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HDR5750
HDR5710



EN	User Manual	EN	For further assistance, call the customer support service in your country. <ul style="list-style-type: none">To obtain assistance in the U.S.A., Canada, Puerto Rico, or the U.S. Virgin Islands, contact Philips Customer Care Center at 1-866-310-0744
ES	Manual del Usuario	ES	Pour obtenir de l'aide supplémentaire, communiquez avec le centre de service à la clientèle de votre pays. <ul style="list-style-type: none">Pour obtenir de l'aide aux États-Unis, au Canada, à Puerto Rico ou aux Îles Vierges américaines, communiquez avec le centre de service à la clientèle Philips au: 1-866-310-0744
FR	Manuel d'Utilisation	FR	Para obtener más información, llame al servicio de soporte al cliente de su país. <ul style="list-style-type: none">Para obtener asistencia en los Estados Unidos, en Canadá, Puerto Rico o en las Islas Vírgenes de los Estados Unidos, comuníquese con Centro de atención al cliente de Philips a 1-866-310-0744

PHILIPS

1. INTRODUCTION

Safety Information

Register online at www.productrecords.com/phl today to get the very most from your purchase.

Registering your model with PHILIPS makes you eligible for all of the valuable benefits listed below, so don't miss out. **Register online at www.productrecords.com/phl** to ensure:





* Product Safety Notification

By registering your product, you'll receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

* Additional Benefits

Registering your product guarantees that you'll receive all of the privileges to which you're entitled, including special money-saving offers.

Know these safety symbols

  <div>CAUTION RISK OF ELECTRIC SHOCK DO NOT OPEN</div>	 <p>The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.</p>
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.	 <p>The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.</p>

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 chocs électriques, introduire la lame la plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

 The symbol for CLASS II (Double Insulation)

The important note and rating are located on the rear or bottom of the cabinet.

For Customer Use

Enter below the Serial No. which is located on the cabinet.
Retain this information for future reference.

Model No. _____

Serial No. _____

PHILIPS Visit our World Wide Web Site at <http://www.philips.com/support>

IMPORTANT SAFETY INSTRUCTIONS

EN

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.



To Avoid the Hazards of Electrical Shock and Fire

- Do Not handle the Power Cord with Wet Hands.
- Do Not Pull on the Power Cord when disconnecting it from an AC outlet. Grasp it by the Plug.
- Do Not put your Fingers or Objects into the Unit.

Location and Handling

- Do Not install the Unit in direct sunlight, near strong magnetic fields, or in a place subject to dust or strong vibration.
- Avoid a place with drastic temperature changes.
- Install the unit in a horizontal and stable position. 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.
- Depending on the environment, the Temperature of this Unit may increase slightly. This is not a malfunction.
- Be sure to Unplug the AC Power cord from the AC outlet before Removing 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.

FCC WARNING

This equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the manual. The user could lose the authority to operate this equipment if an unauthorized change or modification is made.

This transmitter must not be co-located or operated in conjunction with any other antenna or transmitter.

RADIO-TV INTERFERENCE

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:

1. Reorient or relocate the receiving antenna.
2. Increase the separation between the equipment and receiver.
3. Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
4. Consult the dealer or an experienced radio / TV technician for help.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Continued on next page.

EN - 3

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de la classe (B) est conforme à la norme NMB-003 du Canada.

Supplementary Television Receiving Apparatus – Appareil supplémentaire de réception de télévision, Canada BETS-7 / NTMR-7.

Disconnect the AC plug to shut Off when trouble is found or not in use. The AC plug shall remain readily operable.

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.

IMPORTANT COPYRIGHT INFORMATION

Unauthorized copying, broadcasting, public performance and lending of discs are prohibited. This item incorporates copy protection technology that is protected by U.S. patents and other intellectual property rights of Rovi Corporation. Reverse engineering and disassembly are prohibited.

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 3.9 inches (10cm) or more around this apparatus.

Never use a gas duster on this unit. The gas trapped inside of this unit may cause ignition and explosion.

Do Not Connect your PC directly to the LAN terminal of the Unit.

Maintenance

■ Servicing

- Please refer to relevant topics on 'Troubleshooting' on pages 72-75 when trouble is found.
- If this unit becomes inoperative, do not try to correct the problem on your own. There are no user-serviceable parts inside. Disconnect the USB-HDD or USB Memory Stick (if connected to the unit), place the unit into Standby mode, unplug the AC power plug, and please contact: 1-866-310-0744 or visit : www.philips.com/support

■ Cleaning the cabinet

- Wipe the front panel and other exterior surfaces of the unit with a soft cloth.
- Never use a solvent, thinner, benzene or alcohol to clean the unit. Do not spray insecticide liquid near the unit. Such chemicals may discolor the surface or damage the unit.

■ HDD (Hard Disk Drive) handling

- HDD is a precision apparatus that is susceptible to vibration, strong impact or dirt. Depending on the installation environment or handling, the unit may become partially damaged or in the worst case, recording or replaying may not be available. Especially while the HDD is in motion, do not subject it to vibration or strong impact or pull out the power plug. And if a power failure occurs, the content of the recording / replaying program may be lost.
- HDD rotates at high speed when in operation. Be sure that rotation has stopped and then move the unit without subjecting it to strong impact or vibration.

