**.
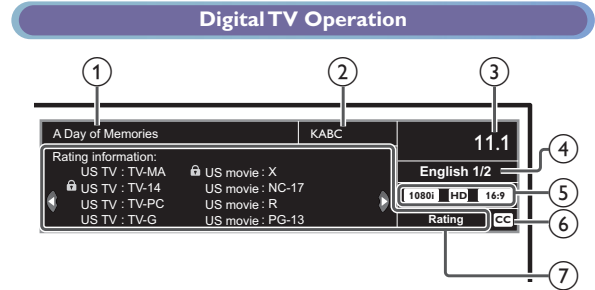
① Program title
② Broadcast station
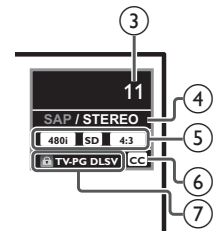
③ Channel Number
   Switching channels ➡ p. 17
④ Audio Language (DTV) / Audio mode (Analog TV)
   Switching Audio Mode ➡ p. 18
⑤ Program's image Aspect Ratio
   Changing Picture Format ➡ p. 19
⑥ CC (Not available if Closed Caption is set to Off)
   Caption settings ➡ p. 24
⑦ Child Lock rating
   Child and Ratings Lock ➡ p. 26

2   Press **INFO** to hide the information.

📋 Note(s)

- While the TV screen information is displayed, the Closed Caption function is interrupted.
- In External Input mode, the following screen is displayed; e.g.) When an External Device is connected to Video Input jack.

- The information display will Automatically disappear in 5 seconds.

5 Making more use with your TV

This section describes the overview of the Main Menu displayed when you press **TV MENU**.
The Main Menu consists of the function setting items below.

Displaying the Main Menu

1 Press **TV MENU** to display the Main Menu.
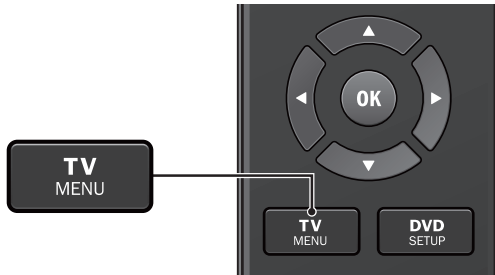
Picture	Auto picture	Personal
Sound	Backlight	18
Setup	Contrast	50
Features	Brightness	30
Language	Color	30
	Tint	0
	Sharpness	2
	Advanced settings	

2 Use ▲▼ to select the desired Menu and an item, then press **OK** or use ▲▼◄► to determine the setting.

Picture ➠ p. 21
Adjusting the Picture Mode or customize the Picture quality as your preference.

Sound ➠ p. 22
Adjusting the Sound Mode, Equalizer and some other Sound functions.

Setup ➠ p. 23
Scanning the Channels available in your area and see what the Antenna Signal levels are.

Features ➠ p. 24
Adjusting the Closed Caption, Parental Guide and some other useful functions.

Language ➠ p. 30
You can choose English, Spanish or French as your On-screen Language.

3 When the Setting is completed, press **TV MENU** or **BACK** to Exit.

Picture

Before you begin:

You must set **Location** to **Home**.

Otherwise, personalized Picture and Sound settings will not be memorized after the Unit goes into Standby Mode.

1   Press **TV MENU** and use ▲ ▼ to select **Picture**, then press **OK**.

Picture	Auto picture	Personal
Sound	Backlight	18
Setup	Contrast	50
Features	Brightness	30
Language	Color	30
	Tint	0
	Sharpness	2
	Advanced settings	

2   Use ▲ ▼ ◄► to select the item you want to adjust, then press **OK**.

	to select the desired setting, then press **OK**.	
Auto picture	(**Personal**, **Standard**, **Vivid**, **Sports**, **Movie**, **Game** and **Eco**) When you adjust the following settings, **Personal** picture will be set Automatically when **Location** is set to **Home**.	
	◄ Cursor	Cursor ►
Backlight	to Reduce Power Consumption and Reduce Backlight Brightness	to Increase Power Consumption and Brightness
Contrast	to Decrease Contrast	to Increase Contrast
Brightness	to Decrease Brightness	to Increase Brightness
Color	to Decrease Color Intensity	to Increase Color Intensity
Tint	to Add Red	to Add Green
Sharpness	to Soften	to Sharpen
Advanced settings	to Select the desired Setting, then press **OK**. (**Color alignment**, **Noise reduction**, **Black stretch**, **Dynamic contrast** and **Gamma**)	

• ***You can set a Particular Picture Quality using Advanced settings.***

Picture	Color alignment	Normal
Sound	Noise reduction	On
Setup	Black stretch	On
Features	Dynamic contrast	On
Language	Gamma	Gamma2

	Color temperature mode	to set the picture color temperature to **Personal** (**Cool**, **Normal** or **Warm**) When you adjust the following settings, **Personal** picture will be set Automatically when **Location** is set to **Home**.	
		◄ Cursor	Cursor ►
Color alignment	Red gain	to Decrease Red Contrast	to Increase Red Contrast
	Green gain	to Decrease Green Contrast	to Increase Green Contrast
	Blue gain	to Decrease Blue Contrast	to Increase Blue Contrast
	Red offset	to Decrease Red Brightness	to Increase Red Brightness
	Green offset	to Decrease Green Brightness	to Increase Green Brightness
	Blue offset	to Decrease Blue Brightness	to Increase Blue Brightness
Noise reduction	Off	to Set **Noise reduction** to **Off**	
	On	to Reduce Noise in an Image	
Black stretch	Off	to Set **Black stretch** to **Off**	
	On	to Enhance Black Color	
Dynamic contrast	Off	to Set **Dynamic contrast** to **Off**	
	On	to Enhance Contrast in an Image Automatically	
Gamma	Gamma1	to Change the Gamma setting (changes the Brightness and Contrast in the picture)	
	Gamma2		
	Gamma3		

Sound

Before you begin:

You must set **Location** to **Home**. ⇒ **p. 29**

Otherwise, personalized Picture and Sound settings will not be memorized after the Unit goes into Standby Mode.

1   Press **TV MENU** and use ▲▼ to select **Sound**, then press **OK**.

Picture	Auto sound	Standard
Sound	Equalizer	
Setup	Virtual surround sound	On
Features	Auto volume leveling	Off
Language	TV speakers	On
	Digital output format	Multichannel
	Primary MTS	Stereo

2   Use ▲▼◄► to select the item you want to adjust, then press **OK**.

Auto sound	to select the desired setting, then press **OK**. (**Personal**, **Standard**, **Vivid**, **Sports**, **Movie**, **Music** and **News**) When you adjust the following settings (**Equalizer**, **Virtual surround sound** and **Auto volume leveling**), **Personal** sound will be set Automatically.

Adjust the tonal quality for each frequency.

Equalizer	Cursor ▼	Cursor ▲
	to adjust each level of tonal quality. Press **BACK** to go back to the previous menu.	

Virtual Surround Sound gives you the Stereophonic virtual space through your existing 2-channel Stereo System.

Virtual surround sound	Off	Natural Effect
	On	Emphasized Effect

This function keeps a constant loudness level between the TV commercials and the Programs.

Auto volume leveling	Off	to Remove the **Auto volume leveling**
	On	to Reduce Volume Differences between the TV Commercials and the Programs

You can select the Audio Output from the Unit's speakers or not. If your amplifier is HDMI link function compatible and connected by an HDMI cable to this Unit, some sound operations such as volume up can be changed by using this Unit's Remote Control.

TV speakers	On	to Output Sound from the Unit's Speakers
	Off	No Output Sound from the Unit's Speakers
	CEC Link	to Control Audio Output from your connected fun-Link (HDMI CEC) Compliant Devices with **VOL + / –** by using this Unit's Remote Control.

You can select Audio Output through a Digital Audio Output connector.

Digital output format	Multichannel	to Output Multichannel Signals (When the Audio of the Content is PCM, it will be Output in PCM even if **Multichannel** is selected.)
	PCM	to Output PCM format.

You can set the Output mode as a default for the Sound mode (Analog TV only).

This setting is not interlocked when you change the Output mode by pressing **SAP / AUDIO**. Refer to **Switching Audio Mode**. ⇒ **p. 18**
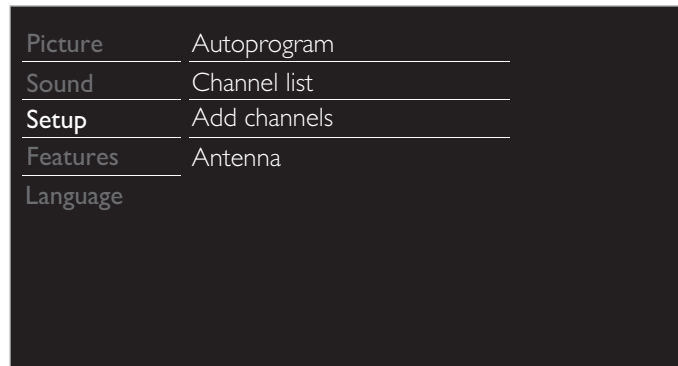
Primary MTS	Stereo	to Output Stereo Audio
	Mono	to Output Mono Audio
	SAP	to Output Second Audio Program

Setup

Before you begin:

Make sure the Unit is connected to Antenna or Cable.

1 Press **TV MENU** and use ▲ ▼ to select **Setup**, then press **OK**.

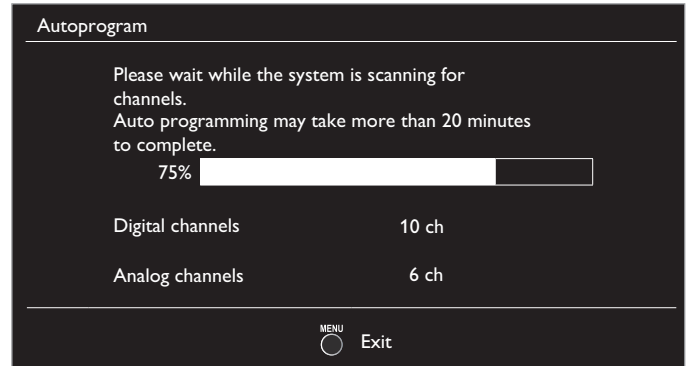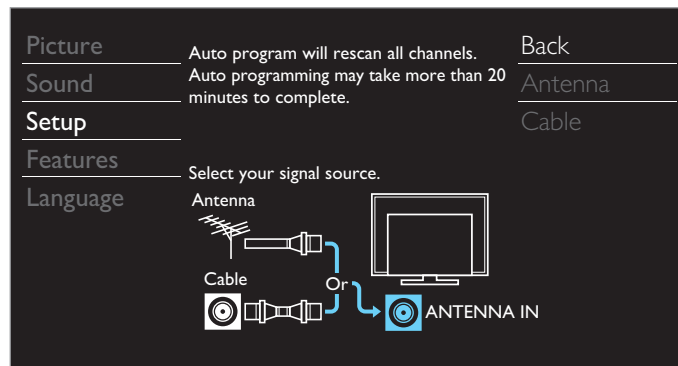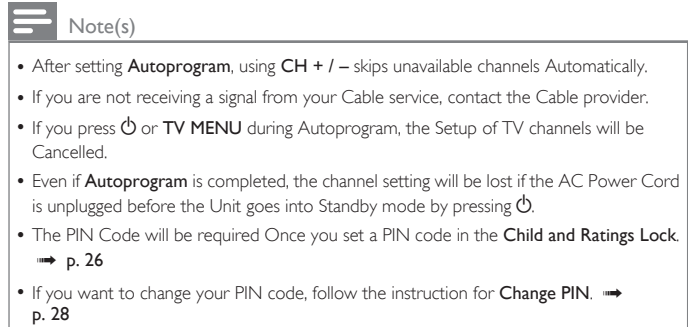|	
Picture	Autoprogram
Sound	Channel list
Setup	Add channels
Features	Antenna
Language	

2 Adjust the following items.

Autoprogram

Be sure the RF cable is correctly connected to this Unit and you are registered with your Cable TV provider when you Install Cable channels.

1 Use ▲ ▼ to Select **Autoprogram**, then press **OK**.

- If you run **Autoprogram** when you have Locked Channels, a Message appears asking to enter your PIN. Enter your Child Lock PIN in order to Complete the Installation. (Default PIN code is **0, 0, 0, 0**.) You need to reset or set the Channel Lock again after the Installation.