■ IR signal check

- If the Remote Control does Not work properly, you can test IR signal using a Digital Camera or Cell Phone Camera to see if the Remote Control sends out the infrared signal.

1. Turn On the Digital or Cell Phone Camera.

2. Point the Digital or Cell Phone Camera towards the front of the Remote Control.

3. Press any Arrow key on the Remote Control and look at the Camera Display.

- If a pulsating light appears on the Display the Remote Control is sending out an IR signal.

ⓘ Note(s)

- Some Cameras have an IR Filter and will not display the IR signal.
- Remote-control operation on any other remote control, such as a universal remote control, is not guaranteed.



Continued on next page.

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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 manual, any adjustments, or assembly procedures not recommended or authorized in this manual shall void the warranty.

Important

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Product Safety Notification

By registering your product you receive notification - directly from the manufacturer - in the rare case of a product recall or safety defect.

Additional Benefits of Product Ownership

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For further assistance

For further assistance, call the customer support service in your country.

- To obtain assistance in the U.S.A., Canada, Puerto Rico, or the U.S. Virgin Islands, contact Philips Customer Care Center at 1-866-310-0744

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.recycle.philips.com

End of life directives

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

LICENSE

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Supplied Accessories

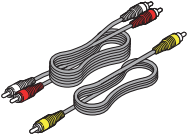
Remote Control
with AAA (1.5V) battery x2



RF coaxial cable



RCA audio/video cables



User Manual



Quick Start Guide



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Features

Recording

This unit lets you record Digital broadcast programs to the internal HDD (Hard Disk Drive) or USB-HDD (USB external HDD hooked up to this unit).

■ Program Recording

You can program up to 100 programs. Also, Daily / Weekly program mode is available.

■ One-Touch Timer Recording (OTR)

You can easily set a recording time. Every time [REC] is pressed during recording, the recording time will be increased by 15 minutes up to 4 hours. The recording will automatically stop when the recording reaches the time you set or the HDD / USB-HDD is full.

■ Auto-Chapter Function

Chapter marks will be inserted based on the interval you set before recording.

■ High Definition broadcast can be recorded in High Definition picture quality.

■ This Unit Cannot Record Analog Broadcasting. (Analog Broadcasting via Cable Box is also not available.)

■ USB-HDD (External)

You can connect an external USB-HDD device to this unit. Connect a USB-HDD with 32GB to 4TB capacity. (The unit will return an error when a USB-HDD with less than 32GB or more than 4TB is connected.)

This unit supports Bus-powered USB-HDD's.

■ HDR5710: MAX. 500GB formatted capacity HDD (Internal)

This unit is equipped with a 500GB HDD which allows you to Record programs for up to a total of 50 HD hours. You can record a single program for up to 8 hours at a time in Timer Recording or 4 hours using One-Touch Timer Recording.

■ HDR5750: MAX. 1TB formatted capacity HDD (Internal)

This unit is equipped with a 1TB HDD which allows you to Record programs for up to a total of 100 HD hours. You can record a single program for up to 8 hours at a time in Timer Recording or 4 hours using One-Touch Timer Recording.

Dubbing

You can Dub Titles bi-directionally between an HDD and a USB-HDD, and also select Copy or Move.

■ Multiple Title Dubbing

You can Dub up to 36 Titles at once.

■ Simultaneous Operation

You can also enjoy the Playback, the Recording and/or the Net TV simultaneously during Dubbing.

Playback

■ Variable Skip / Replay

You can Skip Forward or Backward a certain time, which is specified in the "Playback / Recording" Menu in advance, by simply pressing the SKIP (▶) or REPLAY (◀) buttons during Playback.

■ Chasing Playback during Recording and simultaneous Playback / Recording

You can Play back the already Recorded part of the Current Recording or another Title during Recording.

■ VOD service (NETFLIX / Vudu)

This Unit allows you to Play back the Files Purchased or Rented from VOD (Video-On-Demand) services. Use the Remote Control to browse each one of the VOD service pages. The Files are available on the Internet. When you Purchase or Rent VOD Files on the Internet, you will be asked to enter a Registration code and a Deactivation code. This Menu provides you with both Codes.

■ YouTube

This Unit lets you enjoy Video-sharing services provided on YouTube. Use the Remote Control to browse YouTube. You can Play contents uploaded by individuals and much more, all on your TV screen.

Editing

■ Deleting a Title

You may Delete a Recorded Title.

■ Rename a Title

You can put your Favorite name(s) on Titles.

Others

■ HDMI (High-Definition Multimedia Interface)

You can enjoy clearer Audio/Video Output by connecting this Unit to a Display device with an HDMI Input port.

■ LAN Terminal / Internal Wireless LAN adapter

Connects the LAN Terminal or Wireless LAN adapter to access the Internet.

■ Closed Caption decoder

Built-in Closed Caption decoder displays text for Closed Caption supported programs.

■ Child Lock

This feature allows you to Block children's access to inappropriate programs.

■ Auto Power Off

If there is No Operation for 3 hours, the Unit will go into Standby mode automatically.

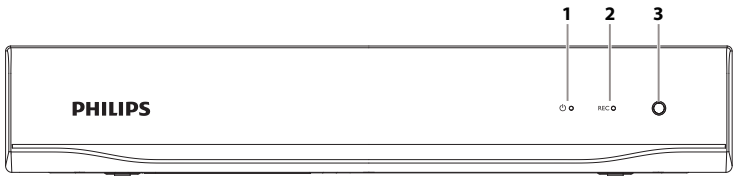
■ Choices for On-screen Language

Select your On-screen Language: English, Spanish or French.

Continued on next page.

Functional Overview

Front Panel



1. **⏻ (Power-ON) Indicator**
2. **REC Indicator**

Status Indicator

Power-On Indicator (White)		REC Indicator (Red)	Indicates...
Solid	and	No Light	Power ON
Blinking	and	No Light	Starting Up
Solid	and	Solid	Recording
Solid	and	Blinking	Recording Paused
No Light	and	No Light	Standby
Blinking	and	Blinking	Unmatched Remote Control Code (at Power ON)

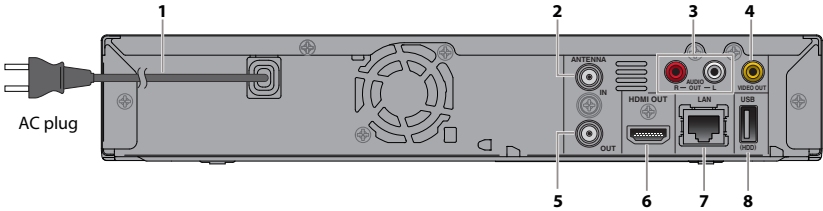
3. **Infrared Sensor Window**

Receives IR Signal from your Remote Control so that you can Control the Unit from a distance.

Note(s)

- The REC Indicator will blink in Standby mode if the Clock Setting is Not Completed, the Unit is acquiring Auto Clock Data, from 2 minutes before the Programmed Starting Time, or if the Unit and the Remote Control's Remote Control Code does Not match. This is Not a malfunction.

Rear Panel



1. **AC Power Cord**
 - Connect to a standard AC outlet to supply power to this Unit.
 - Unplug this cord from the AC outlet to completely shut down the Unit.
2. **ANTENNA IN jack**

Use to connect an Antenna / Cable Box / Satellite Receiver for TV pass through only.
3. **AUDIO OUT jacks**

Use to connect a TV monitor, AV Receiver or other devices with a set of RCA audio cable.
4. **VIDEO OUT jack**

Use to connect a TV monitor, AV receiver or other device with an RCA video cable.
5. **ANTENNA OUT jack**

Use to connect an RF Coaxial cable to pass the Signal to the ANTENNA IN on your TV.
6. **HDMI OUT jack**

Use to connect this unit and the Display with an HDMI cable.

7. **LAN terminal**

Use a shielded LAN cable to connect to a Network device (Hub, Broadband Router, Modem, etc.)
8. **USB input**

Use to connect a USB-HDD or USB Memory Stick with a Software Update File.

Note(s)

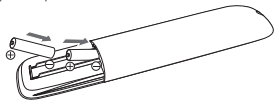
- Do Not Touch the Inner Pins of the Jacks on the Rear Panel. Electrostatic discharge may cause permanent damage to the Unit.
- This Unit does not have an RF Modulator.
- Do Not Connect any Devices other than the USB-HDD or the USB Memory Stick into the USB Input.
- USB Memory Stick can be used Only for a Software Update. (USB card reader; MP3 player; Digital camera, PC, keyboard, mouse, etc. cannot be used.)
- When connecting a USB-HDD or USB Memory Stick, connect it directly to the USB Input. Do not use a USB Extension cable.
- Make sure to Power-Off this Unit and the USB-HDD before Disconnecting the USB-HDD.

Continued on next page.

Remote Control

Installing the Batteries in the Remote Control

Install 2 AAA (1.5V) batteries matching the polarity indicated inside battery compartment of the remote control.



Note(s)

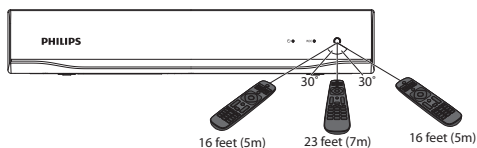
Incorrect use of batteries can result in hazards such as leakage and bursting. Please observe the following:

- Lithium or ni-cad and ni-mh rechargeable batteries are not recommended to use for Remote Control.
- Do not mix different types of batteries such as alkaline and standard (carbon-zinc).
- Do not mix new and old batteries together.
- Do not use different kinds of batteries together.
Although they may look similar, different batteries may have different voltages.
- Make sure that the + and - ends of each battery match the indications in the battery compartment.
- Remove batteries from battery compartment that is not going to be used for a month or more.
- When disposing of used batteries, please comply with Governmental regulations or Environmental Public Instruction's rules that apply in your country or area.
- Do Not recharge, short-circuit, heat, burn or disassemble batteries.