2 Use ▲ ▼ to Select an appropriate Option, then press **OK**.

- When **Antenna** is selected, the TV Detects Any Off-the-Air Antenna Signals. It searches for ATSC (Digital) and NTSC (Analog) Channels available in your Area.
- When **Cable** is selected, the TV detects signals supplied by Cable. It searches for DTV, Analog TV and Cable channels available in your area.

Picture	Auto program will rescan all channels. Auto programming may take more than 20 minutes to complete.	Back
Sound		Antenna
Setup		Cable
Features	Select your signal source.	
Language	Antenna	
	Cable Or ANTENNA IN	

Autoprogram
Please wait while the system is scanning for channels. Auto programming may take more than 20 minutes to complete.
75%
Digital channels   10 ch
Analog channels   6 ch
MENU ○ Exit

- When the Scanning and Memorizing of Available Channels is Completed, the Lowest Memorized Channel will be Displayed.

Note(s)

- After setting **Autoprogram**, using **CH + / −** skips unavailable channels Automatically.
- If you are not receiving a signal from your Cable service, contact the Cable provider.
- If you press ⏻ or **TV MENU** during Autoprogram, the Setup of TV channels will be Cancelled.
- Even if **Autoprogram** is completed, the channel setting will be lost if the AC Power Cord is unplugged before the Unit goes into Standby mode by pressing ⏻.
- The PIN Code will be required Once you set a PIN code in the **Child and Ratings Lock**. ➡ p. 26
- If you want to change your PIN code, follow the instruction for **Change PIN**. ➡ p. 28

Channel list

The channels selected here can be skipped when selecting the channels using **CH + / −**.
Those channels can still be selected with **the NUMBER keys**.

1 Use ▲ ▼ to select **Channel list**, then press **OK**.

2 Use ▲ ▼ to select the channel you want to remove, then press **OK**.

Picture		DTV	11.1
Sound	Highlight channels for Ch Up/Down key selection.	DTV	11.2
Setup		DTV	11.3
Features			
Language			
	✛ Ch Select (OK) Watch / Skip BACK ○ Back		
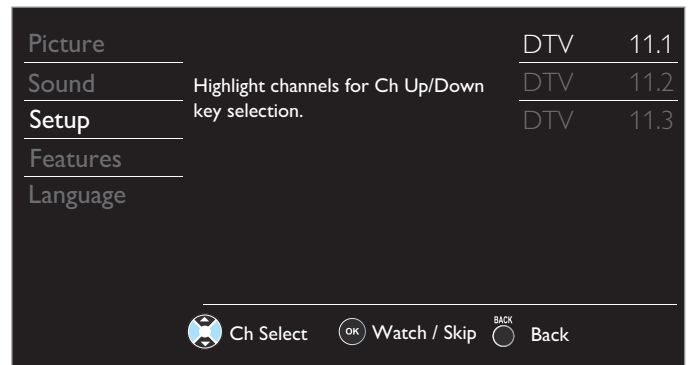
- The channel display for the removed channel darkens. You will not be able to select the channel again using **CH + / −**.
- To reactivate a removed channel, use ▲ ▼ and press **OK**. The registered channels are highlighted.
- When you remove a main channel, its subchannels are removed as well.

Note(s)

- The channel with **DTV** indicated on the display is ATSC. Otherwise the channel is Analog TV (NTSC).

Add channels

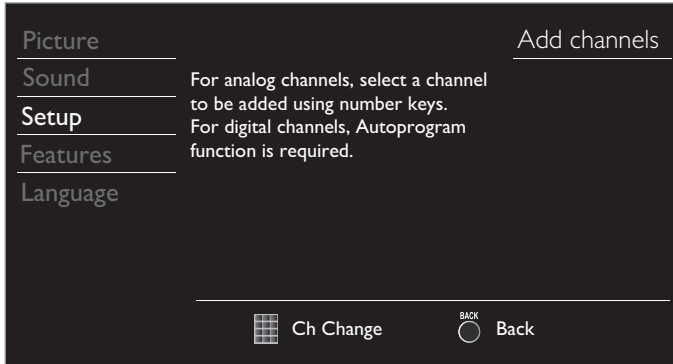This function lets you add the off the air Analog TV or Analog Cable channels that were not added by the Autoprogram due to reception conditions during the Initial Setting.

1 Use ▲▼ to select **Add channels**, then press **OK**.

2 Use **the NUMBER keys** to enter the number of the channel you want to add, then press **OK**.

Picture
Sound
Setup
Features
Language

Add channels

For analog channels, select a channel to be added using number keys. For digital channels, Autoprogram function is required.

⊞ Ch Change   ^{BACK}◯ Back

☰ Note(s)

- If Setup completes successfully, **Added to the channel list.** is displayed.
- If External Input is used, it is not possible to register the channel and **Unavailable** will be displayed on the TV screen.
- Some channels cannot be selected by **CH + / −**. Use **the NUMBER keys** to select the non-memorized Channel list channels.

Antenna Confirmation

Digital TV Operation

This function lets you check the Digital signal strength of each channel.

1 Use ▲▼ to select **Antenna**, then press **OK**.

2 Use **the NUMBER keys** or **CH + / −** to select the channel for which you want to check the Digital signal strength.

Picture
Sound
Setup
Features
Language

Back

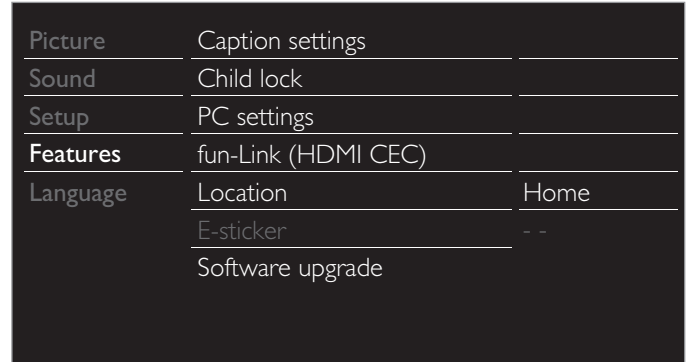Current   50 Max   50

⊞ Ch Change
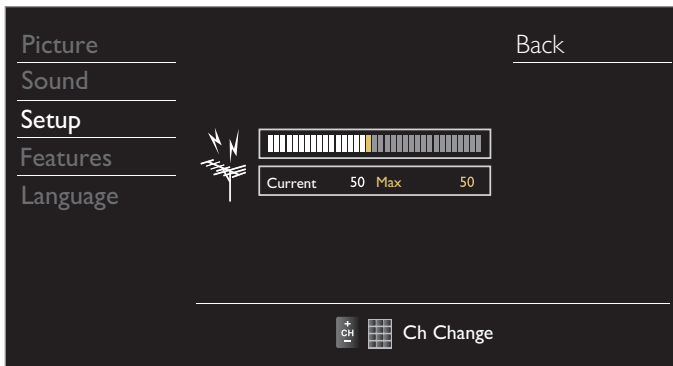
☰ Note(s)

- If the channel is set to an Analog channel or External Input, you cannot confirm the Antenna condition.

Features

1 Press **TV MENU** and use ▲▼ to select **Features**, then press **OK**.

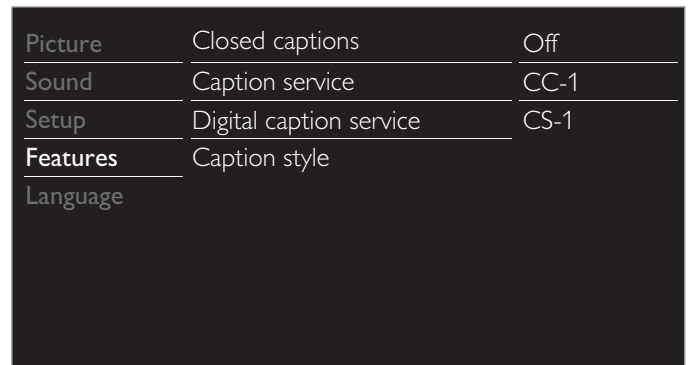| Picture	Caption settings	
Sound	Child lock	
Setup	PC settings	
Features	fun-Link (HDMI CEC)	
Language	Location	Home
	E-sticker	- -
	Software upgrade	

2 Adjust the following items.

Caption settings

Closed Captions displays the Audio portion of the Program as Superimposed Text over the Video.

1 Use ▲▼ to Select **Caption settings**, then press **OK**.

Picture	Closed captions	Off
Sound	Caption service	CC-1
Setup	Digital caption service	CS-1
Features	Caption style	
Language		

2 Use ▲▼◄► to select the Feature you want to use, then press **OK**.

You can choose the Closed Caption display.

	Off	Closed Caption is not displayed.
Closed captions	**On**	Closed Caption is always displayed.
	CC w/ mute	Closed Caption is displayed when the Sound is Off.

Digital TV Operation

In addition to the basic Closed Caption, DTV has its own Closed Caption called Digital caption service. Use this menu to change the settings for Digital caption service.

Digital caption service	**CS-1** to **CS-6**	Select one of these before changing any other item in **Caption settings** menu. Choose **CS-1** under normal conditions.

Cable / NTSC (Analog) TV Operation

Caption service	**CC-1** and **T-1**	The primary Closed Captions and Text Services. The Closed Captions or Text is Displayed in the same Language as the Program's Dialog (up to 4 lines of script on the TV Screen).
	CC-3 and **T-3**	Serve as the preferred Data Channels. The Closed Captions or Text is often a Secondary Language.
	CC-2, **CC-4**, **T-2** and **T-4**	Rarely available and Broadcasters use them only in Special conditions, such as when **CC-1** and **CC-3** or **T-1** and **T-3** are Not available.

- There are 3 Display modes according to Programs:

Paint-on	Displays Characters on the TV screen immediately.
Pop-on	Once Characters are Stored in Memory, they are Displayed All at Once.
Roll-up	Displays the Characters Continuously by Scrolling (max. 4 lines).

You can choose the Font (Size, Color, etc), Background and other Characteristics of the Closed Captions Text.

Caption style	**User setting**	**Off**	Caption style will not have any effect.
		On	Caption style can be changed.
	Font	**Font style**	Closed Captioning font style, size, color and transparency (opacity) can be changed.
		Font size	
		Font color	
		Font opacity	
	Background	**Background color**	Background color and transparency (opacity) of the displayed caption can be switched.
		Background opacity	
	Edge	**Edge color**	Edge color and type of the displayed caption can be switched.
		Edge type	

Picture display

So, you must be Philip. Hi! I'm pleased to meet you.

Font
(**Font style**, **Font size**, **Font color** and **Font opacity**)

Edge
(**Edge color** and **Edge type**)

Background
(**Background color** and **Background opacity**)

- Review your setting choice made above by looking in the upper right corner of the displayed setting box (not All selections show the differences selected).

Note(s)

- Closed Caption will NOT be displayed when you are using an HDMI Connection.
- **Digital caption service** that you can switch differs depending on the broadcast description.
- Caption style will not have any effect if the User setting is set to Off.
- Closed Captions Service may not be controlled by this Unit's Menu options if you are watching television through an External Cable or Satellite Set-top Box. In which case you will need to use the Menu options on the External Set-top Box to control Closed Captions.
- The Captions do not always use correct Spelling and Grammar.
  Not all TV Programs and product Commercials include Closed Captions information. Refer to your area TV Program Listings for the TV Channels and times of Closed Captions shows. The Closed Captions Programs are usually noted in the TV Listings with a Service Mark such as **CC**.
- Not all Closed Captions Services are used by a TV Broadcaster during the Transmission of a Closed Caption Program.
- To show the Closed Caption on your TV screen, Broadcast signal must contain the Closed Caption data.
- Captions and texts may not exactly match the TV voice.
- Changing channels may delay the Closed Caption for a few seconds.
- Adjusting or muting the volume may delay the Closed Caption for a few seconds.
- Abbreviations, symbols and other grammatical shortcuts may be used in order to keep pace with the on-screen action. This is not a malfunction.
- The caption or text characters will not be displayed while the main menu or functions display is shown.
- If a black box appears on the TV screen, this means that the Closed Caption is set to the text mode. To clear the box, select **CC-1**, **CC-2**, **CC-3**, or **CC-4**.
  Refer to **Caption Settings:** ➡ p. 24
- If the Unit receives poor quality television signals (mainly when the Analog (NTSC) is received), the captions may contain Errors or there might be no captions at all. Some possible causes of poor quality signals are:
  - Automobile ignition noise
  - Electric motor noise
  - Weak signal reception
  - Multiplex signal reception (ghosts or screen flutter)
  - Data dropout and Pixelation (for DTV only)
- The Unit retains the Closed Caption setting if the Power fails.
- When the Unit receives special effects Playback signal (e.g. Search, Slow and Still) from a VCR's Video Output channel (ch3 or ch4), the Unit may not display the correct caption or text.
- The EUT setting that satisfies § 79.102 (e) is as follows:
  - Font: Mono-font
  - Character Size: Large
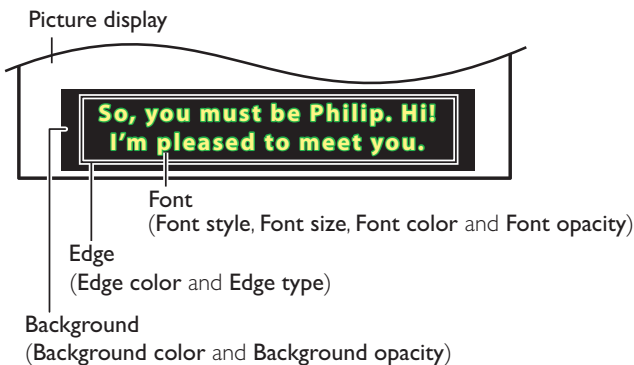
Child and Ratings Lock

You can prevent your children from watching certain Programs or certain Channels by locking the TV Controls and by using Ratings.

1 Use ▲ ▼ to select **Child lock**, then press **OK**.

Picture	Caption settings	
Sound	Child lock	
Setup	PC settings	
Features	fun-Link (HDMI CEC)	
Language	Location	Home
	E-sticker	- -
	Software upgrade	

2 Use **the NUMBER keys** to enter the 4-digit numbers for your PIN code.

- When you have not set up your PIN code, enter **0, 0, 0, 0**.
- When the PIN code is correct, **Child lock** menu is displayed.

See the following description for setting each item.

Picture	Channel lock
Sound	US movie ratings lock
Setup	US TV ratings lock
Features	Canadian English rating
Language	Canadian French rating
	Region ratings lock
	Clear region ratings lock
	Change PIN

Note(s)

- When you select a rating and set it to ☒ or ☐, the higher ratings will be Blocked Automatically. The lower ratings will be available for viewing.
- When you set the highest rating to ☐, All ratings turn to ☐ Automatically.
- To Block any inappropriate programs, set your limits in **US movie ratings lock**, **US TV ratings lock** and **Region ratings lock**.
- The Child Lock setting will be retained after a Power failure or after the Power is removed for longer than 10 seconds (except the PIN code reverts to 0000).
Child and Ratings Lock ➠ p. 26
- **Region ratings lock** and **Clear region ratings lock** will be available when the Unit receives a Digital broadcast using the New rating system.
- For the United States, the Unit may download the Region Ratings Lock Table, if required.
- The Canadian rating systems on this Unit are based on CEA-766-A and CRTC policy.

Channel lock

Particular Channels or External Input modes can be invisible in this function.

3 Use ▲ ▼ to Select **Channel lock**, then press **OK**.

4 Use ▲ ▼ to Select the Particular Channels or External Input, then press **OK** Repeatedly to Switch between Block and View.

- ☒ indicates that the Channel or Input Source is Locked (Block).
- ☐ indicates that the Channel or Input Source is Not Locked (View).

Picture	☐ HDMI1	
Sound	☐ HDMI2	
Setup	☐ Video	
Features	☐ PC	
Language	☐ 40.1	DTV
	☒ 40.2	DTV

Setting US Movie and TV Ratings

US Movie Ratings Lock is the Rating System created by MPAA.
US TV Ratings Lock has Controlled Access to Individual Programs based on their Age and Content rating.

3 Use ▲▼ to Select **US movie ratings lock** or **US TV ratings lock**, then press **OK**.

4 Use ▲▼ to Select the Desired Rating, then press **OK** Repeatedly to Switch between Block and View.

- For US TV Ratings, you can further set the Sub Ratings to Block Specific Elements within Programs.
- ☒ or ☑ indicates that the Rating is Locked.
- ☐ indicates that the Rating is Not Locked (View).

US movie ratings lock

Picture	
Sound	☐ All
Setup	☒ NR
Features	☐ G
Language	☐ PG
	☐ PG-13
	☐ R
	☐ NC-17
	☐ ✕

US TV ratings lock

Picture	
Sound	☐ All
Setup	☒ None
Features	☐ TV-Y
Language	☐ TV-Y7
	☐ TV-G
	☐ TV-PG
	☐ TV-14
	☐ TV-MA

US Movie ratings	US TV ratings	Description
All		All Ratings Locked including No Rating
NR	None	No Rating
–	TV-Y	Appropriate for All Children
–	TV-Y7	Appropriate for All Children 7 and Older
G	TV-G	General Audience
PG	TV-PG	Parental Guidance Suggested
PG-13	–	Unsuitable for children under 13
–	TV-14	Unsuitable for children under 14
R	–	Restricted under 17 Requires Accompanying Parent or Adult Guardian
NC-17	–	No One under 17 Admitted
X	TV-MA	Mature Audience Only

To set the Sub ratings

As for **TV-Y7**, **TV-PG**, **TV-14** or **TV-MA**, you can further set the Sub ratings to Block Specific Elements within programs. To set the Sub ratings, follow the step below.

Use ▲▼◄► to select the desired rating, then press **OK** Repeatedly to switch between ☒ and ☐.

Picture		
Sound	☐ All	☒ (FV)Fantasy Violence
Setup	☐ None	
Features	☐ TV-Y	
Language	☑ TV-Y7	
	☐ TV-G	
	☐ TV-PG	
	☐ TV-14	
	☐ TV-MA	

US TV ratings	Sub rating
TV-Y7	(FV)Fantasy Violence
TV-PG	(D)Dialog
TV-14	(L)Language (S)Sex (V)Violence
TV-MA	(L)Language (S)Sex (V)Violence

📝 Note(s)

- Blocked Sub Rating will appear beside the Main Rating category in **US TV ratings lock** Menu.
- You cannot Block a Sub Rating if the Main Rating is set to ☐.
- Changing the Category to ☒ or ☐ automatically changes All its Sub Ratings to the same (☒ or ☐).

Canadian English or Canadian French Ratings

You can select the Rating for Canadian English or Canadian French broadcasting.

3   Use ▲▼ to Select **Canadian English rating** or **Canadian French rating**, then press **OK**.

4   Use ▲▼ to Select the Desired Rating, then press **OK** Repeatedly to Switch between Block and View.

- ☒ indicates that the Rating is Locked (Block).
- ☐ indicates that the Rating is Not Locked (View).

Canadian English rating	Canadian French rating	Description
All		Locked All Ratings
E		Exempt Program
C	–	For All Children
C8+	–	For All Children 8 and Older
G		General Audience
–	8ans+	Unsuitable for Ages under 8
PG	–	Parental Guidance Suggested
–	13ans+	Unsuitable for Ages under 13
14+	–	Unsuitable for Ages under 14
–	16ans+	Unsuitable for Ages under 16
18+	18ans+	Adult Audience Only

≣ Note(s)

- The V-Chip can Block Non Rated Programs as per "CEA-608-E sec. L.3". If the Option to Block **NR**, **None** or **E** Programs are used in **US movie ratings lock**, **US TV ratings lock**, **Canadian English rating** or **Canadian French rating** accordingly "unusual results may occur and the Unit may not Receive Emergency Bulletins or other Types of Programming": / Emergency Bulletins (Such as EAS messages, Weather Warnings and Others) / Locally originated Programming / News / Political / Public Service Announcements / Religious / Sports / Weather.

Change PIN

Although the default PIN code (0000) is supplied with the Unit, you can set your own PIN code.

3   Use ▲▼ to select **Change PIN**, then press **OK**.

4   Press **the NUMBER keys** to enter the New 4-digit PIN code.

- Enter PIN code again in **Confirm PIN.** entry field.

Picture
Sound
Setup
Features
Language

Enter PIN.
- - - -

Confirm PIN.
- - - -

▦ PIN Code   ◯ᴮᴬᶜᴷ Back

≣ Note(s)

- Make sure to enter a PIN code and the confirm PIN code must be exactly the same. If they are different, the space is cleared to reenter the New PIN code.
- When a Power failure occurs the PIN code will be erased and Unit returns to the default PIN code (0000).
- If you forget the PIN code, unplug the AC Power Cord then wait for 10 seconds to plug the AC Power Cord in again.
  The Unit will restore the PIN code to 0000 (factory default). Then repeat the Change PIN procedure to Setup a New PIN code.

PC settings

This function lets you adjust the PC screen position, clock and phase during PC Input.

Use ◄► to adjust **Clock** setting to stabilize the PC screen and **Phase** setting to improve the clarity of the PC screen.

1   Use ▲▼ to select **PC settings**, then press **OK**.

Picture	Auto adjustment	
Sound		
Setup	Horizontal position	0
Features	Vertical position	0
Language	Clock	0
	Phase	0

2   Use ▲▼ to select the item you want to adjust, then press **OK**.

- The horizontal/vertical position, clock and phase of the PC screen are Automatically adjusted.

Auto adjustment	Select if you want to adjust Automatically.	
	◄ Cursor	Cursor ►
Horizontal position	to move PC screen left	to move PC screen right
Vertical position	to move PC screen down	to move PC screen up
Clock	to decrease setting value	to increase setting value
Phase		

≣ Note(s)

- You may not obtain an appropriate screen with **Auto adjustment** for some signals. In this case, please adjust the settings manually.
- Properly adjust the **Clock** setting and then adjust the **Phase** setting.

fun-Link (HDMI CEC)

This function allows you to operate the linked functions between our brand Devices with a fun-Link feature and this Unit connecting through an HDMI cable. You must connect this Unit to our brand fun-Link devices and be sure it's fun-Link (HDMI CEC) setting is also set to On.

1 Use ▲ ▼ to select **fun-Link (HDMI CEC)**, then press **OK**.

Picture	fun-Link control	On
Sound	Auto device off	On
Setup	Auto TV on	On
Features	Device list	
Language		

2 Use ▲ ▼ ◄ ► to select the item you want to adjust, then press **OK**.

Set the fun-Link control **On** or **Off**. The following additional settings will be grayed out when you set them to **Off**.

	Off	Disables All fun-Link.
fun-Link control	On	Selects if you have connected an External Device that is compatible with the fun-Link function.

You can set your connected fun-Link device to Turn Off by interlocking from this Unit's Power.

	Off	Your connected fun-Link device stays On even if the Unit goes into Standby mode.
Auto device off	On	Your connected fun-Link device Turns Off Automatically when the Unit goes into Standby mode.

This Unit will Turn On when the Power On Signal is sent from your connected fun-Link device.

	Off	This Unit stays in Standby mode even if you Turn On your connected fun-Link device.
Auto TV on	On	This Unit Turns On Automatically when you Turn On your connected fun-Link device.

Device list

This function lets you see the product model number or name of Connected Devices.

Picture		
Sound	HDMI1	DVD recorder
Setup	HDMI2	Blu-ray disc player
Features		
Language		

(OK) Input Change   INFO ○ Refresh   BACK ○ Back

Setting your Location to Home

You can set the **Location** of your TV to **Home** or **Retail**. Choosing **Home** gives you full flexibility to change predefined settings for Picture and Sound.

1 Use ▲ ▼ to Select **Location**, then press **OK**.

Picture	Caption settings	
Sound	Child lock	
Setup	PC settings	
Features	fun-Link (HDMI CEC)	
Language	Location	Home
	E-sticker	- -
	Software upgrade	

2 Use ▲ ▼ to select **Home** or **Retail**, then press **OK**.

Retail	The Unit will be set up with predefined settings for retail displays. In this setting, the Power Consumption may possibly exceed the limit requirement of the ENERGY STAR® qualification.
Home	This setting is ENERGY STAR® qualified. The Unit is set to maximize the energy efficiency for Home setting and it can be adjusted through a choice of Picture and Sound quality selections according to your preference.

≡ Note(s)

• You must set **Home** in the Menu. Otherwise, personalized Picture and Sound Settings will Not Be Memorized after the Unit goes into Standby Mode.

E-sticker

When you set **Location** to **Retail** store, E-sticker (Electronic Sticker) is displayed. E-sticker can be Turned Off using procedure below.