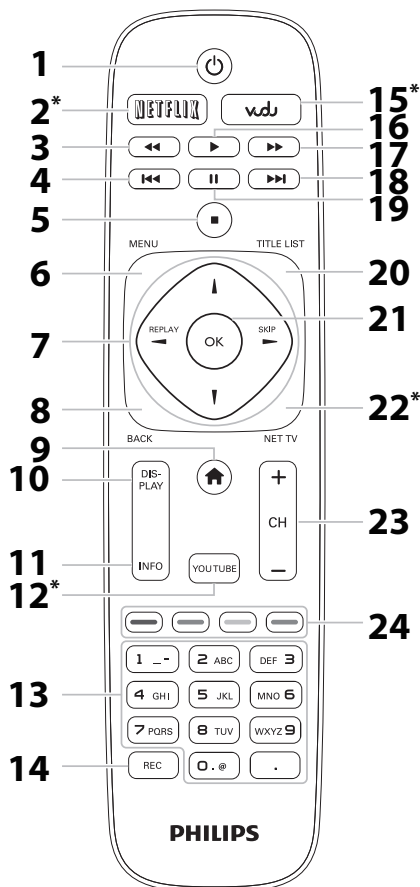
Using the Remote Control

Keep in mind the following when using the Remote Control

- Make sure that there are No Obstacles between the Remote Control and the Infrared Sensor Window on the unit.
- You need to set both the Unit and the Remote Control to the Same Code. (The Default setting for the Remote Control is "Code1") Refer to page 71 for more information on Remote Control Code.
- Remote operation may become unreliable if Strong Sunlight or Fluorescent light is shining on the Infrared Sensor Window on the unit.
- Remote Controls for different Devices can interfere with each other. Avoid using Remote Controls from other Devices which are located close to the unit.
- Replace the Batteries when you notice a fall off in the operating range of the Remote Control.
- The Maximum Operable ranges from the Unit are as follows.
 - **Line of sight:** approx. 23 feet (7m)
 - **Either side of the center:** approx. 16 feet (5m) within 30°
 - **Above:** approx. 16 feet (5m) within 15°
 - **Below:** approx. 10 feet (3m) within 30°



Continued on next page.



1. **⏻ (Power-ON) button**
 - Press to Turn On the unit or to Turn the unit into Standby mode. (To completely shut down the unit, you must unplug the AC power cord)
2. **NETFLIX button***
 - Press to Start up NETFLIX.
3. **⏮ (Rewind) button**
 - During Playback press to Fast Reverse the playback.
4. **⏮⏮ (Previous) button**
 - During Playback, press ⏮⏮ to Return to the Beginning of the Current Chapter and then Press ⏮⏮ as needed to go back to Previous Chapter(s).
5. **■ (Stop) button**
 - Press to stop Playback or Recording.
6. **MENU button**
 - Press to display the Sub Menu.
7. **▲/▼/◀/▶ (Cursor) buttons**
 - Press to select Items or Settings.
- REPLAY (◀) button**
- SKIP (▶) button**
 - During Playback, press to Skip or Rewind for a certain amount of time as long as they are pressed.

8. **BACK button**
 - Press to Return to the previously displayed Menu or Screen.
 - Press to Exit from the various Screen or Window.
9. **🏠 (home) button**
 - Press to Display the Home Menu.
10. **DISPLAY button**
 - Press to Turn the Display Menu On or Off.
11. **INFO button**
 - Press to display Information about the current program or the title currently playing.
12. **YOUTUBE button***
 - Press to Start up YouTube.
13. **Number buttons**
 - Press to select Channel numbers.
 - **(Dot) button**
 - Press the Dot and Minor Number buttons to select the Minor part of the Digital Channel Selection using Number and Dot buttons [e.g. 6 → . → 1 = Ch 6.1].
14. **REC button**
 - Press Once to Start Recording.
 - Press Repeatedly to Start the OTR (One-Touch Timer Recording) and set the Recording Time.
15. **VUDU button***
 - Press to Start up VUDU.
16. **▶ (Play) button**
 - Press to Start Playback or Resume Playback.
17. **▶▶ (Fast Forward) button**
 - During Playback, press to Fast Forward the Playback.
18. **▶▶ (Next) button**
 - During Playback, press to Skip to the next Chapter.
19. **⏸ (Pause) button**
 - Press to Pause Playback or Recording.
20. **TITLE LIST button**
 - Press to display the Title List
21. **OK button**
 - Press to Confirm or Determine the selected Item in the Menu. If Tuner Signal is Received, the Channel List will be Displayed.
22. **NET TV button***
 - Press to Display Net TV.
23. **CH +/- buttons**
 - Press to Change the Channel Up or Down.
 - Press to Move page Up or Down.
24. **red/green/yellow/blue button**
 - Functionally useful for Net service.

* Net Service will be activated by pressing this button.

Note(s)

- If using a universal Remote, please check for any additional Remote Code or contact the Manufacturer for additional assistances.
- Cannot guarantee about third party's Remote Controls. Please contact the Remote manufacturer if you have any problem with it.