1 Use ▲ ▼ to select **E-sticker**, then press **OK**.

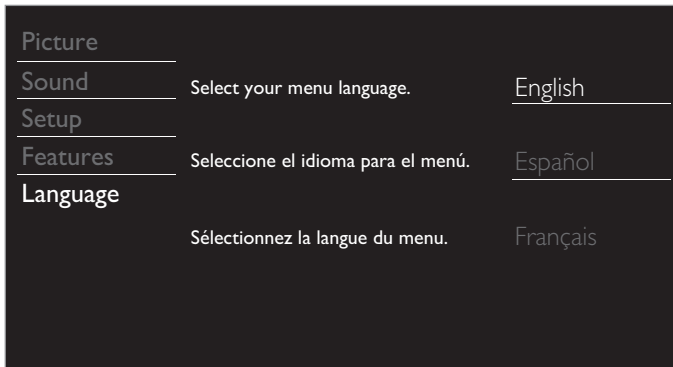**2** Use ▲ ▼ to select **Off**, then press **OK**.

Off	You can Turn Off E-sticker.
Top	E-sticker is displayed on top of the TV screen.
Bottom	E-sticker is displayed on bottom of the TV screen.

≡ Note(s)

• If you set **Location** to **Home**, E-sticker will not be displayed.

Language

1   Press **TV MENU** and use ▲ ▼ to select **Language**, then press **OK**.

Picture		
Sound	Select your menu language.	English
Setup		
Features	Seleccione el idioma para el menú.	Español
Language		
	Sélectionnez la langue du menu.	Français

2   Use ▲ ▼ to select **English**, **Español** or **Français**, then press **OK**.

≡ Note(s)

• If you need the English menu instead of the Spanish or French menu's, press **TV MENU**.
    Use ▲ ▼ to select **Idioma** or **Langue**, then press **OK**.
    Use ▲ ▼ to select **English** then press **OK**.
    Press **TV MENU** to Exit the Main menu.

6 Upgrade your TV Software

Emerson continuously tries to improve its products and we strongly recommend that you Upgrade the TV Software when Upgrades are available.

New Software can be Downloaded from our website at *http://emersonaudiovideo.com/support/download* using the model number of your TV to find information.

Checking your Current Software version

1 Press **TV MENU** and use ▲ ▼ to select **Features**, then press **OK**.

2 Use ▲ ▼ to select **Software upgrade**, then press **OK**.

Picture	Current software info
Sound	Upgrade
Setup	
Features	
Language	
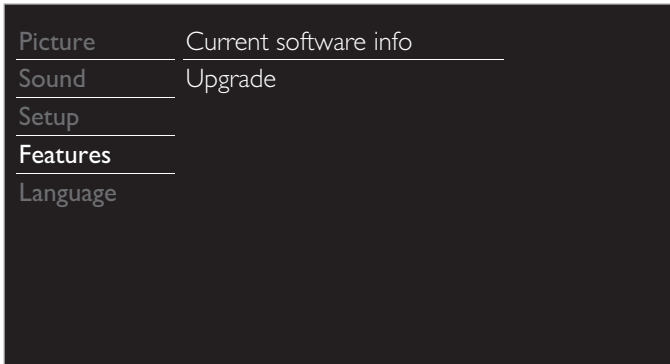
3 Use ▲ ▼ to select **Current software info**, then press **OK**.

• The version and a description of the Current Software is displayed.

Picture		Back
Sound		
Setup	Release Version:	
Features	XXXXXXX_XX_XX_XXXX_XX	
Language		
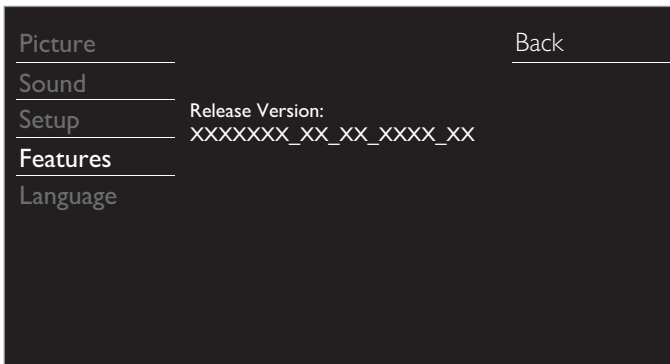
Upgrading the Software

You can Upgrade the Software by using a USB Memory Stick.

Preparing for the Software Upgrade

You require the following equipment :

• A PC with web browsing capability.

• An archive utility that supports the ZIP-format (e.g. WinZip for Windows or Stuffit for Mac OS).

• A Blank empty clean formatted USB Memory Stick.

Note(s)

• Only FAT / DOS-formatted portable memory is supported.

• Use only Software Upgrades that can be found on the Emerson website.

Downloading the Software

Find information and Software related to your TV and Download the Latest Software Upgrade file to your PC.

1 On your PC, open a web browser and go to *http://emersonaudiovideo.com/support/download*

2 Enter the model number in the ''Type the Model Number...'' field.

3 Click the desired Software to be Downloaded.

• Decompress the ZIP-file.

4 Copy the Upgrade file to the Empty root directory on the clean formatted USB Memory Stick.
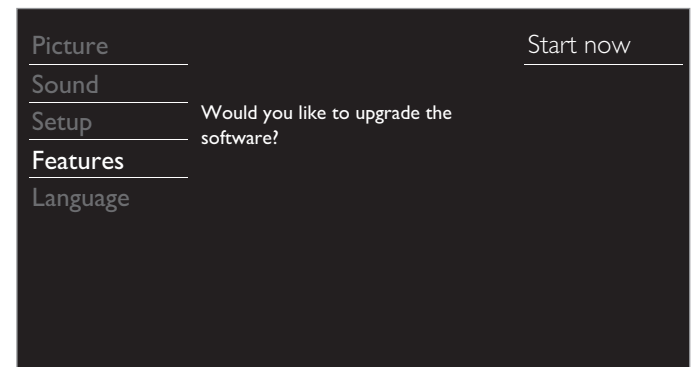
Starting the Software Upgrade

⚠ Warning

• When the Software Upgrade is running, don't press any keys.

• Do Not remove the USB Memory Stick during the Software Upgrade.

• If an Error occurs during the Upgrade, retry the procedure or for further assistance, please contact the Call Center.

1 Connect your USB Memory Stick with the upgrade file to the USB Service Port on the side of your TV.
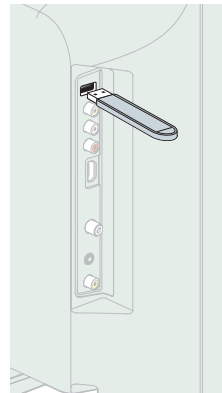
2 Press **TV MENU** and use ▲ ▼ to select **Features**, then press **OK**.

3 Use ▲ ▼ to select **Software upgrade**, then press **OK**.

4 Use ▲ ▼ to select **Upgrade**, then press **OK**.

5 Read the On-screen instructions and confirm that you want to continue with the Installation.

Picture		Start now
Sound		
Setup	Would you like to upgrade the software?	
Features		
Language		

6 When the Software Upgrade is completed, press ⏻ to set the Unit into Standby mode, then remove the USB Memory Stick and then press ⏻ again to Turn the Unit back On.

• The TV starts up with the New Software. For further assistance, please contact the Call Center.

7 DVD

DVD SETTING

Settings are only Effective when the Unit is in DVD mode and any Discs should not be Playing back.

1   In STOP mode, press **DVD SETUP** and use ◀▶ to select a desired setting and an item, then press **OK** to determine the setting.

2   When the setting is completed, press **DVD SETUP** to EXIT.

DVD Language Setting

You can change the desired Language when Playing back the Disc.

1   In STOP mode, press **DVD SETUP** and use ◀▶ to select **LANGUAGE**.

2   Use ▲▼ to select the item you want to adjust, then press **OK**.

3   Adjust the following items.

SETUP MENU

Select the desired On-screen Language.

AUDIO *1, *2

Select the desired Audio Language.

SUBTITLE *1, *2

Select the desired Subtitle Language.

DISC MENU *1

Select the desired Language in DVD Menu.

*1   Language options are Not available with some Discs.
If **OTHER** is selected in the **AUDIO**, **SUBTITLE** or **DISC MENU** menu, input a 4-digit number to enter the Code for the desired language.
Language Code List: ➡ p. 34
Only the Languages supported by the Disc can be selected.

*2   Language setting for Audio and Subtitle are Not available with some Discs.
- Use **MODE** to select Subtitles available on the DVD.
- Use **SAP / AUDIO** to select Audio available on the DVD.
If the DVD's default settings for Audio and Subtitle are the same Language, the Subtitles may not show unless you turn them On.

DVD Audio Setting

Choose the appropriate Audio Settings for your equipment. It only affects the Audio during the Playback on a DVD.

1   In STOP mode, press **DVD SETUP** and use ◀▶ to select **SOUND**.

2   Use ▲▼ to select the desired item, then press **OK**.
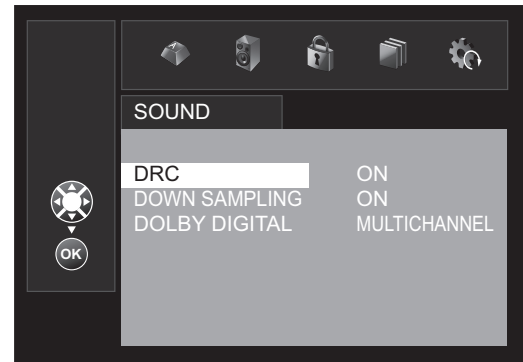
3   Adjust the following items.

DRC (dynamic range control)

This function is available only on the Discs which are recorded in the Dolby Digital format.

ON	Compress the range between soft and loud sounds.
OFF	No effects (original sound).

DOWN SAMPLING

This function is available only on digital outputting of a Disc recorded in 96 kHz.

ON	When outputting in 48 kHz.
OFF	When outputting the original 96 kHz sound.

DOLBY DIGITAL

Set to **MULTICHANNEL** when this Unit is connected to a Dolby Digital decoder.

MULTICHANNEL	Outputs Dolby Digital signals.
PCM	Converts the Dolby Digital into PCM. (2 channel)

Parental Setting

Parental setting prevents your children from viewing inappropriate material. (password protected.) Playback will stop if the ratings exceed the levels you set.

1 In STOP mode, press **DVD SETUP** and use ◄► to select **PARENTAL**.

2 Use **the NUMBER keys** to enter your personal 4-digit password, then press **OK**.

- If you have set the password already, use **the NUMBER keys** to enter the current 4-digit password.
- You cannot use the default password (4737) to Play back a DVD.

3 Use ▲▼ to select the **PARENTAL LEVEL**, then press **OK**.

4 Use ▲▼ to select the desired item, then press **OK**.

PARENTAL LEVEL	
ALL	All Parental Locks are cancelled.
8 [ADULT]	All Ratings (Adult / General / Children) can be Played back.
7 [NC-17] to 2 [G]	Only DVD intended for general use and children can be Played back.
1 [KID SAFE]	Only DVD intended for children can be Played back.

To change the password

5 At step 3, use ▲▼ to select **PASSWORD CHANGE** then press **OK**.

6 Use **the NUMBER keys** to enter the new 4-digit password.

≣ Note(s)

- DVD-video may not respond to Parental Lock settings. Make sure this function works with your DVD-video.
- Record the Password in case you forget it.
- If you forget the Password, press **4**, **7**, **3**, **7**, then enter your New Password. Password will be cleared and Parental Levels will be set to **ALL**. Go to step 3 to reset **PARENTAL LEVEL**.
- A Power failure will Not Erase your Password.

Others

You can change the Others functions.

1 In STOP mode, press **DVD SETUP** and use ◄► to select **OTHERS**.

2 Use ▲▼ to select the desired item, then press **OK**.
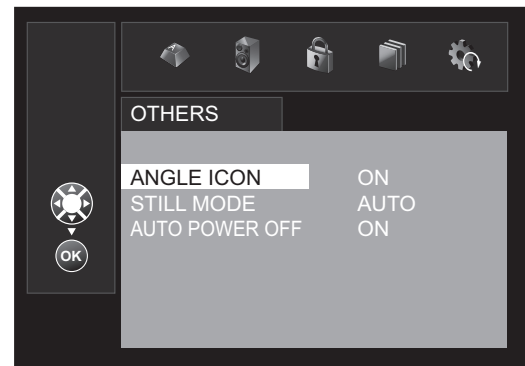
3 Adjust the following items.

ANGLE ICON

Set to **ON** to show the Angle Icon when Multiple Camera Angles are available during DVD Playback.

STILL MODE

Set the Picture quality in the Still mode.
If you select **AUTO**, it automatically selects the Best Resolution setting (**FIELD** or **FRAME**) based on the Data Characteristics in the Pictures.

| FIELD	The picture in the Still mode will be stabilized.
FRAME	The picture in the Still mode will be highly defined.

AUTO POWER OFF

Set to **ON**. If there is no operation for 15 minutes, the Unit goes into Standby Mode.

Reset to the Default Setting

You can Reset All the Settings except for the Parental Setting and On-screen Menu Language.

1 In STOP mode, press **DVD SETUP** and use ◄► to select **INITIALIZE**.

2 Use ▲▼ to select **YES**, then press **OK**.
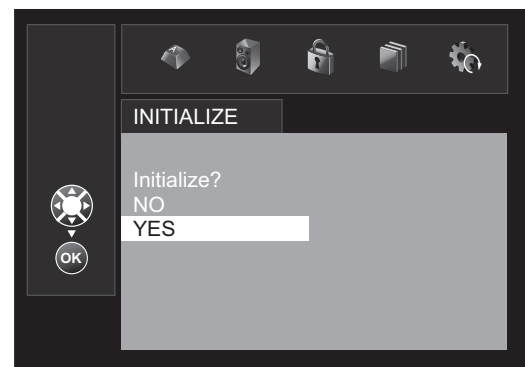
≣ Note(s)

- When you want to Cancel the Initialization, select **NO**, then press **OK**.

Language Code List

Language	Code	Language	Code
A-B		Lithuanian	5866
Abkhazian	4748	Macedonian	5957
Afar	4747	Malagasy	5953
Afrikaans	4752	Malay	5965
Albanian	6563	Malayalam	5958
Amharic	4759	Maltese	5966
Arabic	4764	Maori	5955
Armenian	5471	Marathi	5964
Assamese	4765	Moldavian	5961
Aymara	4771	Mongolian	5960
Azerbaijani	4772	Nauru	6047
Bashkir	4847	Nepali	6051
Basque	5167	Norwegian [NOR]	6061
Bengali;Bangla	4860	**O-R**	
Bhutani	5072	Occitan	6149
Bihari	4854	Oriya	6164
Bislama	4855	Oromo(Afan)	6159
Breton	4864	Panjabi	6247
Bulgarian	4853	Pashto;Pushto	6265
Burmese	5971	Persian	5247
Byelorussian	4851	Polish [POL]	6258
C-E		Portuguese [POR]	6266
Cambodian	5759	Quechua	6367
Catalan	4947	Rhaeto-Romance	6459
Chinese [CHI]	7254	Romanian [RUM]	6461
Corsican	4961	Russian [RUS]	6467
Croatian	5464	**S**	
Czech [CZE]	4965	Samoan	6559
Danish [DAN]	5047	Sangho	6553
Dutch [DUT]	6058	Sanskrit	6547
English [ENG]	5160	Scots Gaelic	5350
Esperanto	5161	Serbian	6564
Estonian	5166	Serbo-Croatian	6554
F-H		Sesotho	6566
Faroese	5261	Setswana	6660
Fiji	5256	Shona	6560
Finnish [FIN]	5255	Sindhi	6550
French [FRE]	5264	Singhalese	6555
Frisian	5271	Siswat	6565
Galician	5358	Slovak	6557
Georgian	5747	Slovenian	6558
German [GER]	5051	Somali	6561
Greek [GRE]	5158	Spanish [SPA]	5165
Greenlandic	5758	Sundanese	6567
Guarani	5360	Swahili	6569
Gujarati	5367	Swedish [SWE]	6568
Hausa	5447	**T**	
Hebrew	5569	Tagalog	6658
Hindi	5455	Tajik	6653
Hungarian [HUN]	5467	Tamil	6647
I-K		Tatar	6666
Icelandic [ICE]	5565	Telugu	6651
Indonesian	5560	Thai	6654
Interlingua	5547	Tibetan	4861
Interlingue	5551	Tigrinya	6655
Inupiak	5557	Tonga	6661
Irish [IRI]	5347	Tsonga	6665
Italian [ITA]	5566	Turkish [TUR]	6664
Japanese [JPN]	5647	Turkmen	6657
Javanese	5669	Twi	6669
Kannada	5760	**U-Z**	
Kashmiri	5765	Ukrainian	6757
Kazakh	5757	Urdu	6764
Kinyarwanda	6469	Uzbek	6772
Kirghiz	5771	Vietnamese	6855
Kirundi	6460	Volapuk	6861
Korean [KOR]	5761	Welsh	4971
Kurdish	5767	Wolof	6961
L-N		Xhosa	7054
Laothian	5861	Yiddish	5655
Latin	5847	Yoruba	7161
Latvian;Lettish	5868	Zulu	7267
Lingala	5860		

Note(s)

• If you choose a language that has a 3-letter abbreviation, the code will be displayed every time you change the Audio or Subtitle Language setting above. If you choose any other language, [---] will be displayed instead. (3-letter abbreviation is written in bracket.)

8 OPERATING DVD

Playable Media

Media Type	Logo	Recorded Signal	Media Size
DVD-VIDEO	DVD VIDEO / DVD VIDEO	digital video (MPEG2)	5 inches (12 cm)
DVD-RW	DVD RW / DVD RW		
DVD-R	DVD R / DVD R		
CD-DA	COMPACT disc DIGITAL AUDIO	digital audio	
CD-RW	COMPACT disc DIGITAL AUDIO (ReWritable) / COMPACT disc (ReWritable)		
CD-R	COMPACT disc DIGITAL AUDIO (Recordable) / COMPACT disc (Recordable)		

Region Codes

This Unit has been designed to Play back DVD's with Region 1. DVD's must be labeled for ALL Regions or for Region 1 in order to Play back in this Unit. You cannot Play back DVD's that are labeled for other regions. Look for the symbols on your DVD. If these region symbols are not on your DVD, you cannot Play back the DVD in this Unit. The number inside the globe refers to region of the world. A DVD labeled for a specific Region can only be Played back on the Unit with the same Region Code.

Color Systems

DVD is recorded for different color systems throughout the World. The most common color system is NTSC (which is used primarily in the United States and Canada).
This Unit uses NTSC, so a DVD you Play back must be recorded in the NTSC system. You cannot Play back a DVD recorded in PAL color systems.

Unplayable Media

NEVER play back the following Discs. Otherwise, a malfunction may result!

- 3 inch (8 cm) disc
- DVD-RAM
- DVD-audio
- CD-i
- Photo CD
- Video CD
- DVD with Region Codes other than 1 or ALL
- DTS-CD
- DVD-ROM for personal computers
- CD-ROM for personal computers
- The Discs with labels, scratches, stains, blemishes, etc.
- HD DVD
- Blu-ray Disc
- DVD or CD contains MP3 / JPEG files
- KODAK Picture CD

On the following Disc, the sound recorded on the disc's high density layer WILL NOT be played back and displays a message.

- Super Audio CD

Any other Discs without compatibility indications

📑 Note(s)

- Unfinalized Discs cannot be Played back.
- For DVD-RW/-R, Discs recorded in the VR (Video Recording) format cannot be Played back. Only finalized Video format Disc's can be Played back.
- Some Discs cannot be Played back because of incompatible recording conditions, characteristics of the recorder or special properties of Discs.
- Only the Sound recorded on the normal CD disc's layer can be played back. The Sound recorded on the Super Audio CD disc's high density layer cannot be played back and displays a message.
- Do Not use a single CD adaptor which makes 3 inch (8 cm) to 5 inch (12 cm) Disc.
- You can Play back Discs with the marks listed in **Playable Media**. If you use non-standardized Discs, this Unit may not play them back or the Sound and Video quality will be compromised.
- If the recorded portion of the Disc is too small (less than 2.17 inches (55 mm) across), it may not Play back properly.

These Operations are accessible by Remote Control.
Some may also be accessible by the Main Unit's Control Panel.

Playback

Before you begin:

Turn On the amplifier and any other equipment which is connected to this Unit. Make sure the external audio receiver (not included) are set to the correct channel.

1 Press ⏻ to turn On the Unit.

**2** Insert a Disc with label facing toward the TV screen.

Label (toward the TV screen)
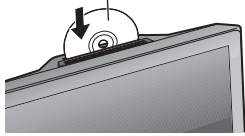
> ⚠ *CAUTION*
> • *Do not put coins or foreign objects into the disc loading slot.*

• In case the DVD was recorded on both sides, make sure the Label side you want to play back is facing toward the TV screen.

3 The Unit switches to the DVD mode when the Unit was in TV mode and detects the type of Disc.

• Press ▶ (PLAY) if the Unit does not go to the DVD mode.

4 The Unit starts Playback.

• If Playback does not start automatically, press ▶ (PLAY) again.

5 Press ■ to Stop Playback temporarily.

• If Playback remains stopped for 15 minutes, the Unit will go into Standby mode automatically when **AUTO POWER OFF** feature is set to **ON**.

6 Press ⏏ to eject the Disc.

📋 Note(s)

• ⊘ may appear at the top-right on the TV screen when the operation is prohibited by the Disc or this Unit.
• Some DVD may start Playback from Title 2 or 3 due to specific programs.
• During the Playback of a 2-layered Disc, pictures may stop for a moment. This happens while the 1st layer is being switched to the 2nd layer. This is not a malfunction.
• When you cannot remove the Disc, you may try either of the following operations.
  – Press and Hold ⏏ key on the Unit for more than 5 seconds.
  – Unplug the AC power cord for 10 seconds and plug it in again, then press ⏏ key on the Unit.
It will take about 10 seconds to Eject the Disc while the Unit may not respond to any key commands.

Disc Menu

DVD

Some Discs contain Disc Menus which describe the contents of the Disc or allow you to customize Disc Playback or Title Menu which lists the Titles available on the DVD.

To display the DVD Menu, press **DISC MENU** and use ▲ ▼ ◀ ▶ to select an item, then press **OK** (or ▶ (PLAY)).

To display the Top Menu, press **TITLE** and use ▲ ▼ ◀ ▶ to select an item, then press **OK** (or ▶ (PLAY)).

📋 Note(s)

• Menu operations may vary depending on the Disc. Refer to the manual accompanying the Disc for more details.

Resume Playback

Press ■ during Playback. Resume Message will appear on the TV screen. Press ▶ (PLAY). Playback will resume from the Point at which Playback was Stopped.

📋 Note(s)

• To Cancel Resume, press ■ one more time in the Stop mode. On some Discs, ■ will not work while the Resume Message appears. Please wait until the Message disappears.
• The Resume information will be kept even when the Unit goes into Standby Mode. However, Ejecting the Disc will Cancel the Resume feature. Playback will then start at the beginning the next time you insert the Disc.

# Paused and Step-by-Step Playback

Press ❚❚ during Playback.

• Playback will be Paused and Sound will be Muted.

DVD

Each time you press ❚❚ in the Pause mode, the Disc goes Forward one frame at a time.

To continue Playback, press ▶ (PLAY).

📋 Note(s)

• Set **STILL MODE** to **FIELD** in the **OTHERS** menu if pictures in the Pause mode are blurred. ➡ **p. 33**

Fast Forward / Fast Reverse

Press ▶▶ or ◀◀ repeatedly during Playback to select the desired Forward or Reverse speed.

To continue Playback, press ▶ (PLAY).

📋 Note(s)

• Set **STILL MODE** to **FIELD** in the **OTHERS** menu if pictures in the Fast Playback mode are blurred. ➡ **p. 33**
• Fast Forward / Fast Reverse speed varies with Disc. Approximate speed is 1(2x), 2(8x), 3(20x), 4(50x) and 5(100x) on DVD and 1(2x), 2(8x) and 3(30x) on Audio CD.
• For DVD, sound will be Muted during this function.
• For Audio CD, Sound will be intermittent during the search.

Slow Forward / Slow Reverse

DVD

Press ▶▶ or ◀◀ repeatedly during the Pause mode to select the desired Forward or Reverse speed.

To continue Playback, press ▶ (PLAY).

📋 Note(s)

• Set **STILL MODE** to **FIELD** in the **OTHERS** menu if pictures in the Slow Playback mode are blurred. ➡ **p. 33**
• Slow Forward / Slow Reverse speed varies with Disc. Approximate speed is 1(1/16x), 2(1/8x) and 3(1/2x).
• The Sound will be Muted during this function.

Zoom

DVD

The Zoom function allows you to enlarge the Video image and to Pan through the Enlarged image.