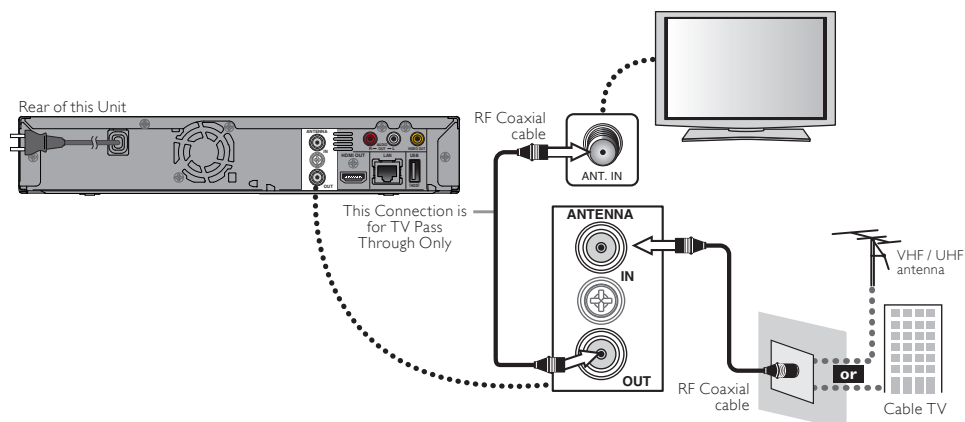
2. CONNECTIONS

Connection

■ Read this First:

1. Disconnect the AC Power cords of this unit, TV and other devices from the AC outlet.
2. Make the Connections as illustrated below.
3. After making All the Connections, connect the AC power cords of the devices.

Antenna Connection (Required)



! Caution

- Do Not use a Tightening Tool when connecting a F-type Coaxial cable connector to this Unit.
If the Coaxial cable is connected too tightly using a Tightening Tool, the Antenna Input Jack may be damaged.

ⓘ Note(s)

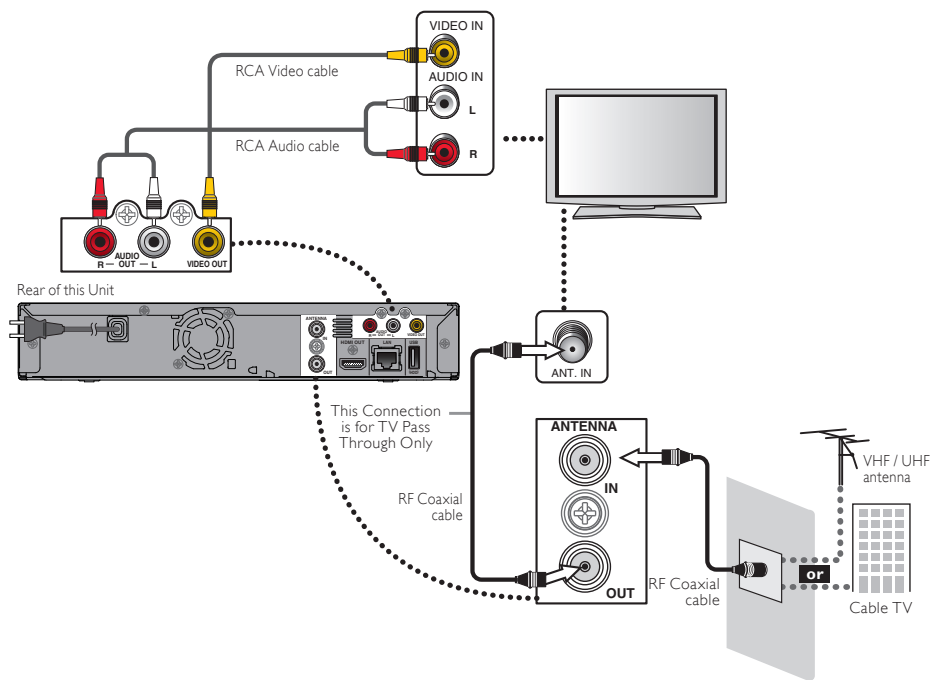
- For your Safety and to avoid damage to the Device, please unplug the RF Coaxial cable from the ANTENNA IN/OUT jack before moving the unit.
- If you use an Antenna to receive Analog TV, it should also work for DTV reception. Outdoor or Attic antennas will be more effective than Set-top Indoor versions.
- ANTENNA OUT jack is for TV pass through only. HDD/USB-HDD playback through the RF is not supported.

■ Supplied Cables used in this Connection are as follows:

- RF Coaxial cable x 1
Please purchase the rest of the necessary Cables at your local store.

Continued on next page.

Connecting to a TV Using Audio / Video cables



■ Supplied cables used in this connection are as follows:

- RF Coaxial cable x 1
- RCA Audio (L/R) cable x 1
- RCA Video cable x 1

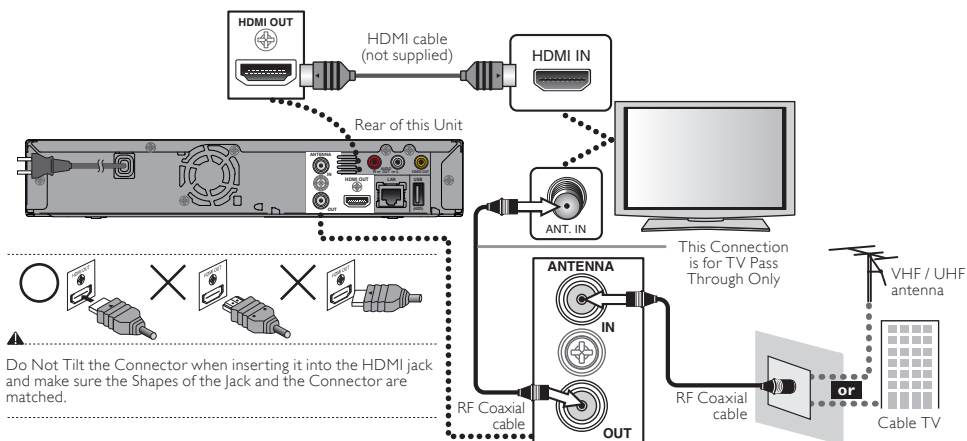
Please purchase the rest of the necessary Cables at your local store.