1 During Playback, press **MODE** repeatedly until [🔳] appears.

2 Press **OK** repeatedly to change the Zoom factor, **2x** or **4x**.

3 Once a desired Zoom factor is set, use ▲ ▼ ◄ ► to slide the Zoomed Picture across the TV screen.

4 To EXIT Zoom, repeat steps 1 and 2 above and press **OK** repeatedly until **OFF** appears (**2x** ➠ **4x** ➠ **OFF**).

▤ Note(s)

- The Black box with an inner Gray box that is displayed during Zoomed Playback, is a Position Guide which indicates the position of the Zoomed Image within the overall Picture image.
  The Position Guide stays on the TV Screen until you press **OK**.
  Press **OK** one more time to recall the Position Guide after it disappeared.
- Zoom function does not work while the Disc Menu is displayed.
- 4x Zoom is not available on some Discs.
- Zoom function is also available during Pause mode.

Search Functions

Chapter / Title / Track Search

You can select Chapters, Titles or Tracks on the Disc.

1 During Playback, press **MODE** repeatedly until [CH] / [TR] appears.

- If you want to perform the Title Search, use ▲ ▼ repeatedly until [TT] appears.

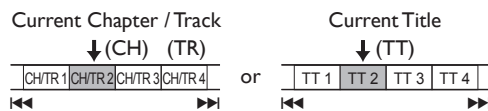**2** Press **the NUMBER key(s)** to select your desired Chapter, Title or Track within 60 seconds.

To Play back a Single-digit Chapter, Title or Track press a single key and when there are more than 10 Chapters, Titles or Tracks press two keys, press **OK** after entering the Chapter, Title or Track number(s).

3 Playback will start automatically from the Chapter, Title or Track you selected.

▤ Note(s)

- Chapter, Title or Track Search can only be performed during Playback or when the Unit has kept the Resume information. It cannot be performed in the Stop mode.
- The total number of Chapters / Titles / Tracks in your Disc; with less than 10 (Single digit) Chapters / Titles / Tracks, press the Chapter / Title / Track number directly. To play a Double-digit Chapter / Title / Track, press the Chapter / Title / Track numbers. For Double-digit numbers, you need to input both digits.
- Track search is Not available for Programmed or Random Playback.

Using |◄◄ / ►►|

1 During Playback, press |◄◄ / ►►| repeatedly until a desired Chapter, Title or Track will be selected.

```
    Current Chapter / Track        Current Title
          ↓(CH)   (TR)                ↓ (TT)
   ┌──────┬──────┬──────┬──────┐    ┌──────┬──────┬──────┬──────┐
   │CH/TR 1│CH/TR 2│CH/TR 3│CH/TR 4│ or │ TT 1 │ TT 2 │ TT 3 │ TT 4 │
   └──────┴──────┴──────┴──────┘    └──────┴──────┴──────┴──────┘
   |◄◄              ►►|             |◄◄              ►►|
```

2 Playback will start automatically from the Chapter, Title or Track you selected.

▤ Note(s)

- |◄◄ / ►►| are Not available when Playback is Stopped.

Time Search

You can select the desired time where the Disc is Played back from.

1 During Playback, press **MODE** repeatedly until [CH] / [TR] appears.

2 Use ▲ ▼ repeatedly until [🕐] appears.

3 Press **the NUMBER key(s)** within 60 seconds to select your desired search time.

4 Playback will start automatically from the Time you selected.

▤ Note(s)

- When there is no need to enter a number, **0** appears automatically. For example, **0: 0_:** _ _ appears in the Time Search Menu if the total time of the Title or Track is less than 10 minutes.
- Press **CLEAR** to Erase the incorrect input at step 3.
- Time Search can only be performed during Playback or when the Unit has kept the Resume information. It cannot be performed in the Stop mode.

Direct Search

Press **the NUMBER key(s)** to select your desired Chapter, Title or Track.

▤ Note(s)

- To select a Single-digit Chapter, Title or Track number, press the number directly.
- To select Double-digit Chapter, Title or Track number:
  - If the Disc contains more than 9 and less than 100 Chapters, Titles or Tracks, press **+10** first, then enter the Double-digit Chapter, Title or Track number. (e.g., for Track 26, press **+10**, **2** and **6**)

Repeat Playback

Repeat function is available only during Playback.

1 During Playback, press **MODE** repeatedly until [↻] appears.

2 Press ▲ ▼ to change the Repeat mode.

DVD

OFF	Repeat Off
CHAPTER	Current Chapter Repeat
TITLE	Current Title Repeat

CD

OFF	Repeat Off
TRACK	Current Track Repeat
ALL	Entire Title Repeat

3 Press **BACK** to EXIT.

Repeat A-B Playback

You can Repeat Playback between A and B on a Disc.

1 During Playback, press **MODE** repeatedly until ▣ appears.

2 Press **OK** at your desired Starting point (A).

3 Press **OK** at your desired Ending point (B).

- Point B should be in the same Title or Track as point A.
- Within a few seconds, the selection A-B will begin to Play back repeatedly.

4 To Cancel Repeat A-B Playback, press **MODE** repeatedly until ▣ appears.
Press **OK** so **OFF** appears.

Note(s)

- Repeat setting (except **ALL**) will be cleared when moving to another Title or Chapter, Track.
- During Programmed Playback, Repeat setting will be effective for the Tracks in the program.
- Repeat Playback or Repeat A-B Playback may Not be available with some Discs.
- Repeat A-B Playback does not function during another Repeat mode.
- To Cancel Point A, press **CLEAR** at step 2 in **Repeat A-B Playback**.
- Stopping Playback will Cancel Repeat A-B Playback.

Random Playback

CD

This function Shuffles the Playing order of Tracks instead of sequential Playback.

1 In STOP mode, press **MODE** repeatedly until the **RANDOM** Menu appears.

2 Press ▶ (PLAY) to start Random Playback.

Note(s)

- To Repeat the current Track in the Random mode, follow the steps 1 and 2 in **Repeat Playback** and select ▣ TRACK. ➡ **p. 37**
- To Repeat the entire random selections, follow the steps 1 and 2 in **Repeat Playback** and select ▣ ALL. ➡ **p. 37**

Programmed Playback

CD

You may determine the Order in which Tracks will play back.

1 In STOP mode, press **MODE** repeatedly until the **PROGRAM** Menu appears.

2 Use ▲ ▼ to Select a desired Track, then press **OK** to Store it.

- Additional Tracks may be on other screens. Use ▲ ▼ to go on to the Next / Previous pages.
- Repeat this Step until you have selected all the Tracks you wish to play back in the program.
- Up to 99 Tracks can be ordered.
- If 8 or more Tracks were in a Program, use ◀◀ / ▶▶ to see All the Tracks.

3 Press ▶ (PLAY) to start Programmed Playback.

Note(s)

- Press **CLEAR** to Erase the last Track in the program if you make an error.
- To Erase all Programmed Tracks at once, select **ALL CLEAR** and press **OK** at step 2.
- While a Program is being Played back, ■ works as follows:
  - Pressing ■ once: The Track will be in the Resume Standby mode. Next time you press ▶ (PLAY), the Playback will Resume from the Point where it is Stopped in the Programmed Playback.
  - Pressing ■ twice: Resume mode will be Cancelled. Next time you press ▶ (PLAY), Playback will Restart from the First Track in the Original order. However, your Programmed Playback can be Restarted when you follow the above steps. (Your Programs are still Stored until either the Disc is Ejected or the Unit goes into Standby mode.)
  - On some Discs, ■ will not work while the Resume message appears. Please wait until the Message disappears.
- To Repeat the current track in the program, follow the steps 1 and 2 in **Repeat Playback** and select **TRACK**. ➡ **p. 37**
- To Repeat the Entire Program, follow the steps 1 and 2 in **Repeat Playback** and select **ALL**. ➡ **p. 37**
- Ejecting the Disc or the Unit goes into Standby mode will Erase the program.
- You cannot use the Number keys to select another Track during Programmed Playback. Use ◀◀ / ▶▶ to select other Tracks in the program.
- You cannot combine Random Playback with Programmed Playback.
- You cannot alter a programmed order during Playback.
- You can start Programmed Playback only while in **PROGRAM** menu.

On-screen Display

You can check the information about the current Disc by pressing **INFO** on the Remote Control.

DVD

Remaining Time of the Current Chapter

appears only when multi-angle is available on the DVD

Current Playback Status

`1`

`CH 11/16 0:00:00 - 0:03:30 ▶`

Elapsed Time of the Current Chapter

CH (Chapter):
Current Chapter Number / Total Chapters

`2`

`TT 1/3 0:00:00 - 1:23:45 ▶`

Remaining Time of the Current Title

Elapsed Time of the Current Title

TT (Title):
Current Title Number / Total Titles

`3`

Layer Number, appears only when playing a 2-layered disc
L0: Layer 0 is playing
L1: Layer 1 is playing

Current Repeat Setting appears only when the Repeat Setting is active
⟲C: Chapter Repeat
⟲T: Title Repeat
A⟲B: A-B Repeat

`4`

Bit Rate Indication for the amount of Audio and Video data currently being read

CD

Elapsed Time of the Current Track

Remaining Time of the Current Track

Current Playback Status

`1`

`TR 4/12 0:03:21 - 0:02:15 ⟲T ▶`

TR (Track):
Current Track Number / Total

ALL:
Current Track Number / Total

`2`

`ALL 4/12 0:13:45 - 0:45:40 ⟲T ▶`

Current Repeat Setting appears only when the Repeat Setting is active
⟲T: Track Repeat
⟲A: All Tracks Repeat
A⟲B: A-B Repeat

Remaining Time of the entire disc

Elapsed Time of the entire disc

`3`

Note(s)

• When you are Playing back an Audio CD in Program or Random Mode, `TR` **PROGRAM** (or `TR` **RANDOM**) will be displayed instead of `2`.
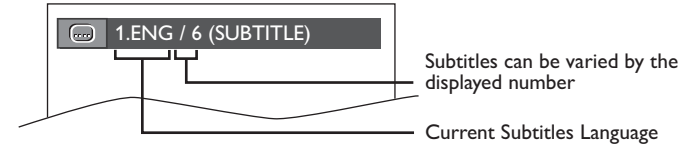
Special Settings

Subtitle Language

DVD

This Unit allows you to select a Subtitle Language (if available) during DVD Playback.

1 During Playback, press **MODE** repeatedly until 🔳 appears.

2 Use ▲ ▼ repeatedly until your desired Language appears.

`1.ENG / 6 (SUBTITLE)`

Subtitles can be varied by the displayed number

Current Subtitles Language

3 Each time you press ▲ ▼, the Subtitle Language changes as follows.

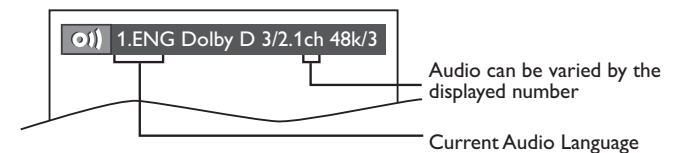| OFF	No Subtitles
ENG	English Audio
SPA	Spanish Audio
FRE	French Audio

4 Press **BACK** to EXIT.

Note(s)

• To Cancel the Subtitle, select **OFF** at step 2.
• If your Language is not shown after pressing ▲ ▼ several times, the Disc may not have that Language. However, some Discs allow you to change Subtitle Languages setting in the Disc Menu. (Operation varies depending on the Disc, so refer to the manual accompanying the Disc.)
• When **NOT AVAILABLE** appears on the TV screen, it means No Subtitle is recorded on the scene.
• If you choose a language that has 3-letter-language code, the code will be displayed every time you change the Subtitle Language setting. If you choose any other languages, --- will be displayed instead. ➡ **p. 34**
• Ejecting the Disc will Cancel your Subtitle setting.

Audio Language

DVD

This Unit allows you to select an Audio Language (if multiple Languages are available) during DVD Playback.

1 During Playback, press **SAP / AUDIO** repeatedly until the desired Language appears.

`1.ENG Dolby D 3/2.1ch 48k/3`

Audio can be varied by the displayed number

Current Audio Language

2 Each time you press **SAP / AUDIO**, the Audio Language changes as follows.

ENG	English Audio
SPA	Spanish Audio
FRE	French Audio

Note(s)

• Some Discs will only allow you to change the Audio setting from the Disc Menu. Refer to the manual accompanying the Discs for details.
• If your Language is not shown after pressing **SAP / AUDIO** several times, the Disc may not have that Language. However, some Discs allow you to change multiple Audio Languages setting in the Disc Menu. (Operation varies depending on the Disc, so refer to the manual accompanying the Disc.)
• When **NOT AVAILABLE** appears on the TV screen, it means Audio Language is Not available.

Camera Angles
DVD

Some DVD may contain scenes which have been shot simultaneously from various Angles. You can change the Camera Angle if 📹 appears on the screen. If **ANGLE ICON** is set to **OFF** in **OTHERS** menu, 📹 will not appear. ➡ **p. 33**

1 During Playback, press **MODE** repeatedly until 📹 appears.

2 Use ▲ ▼ repeatedly until your desired Camera Angle appears.

📹 1 / 8 (ANGLE)

Angles can be varied on the displayed number
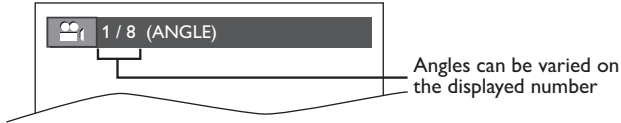
3 Press **BACK** to EXIT.

Black Level Setting
DVD

Adjust the Black Level to make the dark areas of the TV picture brighter.

1 During Playback, press **MODE** repeatedly until ◼ appears.

2 Press ▲ ▼ to adjust the Black Level.

ON	Makes the Dark Areas brighter.
OFF	Shows the Original Picture as recorded.

3 Press **BACK** to EXIT.

Note(s)

• The setting will be kept even if the Unit goes into Standby Mode.

Stereo Sound Mode
CD

This Unit allows you to select a Sound Mode during CD Playback.

1 During Playback, press **SAP / AUDIO** repeatedly until the desired Sound Mode appears.

**2** Each time you press **SAP / AUDIO**, the Sound Mode changes as follows.

STEREO	Stereo Sound with Left and Right Channels.
L-ch	Left Channel Sound Only.
R-ch	Right Channel Sound Only.

Note(s)

• Virtual Surround cannot be changed when the Sound Mode is set to either **L-ch** or **R-ch**.

Virtual Surround

You can enjoy Virtual Surround on your 2 channel Stereo System.

1 During Playback, press **MODE** repeatedly until 🔊 appears.

2 Press ▲ ▼ to select the Sound Level.

1	Natural Effect.
2	Emphasized Effect.
OFF	No Effects (original sound).

3 Press **BACK** to EXIT.

Note(s)

• The Setting will be kept even if the Unit is Turned Off.
• For Audio CD, Virtual Surround will not be effective if the Sound Mode is set to something other than **STEREO**, Stereo Sound Mode.
  Stereo Sound Mode ➡ **p. 40**
• Turn down the level or select **OFF** if the Sound is distorted.

Marker Setup

This feature allows you to assign a specific point on a Disc to be called back later.

To set a Marker

1 During Playback, press **MODE** repeatedly until CH / TR appears.

2 Use ▲ ▼ repeatedly until Marker Search Menu appears.

3 Use ◀ ▶ to select an available Marker within 60 seconds.

4 When the Playback reaches the point at which you want to set a Marker, press **OK**.
  • Marker is now set.

5 Press **BACK** to EXIT.

To return to the Marker later

1 Repeat steps 1-2 in **To set a Marker**. Use ◀ ▶ to select the desired Marker.

2 Press **OK** at the desired Marker to Restart Playback from the specific point which you set.

Note(s)

• Marker Search Menu will disappear in about 60 seconds when there is no Input.
• You can Mark up to 10 points.
• To Clear a Marker, select the Marker to be Cleared, and then press **CLEAR**.
• Ejecting the Disc or turning off the Power will Erase all Markers.
• Selecting AC at step 3 in the section (**To set a Marker**) will also Erase all Markers.

9 Useful tips

FAQ

Question	Answer
My Remote Control does not work. What should I do?	• Check the Antenna or Cable Connection to the Main Unit. • Check the Batteries on the Remote Control. • Re-insert the Batteries with their Polarities (+/–) as indicated. • Check if there is an obstacle between the infrared sensor window and the Remote Control. • Test the IR Signal Output use **IR Signal Check**. ➡ **p. 44** If okay, then possible Infrared Sensor trouble. • Aim the Remote Control directly at the infrared sensor window on the front of the Unit. • Reduce the distance to the Unit. • When there is an infrared-equipped device such as PC near this Unit, it may interrupt the Remote Control signal on this Unit. Move the infrared-equipped device away from this Unit, change the angle of the Device's infrared sensor or Turn Off the infrared communication function.
How come the Initial Setup appears every time I Turn On this Unit?	• Connect the RF Coaxial Cable directly to this Unit and run the Initial Setup. • Make sure to complete the Initial Setup before the Unit goes into Standby mode.
Why can I not watch some RF signal TV Programs?	• Autoprogram must be completed when you Set Up the Unit for the First time or Move it to a location where previously unavailable channels are broadcast. • Make sure **Autoprogram** has been completed. ➡ **p. 23** • The selected channel may not be broadcasting. • When **Autoprogram** is interrupted and not completed, some channels will not be received. Make sure to complete the Autoprogram. ➡ **p. 23** • The selected channel cannot be viewed by the **Child and Ratings Lock** setting. ➡ **p. 26** • The Unit requires some kind of Antenna Input. An indoor Antenna (Digital or VHF / UHF), an External Antenna (Digital or VHF / UHF) or an RF Coaxial Cable from your wall Cable / Satellite Set-top Box needs to be plugged into the Unit.
How come there is no image from the Connected External Devices?	• Check if the correct Input mode is selected by pressing **SOURCE** or using **CH + / –**. Refer to **Watching Channels from an External Device**. ➡ **p. 18** • Check the Antenna, Cable or other Input Connection to the Unit.
When I enter a channel number, why does it change Automatically?	• Many Digital channels have alternate channel numbers. The Unit changes the numbers Automatically to the ones signifying the Broadcasting Station's channel number. These basic numbers used for the previous Analog Broadcasts. (e.g., Input Digital ch# 30 Automatically changes to Digital ch# 8.1)
Why are captions not displayed Entirely? Or why are captions delayed behind the dialog?	• Closed Captions that are delayed a few seconds behind the actual dialog are common for Live broadcasts. Most captioning production companies can display a dialog to maximum of 220 words per minute. If a dialog exceeds that rate, selective editing is used to insure that the Closed Captions remain up-to date with the current TV screen dialog.
How can I set the clock?	• There is No clock function on this Unit.
My PIN code no longer works, how can I change the Child Lock setting?	• If a Power failure occurs for longer than 10 seconds the child lock setting is retained, but the PIN code is reset to the default code 0000. Refer to **Child and Ratings Lock**. ➡ **p. 26**
My Disc cannot be played back. Is there any way I can play my Disc?	• Clean the Disc. • Ensure the Disc is correctly inserted. Refer to **Playback** ➡ **p. 36**. • Check if the Disc is defective by trying another Disc. • Cancel the Parental lock or change the control level. • Insert a correct Disc that plays back on this Unit. • Handle a Disc with special care so that it does not have fingerprints, scratches or dusts on its surface.

Troubleshooting

If the Unit does not perform properly when operated as instructed in this Owner's Manual,
check the following Troubleshooting Tips and All Connections Once before calling for Service.

Power

No Power
- Make sure the AC Power Cord is plugged in.
- Make sure that the AC outlet supplies the proper voltage, plug another electrical appliance into the AC outlet to ensure that the AC outlet operates normally.
- If a Power Failure occurs, Unplug the AC Power Cord for 1 minute to allow the Unit to Reset Itself.

Remote

Control keys do not work.
- Do NOT press more than one key at the same time.
- Ensure that no keys on the Remote Control are depressed and move freely.

Universal Remote Control does not work properly.
- Refer to the user manual of the Universal Remote Control for the Emerson code.

Picture

Power is On but No Screen Image.
- Check whether the Connection for the Antenna, Cable or Satellite Set-top Box is Connected Correctly.
- Check whether All the Cables to the Unit are connected to the correct Output Jack on your separate Device like Blu-ray Disc / DVD Recorder.
- Make sure that the selected Input mode is connected to the working Input jack.
- Check if your computer is NOT in Sleep Mode when the Input Mode on this Unit is in PC mode. Tap any Key on the Computer Keyboard to Wake it up.

No Color
- View other TV channels. The problem might be limited to the broadcasting station.
- Adjust **Color** in **Picture** settings. ➡ **p. 21**

Picture Poor
- Adjust **Contrast** and **Brightness** in **Picture** settings. ➡ **p. 21**
- For the Best Picture Quality, watch ''High Definition'' wide screen Programs. If the HD content is Not available, watch ''Standard Definition'' Programs instead.

You see Pixelation on the Screen.
- When the capabilities of the Unit exceed the capabilities of the Digital Broadcasting, the signal will be increased to match the capabilities of the Display on the Unit. This may cause Pixelation, Noise or Trash.

Unusual picture appears and the TV does Not Operate.
- Press the power key.

Sound

No Sound or Distorted Audio Sound is heard when using the HDMI-DVI connections.
- If the HDMI Cable is plugged into an HDMI-DVI adaptor Cable connect the Adaptor Analog Audio L/R jacks into the Audio L/R IN jacks.
  Refer to **For PC Input signal** ➡ **p. 19**

Incorrect Audio Sound is heard when using the HDMI-DVI connections.
- Make sure that the Analog Audio signals from the HDMI-DVI Device are connected to the Analog Audio (L/R) Input jacks.
  Refer to **For PC Input signal** ➡ **p. 19**
- When using Composite Analog Video, make sure that the Analog Audio (L/R) connectors are mounted into the Audio (L/R) Input jacks.

Sound Intermittent or No Sound.
- Check if the Audio Cable is connected into the Unit correctly.

You Switch to a Different Input and the Volume Changes.
- This Unit will Memorize the Volume Level from the last time you adjusted it.
- If the Volume of the Sound from another Device is Higher or Lower, then the Loudness will Change.
- Make sure **Auto volume leveling** is set to **On**. ➡ **p. 22**

Picture & Sound

No Picture or Sound
- Check if the Power is On.
- Check whether All the cables to the Unit are connected to the correct Output jack of your device like Blu-ray / DVD Recorder.
- View other TV channels. The problem might be limited to the Broadcasting Station or Weak Signal Strength, if DTV channel check signal strength. Refer to **Antenna confirmation** ➡ **p. 24**.
- Unplug the AC Power Cord and wait for about 1 minute, then Plug the AC Power Cord and turn On the Unit again.
- Check whether the Connection of the Antenna or Cable / Satellite Set-top Box is connected correctly.
- Make sure that the selected Input mode is connected to the working Input jack.
- Check if your computer is NOT in sleep mode when the Input mode of this Unit is in PC mode. Tap any key on the keyboard to wake up your computer.
- Make sure that the sound is not muted. Press ⓧ so that the volume bar and current volume level will appear on the TV screen.
- Make sure that the volume is NOT set to **0** or 🔇X. If so, use **VOL + / –** to adjust to the desired volume.

Adjusted Picture or Sound settings are not the same (memorized) every time the Unit is turned On.
- You must set **Home** in **Location**. ➡ **p. 29** (Otherwise, the settings you adjusted will not be memorized after the Unit goes into Standby Mode.)

You see a Distorted Picture or Hear an Unusual Sound. (Analog TV - NTSC signal)
- You may be getting interference from electrical appliances, automobiles, motorcycles or fluorescent lights.
- Try moving the Unit to another Location to see if this is the Cause of the Problem.

Ghosts, lines or streaks in picture. (Analog TV- NTSC signal)
- Electrical interference from nearby appliances may affect picture quality.
- View other TV channels. The problem might be limited to the Broadcasting Station or Weak Signal Strength, if DTV channel check signal strength. Refer to **Antenna confirmation** ➡ **p. 24**.

Picture Poor, Sound Intermittent or No Sound
- View other TV channels. The problem might be limited to the Broadcasting Station or Weak Signal Strength, if DTV channel check signal strength. Refer to **Antenna confirmation** ➡ **p. 24**.

Screen

You Switch to a different Input and the Screen Size changes.
- This Unit will Memorize the Viewing Mode from the last time you used those Particular Input Modes.

The Display image does not cover the Entire Screen.
- If you are using the Unit as a PC Monitor, make sure that **Horizontal position** and **Vertical position** in **PC** settings are set correctly.
- If you are watching TV or using the Composite Video or HDMI with 480i Input, press **PICTURE SIZE** ↔ Repeatedly to Switch to various Screen Modes.

Different color marks on the TV screen
- View other TV channels. The problem might be limited to the broadcasting station, missing data or pixelation due to weak signal strength.