ⓘ Note(s)

- Connect this unit directly to the TV. If the audio / video cables are connected to a VCR then the pictures may be distorted due to the copyright protection system.
- When the HDMI Video Resolution is set to "Auto" or "1080p", Video signals are not output from the Video Out jack depending on your TV. (Refer to page 70.)

Connecting to a TV Using an HDMI cable

- HDMI outputs the Video/Audio signals without converting to Analog signals.
- No Audio connection is required.
- High Speed HDMI cable (also known as HDMI Category 2 cable) is recommended for Better Compatibility.
- Use an HDMI cable with the HDMI logo (a certified HDMI cable) for this connection.



Supplied cables used in this connection are as follows:

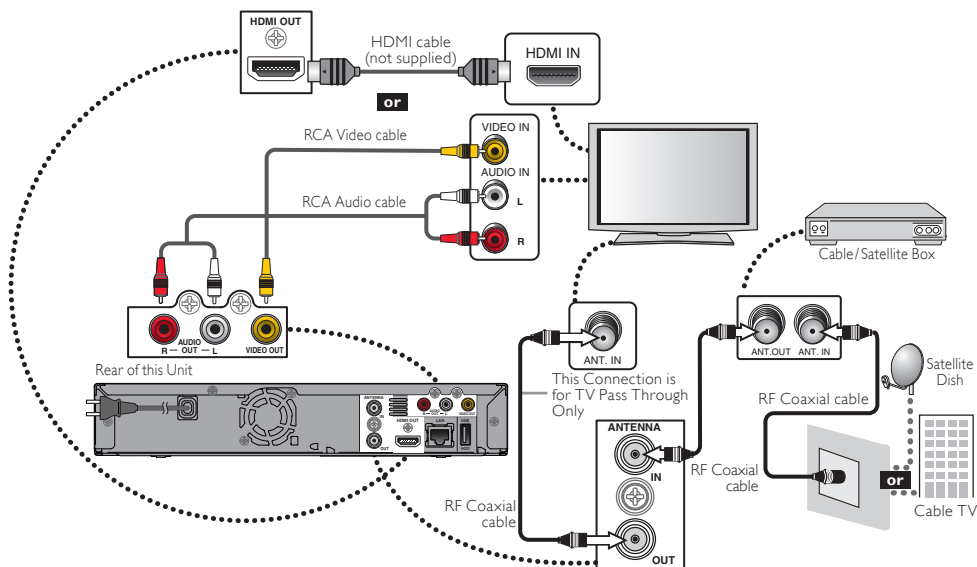
- RF Coaxial cable x 1
Please purchase the rest of the necessary Cables at your local store.

Note(s)

- Some Devices with an HDMI input may not operate properly with this unit.
- When using an HDCP-incompatible Display Device, the Image will not be viewed properly.
- The Audio signals (including the sampling frequency, the number of channels and bit length) from the HDMI connector may be limited by the Device that is connected.
- When this unit's HDMI connector is connected to a DVI-D compatible monitor (HDCP compatible) with an HDMI-DVI converter cable, the signals are output in digital RGB.
- When a Power Failure occurs or when you Unplug the Unit, some problems with the HDMI setting might occur. Please Check and Set the HDMI Setting again.

Continued on next page.

Connecting to a Cable / Satellite Box



■ Supplied Cables used in this Connection are as follows:

- RF Coaxial cable x 1
- RCA Audio (L/R) cable x 1
- RCA Video cable x 1

Please purchase the rest of the necessary Cables at your local store.

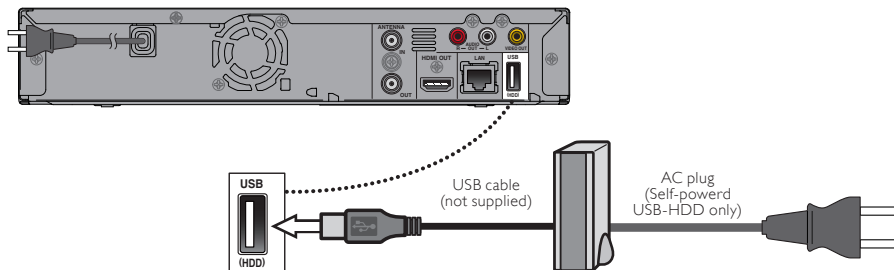
ⓘ Note(s)

- Required Cables and Connecting methods differ depending on the Cable / Satellite box.
For more information, please contact your Cable / Satellite Provider.
- **You cannot Record One Channel while Watching another Channel.**

Continued on next page.

Connecting to a USB-HDD

EN



Note(s)

- USB-HDD Registration Screen will appear if you connect Unregistered USB-HDD to this Unit. Please select "Yes" using [◀/▶], then press [OK]. Move on to Step 2 in 'Registering a USB-HDD' on page 56.
- Do Not Turn Off the Unit or Unplug any Cable while the USB-HDD is Operating. Doing so Causes a Malfunction of the USB-HDD.
- For a Self-powered USB-HDD, make sure to Turn Off the USB-HDD when Connecting it to the Unit or Disconnecting it from the Unit.

After Turning Off the Unit, make sure All the LED Indicators on the Front Panel of the Unit are Off.

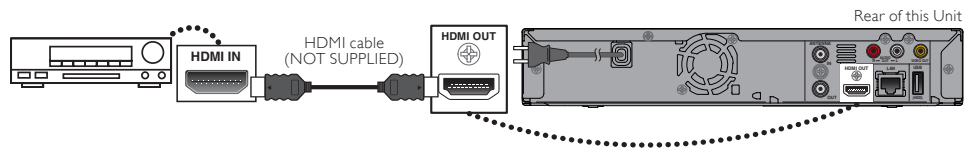
- Turning Off the unit or Disconnecting the USB-HDD while operating Causes Data Loss and Malfunction.

Continued on next page.

Digital Audio Connection

HDMI Audio Connection

AV Receiver / Amplifier with an HDMI Input jack



Refer to page 70 to set up "HDMI Audio Out".

Audio format	Dolby Digital Setting on this Unit	HDMI
Dolby Digital/Dolby Digital Plus	PCM	2 channel PCM
	Bitstream	Dolby Digital
LPCM	PCM	2 channel PCM
	Bitstream	

Actual Output

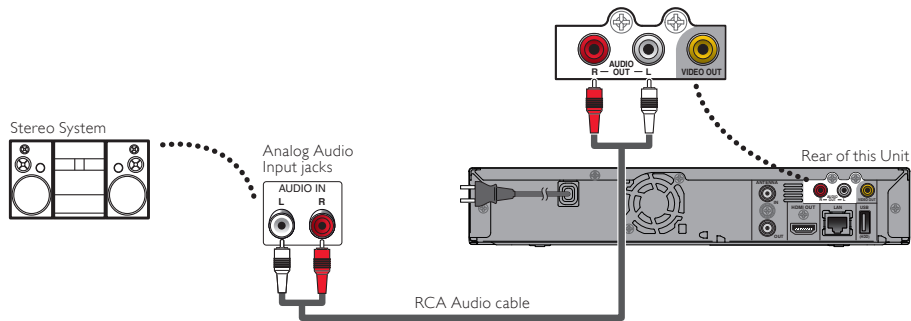
Cables Not Supplied.

Please purchase the necessary Cables at your local store.

Note(s)

- The Audio source in a Dolby Digital multi channel Surround Format cannot be recorded as Digital Sound by an MD or DAT deck.
- By Connecting this Unit to a Dolby Digital Decoder, you can enjoy High-quality Dolby Digital multi channel Surround Sound as in Movie Theaters.
- Playing back a Recorded Title using incorrect Digital Audio Settings may generate Noise Distortion and also damage Speakers.

2 Channel Analog Audio Connection



Supplied Cables used in these Connections are as follows:

- RCA Audio (L/R) cable x 1

Continued on next page.

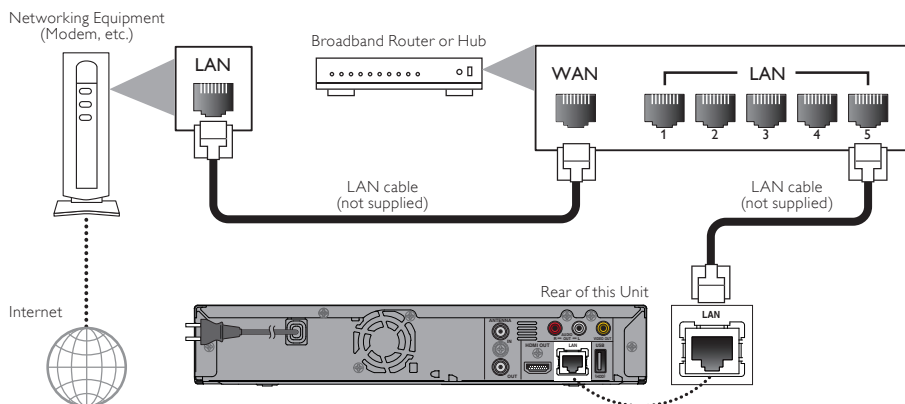
Connection to the Network

By connecting this unit to the Internet, you can update the Software via the Internet and access network services.

Note(s)

- For a stable Connection, Wired Connection is recommended when using following Features.
(Using following Features with Wi-Fi Connection can be affected by other devices using Radio frequencies.)
 - Video Streaming services
 - Network Update

Wired Connection



Caution

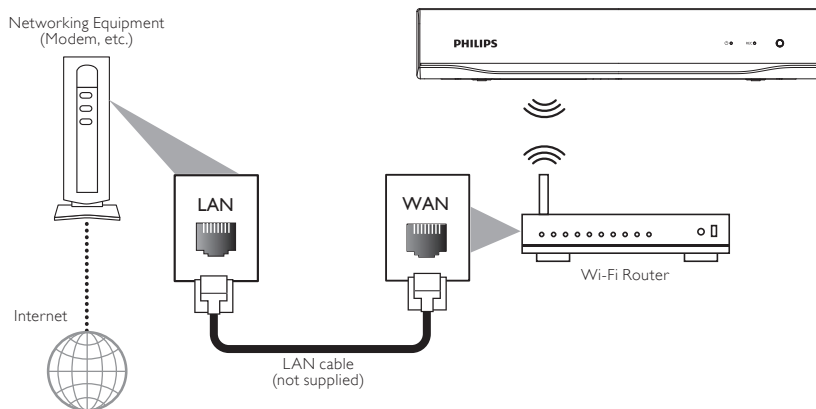
- Do Not Insert any Cable other than a LAN cable to the LAN terminal to avoid damaging the Unit.
- Do Not Connect your PC directly to the LAN terminal of this Unit.