Closed Captions

Closed Captions are displayed as a white box. No Closed Captions are displayed in the Closed Captions-Supported Program.
- Interference from buildings or weather conditions may cause captioning to be incomplete if watching Analog TV signals.
- Broadcasting Station may shorten the program to insert advertisements.
- The Closed Captions Decoder cannot read the information of a shortened program.

Black Box is displayed on the TV Screen.
- The Text mode is selected. For Closed Captions, select **CC-1**, **CC-2**, **CC-3** or **CC-4**.

DVD

Completely distorted picture or black/white picture with DVD.

• Make sure the Disc is compatible with the Unit.

Picture freezes momentarily during Playback.

• Check the Disc for fingerprints / scratches and clean with a soft cloth wiping from center to edge.

Disc cannot be played.

• Clean the Disc.
• Ensure the Disc is correctly inserted with Printed side toward the TV screen.
• Check if the Disc is defective by trying another Disc.
• Cancel the Parental lock or change the control level.
  Refer to **Parental Setting** ➡ **p. 33**
• Insert a correct Disc that plays on this Unit.
• Handle a Disc with special care so that it does not have fingerprints, scratches or dust on its surface.

Keys Do Not work or the Unit stops responding.

• To completely reset the Unit, unplug the AC power cord from the power outlet for 1 minute.

The Unit does not respond to some operating commands during Playback.

• Operations may not be permitted by the Disc. Refer to the instructions for the Disc.

Angle does not switch.

• The Angle cannot be switched for DVD's which do not contain Multiple Angles. In some cases Multiple Angles are only recorded for specific scenes.

Playback does not start when the Title is selected.

• Check the **PARENTAL** setting. Refer to ➡ **p. 33**

The password for rating level has been forgotten.

• Enter the default code "4737", then your forgotten password will be cleared.
  Refer to **Parental Setting** ➡ **p. 33**

≣ Note(s)

• The LCD screen is manufactured to provide many years of useful life. Occasionally a few non active pixels may appear as a fixed point of blue, green or red.
  This is Not to be considered a Defect in the LCD screen.
• Some Functions are Not available in Specific Modes, but this is Not a Malfunction. Read the Description in this Owner's Manual for more Details on Correct Operations of this Unit.
• Some functions are prohibited on some Discs.

---

10 Information

Glossary

Analog TV (NTSC)

Acronym that stands for National Television Systems Committee and the name of Analog broadcasting standards.
Off the air Analog TV signals are no longer being sent by major broadcasting stations in the USA.

Aspect ratio

The width of a TV screen relative to its height. Conventional TVs are 4:3 (in other words, the TV screen is almost square); widescreen models are 16:9 (the TV screen is almost twice as wide as its height).

CEC (Consumer Electronics Control)

This allows you to operate the linked functions between our brand devices with CEC feature and this Unit. We Do Not guarantee 100% interoperability with other brands of CEC compliant devices.

Dolby Digital

The system developed by Dolby Laboratories to compress Digital sound. It offers Stereo Sound (2ch) or multi-channel Audio.

DTV (ATSC)

Abbreviation that stands for Advanced Television Systems Committee and the name of the Digital broadcasting standards.

E-sticker

E-sticker is showing set features, technical information, etc on this TV set that is displayed on the TV screen mainly used by TV retailers. Previously the information was on a printed sticker that was put on the display.

HDMI (High-Definition Multimedia Interface)

Interface that supports All uncompressed, Digital Audio / Video formats including Set-top Box, Blu-ray / DVD Recorder or Digital television, over a single cable.

HDTV (High Definition TV)

Ultimate Digital format that produces high resolution and high picture quality.

PIN code

A stored 4-digit number that allows access to Parental control features.

Region Code

Regions associate Discs and players with particular areas of the World. This Unit will only play back Discs that have compatible Region Codes. You can find the Region Code of your Unit by looking on the rear panel. Some Discs are compatible with more than one Region (or All Regions).

SAP (Secondary Audio Program)

Second-Audio channel delivered separately from the Main-Audio channel. This Audio channel is used as an alternate in bilingual broadcasting.

SDTV (Standard Definition TV)

Standard Digital format that is similar to the Analog TV picture quality.

Maintenance

Cabinet Cleaning

- Wipe the front panel and other exterior surfaces of the Unit with a soft cloth.
- Never use a solvent or alcohol. Do Not spray insecticide liquid near the Unit. Such chemicals may cause damage and discoloration to the exposed surfaces.

Panel Cleaning

Wipe the panel of the Unit with a soft cloth. Before cleaning the panel, disconnect the AC Power Cord.

Disc Handling

Handle the Discs so that fingerprints and dust do not adhere to the surfaces of the Discs.

- Always store the Disc in its protective case when it is not used.
- To clean-off, use a soft cloth.
- Do not use a hard cloth since this will mar the Disc.
- Wipe the Disc in a straight line form center to edge.
- Never wipe with a circular motion.
- Do not use detergent or abrasive cleaning agents.

Servicing

Should your Unit become inoperative, Do Not try to correct the problem yourself. There are no user serviceable parts inside. Call our toll free customer support line found on the cover of this Owner's Manual to locate an Authorized Service Center.

If the Laser Optical Pickup Unit is Dirty

If the Unit still does not perform properly when it is operated, please refer to the relevant sections and to **Troubleshooting** in this Owner's Manual. The laser optical pickup unit lens may be dirty. Consult your dealer or an Authorized Service Center for inspection and cleaning of the laser optical pickup unit lens.

IR Signal Check

If the Remote Control is not working properly, you can use a Digital or Cell Phone Camera to see if it is sending out an infrared signal.

e.g.) With a Digital Camera:
Point the Digital Camera towards the Remote Control infrared diode at the front of the Remote Control. Press any key on the Remote Control and look at the Camera Display. If an infrared pulsating light appears on the Display, the Remote Control is sending out an IR signal.

Note: Some Cameras have an IR Filter and will not Display the IR signal.

11 Specifications

Model #	LD320EM5
Picture	
Type	WXGA (1366 x 768 pixels 60Hz)
Aspect Ratio	16:9
Viewing Angles	178° (V) by 178° (H)
Built-in Digital / Analog Tuner	ATSC (Digital) / NTSC (Analog)
Sound	
Mono / Stereo	Mono, Stereo, Virtual Surround Sound
Power Output (RMS watts)	8 W x 2
Equalizer	5 Band
Ease of Use	
Picture Format	**SD (4:3 Source)** : Normal / 16:9 / Movie expand / Zoom / Wide **HD (16:9 Source)** : Normal / 4:3 / Movie expand / Zoom / Wide **HDMI AV (4:3 Source)** : Normal / 16:9 / Movie expand / Zoom / Wide / Full **HDMI AV (16:9 Source)** : Normal / 4:3 / Movie expand / Zoom / Wide / Full **PC Source** : Normal / Full / Unscaled (Refer to HDMI AV (16:9 Source) above if PC has HDMI Output.)
Channel	
Channel Coverage	**Terrestrial DTV (ATSC)** : VHF: 2~13 UHF: 14~69 (Each Channel has e.g. 2.1~2.9, 3.1~3.9, etc) **Terrestrial Analog (NTSC)** : VHF: 2~13 UHF: 14~69
CATV (Analog NTSC)	2~13, A~W W+1~W+94 (Analog W+1~W+84), A-5~A-1, 5A
Tuning System	Channel Frequency Synthesized Tuning System
Channel Access	Direct Access Number Keyboard, Programmable Scan, Channel +(up) / −(down) and PREV. CH (Previous Channel)
Disc	
Playback compatibility	DVD-Video, DVD-RW/-R, Audio CD, CD-RW/-R
Frequency response	**DVD (linear sound)** : 20 Hz to 20 kHz (sample rate: 48 kHz) 20 Hz to 44 kHz (sample rate: 96 kHz) **CD** : 20 Hz to 20 kHz
Signal-to-noise ratio (S/N ratio)	**CD** : 90 dB (JEITA)
Total distortion factor	**DVD** : 1 KHz 0.007% (JEITA) **CD** : 1 KHz 0.007% (JEITA)
Connectivity	
Composite Video Input	1
HDMI Input	2 Supporting video signals : 480i/p, 720p, 1080i @60Hz, 1080p @24/30/60Hz PC-Input signal up to WXGA (1360 x 768)
Analog Audio L/R Input	1
PC Input	via VGA, HDMI and HDMI-DVI + Analog Audio L/R
Digital Audio Output	1 Supporting Dolby Digital
Headphone Output	1 1/8 inch (3.5mm)
Power	
Power Requirements	120V~ +/− 10%, 60Hz +/− 0.5%
Temperature	
Operating Temperature	41 °F (5 °C) to 104 °F (40 °C)

• Specifications are Subject to Change without Prior Notice.

12 Warranty

LIMITED WARRANTY
NINETY (90) DAY LABOR / ONE (1) YEAR PARTS

WARRANTY COVERAGE:
This warranty obligation is limited to the terms as set forth below.

WHO IS COVERED:
This product warranty is issued to the original purchaser or the person receiving the product as a gift against defects in materials and workmanship as based on the date of original purchase ("Warranty Period") from an Authorized Dealer. The original sales receipt showing the product name and the purchase date from an authorized retailer is considered such proof.

WHAT IS COVERED:
This warranty covers new products if a defect in material or workmanship occurs and a valid claim is received within the Warranty Period. At its option, the company will either (1) repair the product at no charge, using new or refurbished replacement parts, or (2) exchange the product with a product that is new or which has been manufactured from new, or serviceable used parts and is at least functionally equivalent or most comparable to the original product in current inventory, or (3) refund the original purchase price of the product.
Replacement products or parts provided under this warranty are covered against defects in materials and workmanship from the date of the replacement or repair for ninety (90) days or for the remaining portion of the original product's warranty, whichever provides longer coverage for you. When a product or part is exchanged, any replacement item becomes your property and the replaced item becomes company property. When a refund is given, your product becomes company property.
Note: Any product sold and identified as refurbished or renewed carries a ninety (90) day limited warranty.

Replacement product can only be sent if all warranty requirements are met. Failure to follow all requirements can result in delay.

WHAT IS NOT COVERED - EXCLUSIONS AND LIMITATIONS:
This Limited Warranty applies only to new company manufactured products that can be identified by the trademark, trade name, or logo affixed to it. This Limited Warranty does not apply to any hardware product or any software, even if packaged or sold with the product, as manufacturers, suppliers, or publishers may provide a separate warranty for their own products packaged with the bundled product.

The company is not liable for any damage to or loss of any programs, data, or other information stored on any media contained within the product, or other additional product or part not covered by this warranty. Recovery or reinstallation of programs, data or other information is not covered under this Limited Warranty.

This warranty does not apply (a) to damage caused by accident, abuse, misuse, neglect, misapplication, or non-supplied product, (b) to damage caused by service performed by anyone other than company approved Authorized Service Location, (c) to a product or a part that has been modified without written company permission, or (d) if any serial number has been removed or defaced, or (e) product, accessories or consumables sold "AS IS" without warranty of any kind by including refurbished product sold "AS IS" by some retailers.

This Limited Warranty does not cover:
• Shipping charges to return defective product.
• Labor charges for installation or setup of the product, adjustment of customer controls on the product, and installation or repair of antenna/signal source systems outside of the product.
• Product repair and/or part replacement because of improper installation or maintenance, connections to improper voltage supply, power line surge, lightning damage, retained images or screen markings resulting from viewing fixed stationary content for extended periods, product cosmetic appearance items due to normal wear and tear, unauthorized repair or other cause not within the control of the company.
• Damage or claims for products not being available for use, or for lost data or lost software.
• Damage from mishandled shipments or transit accidents when returning product.
• A product that requires modification or adaptation to enable it to operate in any country other than the country for which it was designed, manufactured, approved and/or authorized, or repair of products damaged by these modifications.
• A product used for commercial or institutional purposes (including but not limited to rental purposes).
• Product lost in shipment and no signature verification receipt can be provided.
• Failure to operate per Owner's Manual.

TO OBTAIN ASSISTANCE…
Contact the Customer Care Center at:
        1 866 309 8819

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER, WITH THE ISSUING COMPANY NOT LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ON THIS PRODUCT IS LIMITED IN DURATION TO THE DURATION OF THIS WARRANTY.

Some states do not allow the exclusions or limitation of incidental or consequential damages, or allow limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you.

This warranty gives you specific legal rights. You may have other rights which vary from state/province to state/province.

FUNAI CORPORATION, Inc. 19900 Van Ness Avenue, Torrance, CA 90501

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