Note(s)

- After you made a Wired Connection, set up necessary Network Settings.
(For Network Setting of Wired Connection, refer to 'Network Settings' on page 49.)
- If your Modem does Not have Router Functions, connect a Wired Router.
- If your Modem has Router Functions but there is No Vacant port, add a Hub.
- For a Wired Router, use a Router which supports 10BASE-T / 100BASE-TX ETHERNET standard.
- Please purchase Shielded LAN cables at your local store and use them when you Connect to Network equipment.

Continued on next page.

■ Wi-Fi Router Connection



ⓘ Note(s)

- After you made the Wi-Fi Router Connection, set up necessary Network Settings.
(For the Network Setting of Wi-Fi Router Connection, refer to 'Network Settings' on page 49.)
- For a Wi-Fi Router, use a Router which supports IEEE 802.11 b/g/n.
("n" type is recommended for stable operation of the Wi-Fi network.)
- Set the Wi-Fi Router to Infrastructure mode. This unit does Not support Ad-hoc mode.
- Other Radio devices or Obstacles may cause Interference to the Wi-Fi Network Connection.

3. INITIAL SETUP

Before You Start

Finding the Viewing Channel on your TV

After you have completed All of the Connections to your TV, review the Steps below.

1. Press **[⏻ (Power-ON)]** to Turn On the unit.
2. Turn On your TV.
3. Find the Button on the TV's Remote Control that accesses the External Source Input. (The button may be labeled 'Source', 'Select' or 'Input'. Refer to your TV's user manual.)
Press that Button Repeatedly until you see the Welcome Screen on the TV screen.
 - If you see the Welcome Screen, that is the correct viewing Source Input associated with this unit's output. Make sure to always select this Source Input on your TV when using this unit.
 - If the TV is connected using an HDMI cable, it may take a few moments until the Welcome Screen appears.

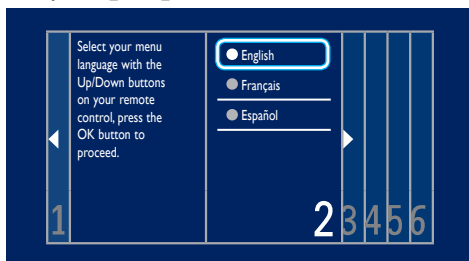
Initial Setup

Please follow the instructions below to complete the Initial Setup.

1. While the Welcome Screen is displayed, press **[OK]**.
 - 'Language Setting' screen will appear.
 - In Initial Setup, pressing **[BACK]** lets you go back to the previous screen. Also, pressing **[◀/▶]** lets you go back to the previous screen or go forward to the next screen when it is available.

Language Setting

2. Select your Language using **[▲/▼]**, then press **[OK]**.



- 'Country Setting' screen will appear.

Country Setting

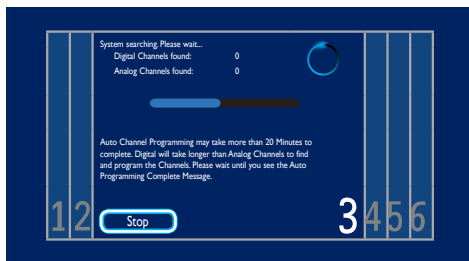
3. Select your Country using **[▲/▼]**, then press **[OK]**.

- 'Antenna / Cable Signal Setting' screen will appear.

Antenna / Cable Signal Setting

4. Select "Antenna" or "Cable" using **[▲/▼]**, then press **[OK]**.

- Select "Antenna" for Terrestrial Broadcasting. Select "Cable" for Cable Television. Then, Channel Scan will begin.
- Select "Skip" if you wish to Skip this Setting.



- If you wish to Skip Scanning, select "Stop" by pressing **[OK]**.

5. Press **[OK]** on Finish.

- 'Time Zone' screen will appear.

Continued on next page.

Time Zone

6. Select your Time Zone using [▲/▼], then press [OK].

Time adjustment for each Time Zone	
Atlantic	GMT (Greenwich Mean Time) - 4 hours
Eastern	GMT (Greenwich Mean Time) - 5 hours
Central	GMT (Greenwich Mean Time) - 6 hours
Mountain	GMT (Greenwich Mean Time) - 7 hours
Pacific	GMT (Greenwich Mean Time) - 8 hours
Alaska	GMT (Greenwich Mean Time) - 9 hours
Hawaii	GMT (Greenwich Mean Time) - 10 hours

- 'Clock Setting' screen will appear:

Clock Setting

7. Enter Year / Month / Day / Hour / Minute and select AM or PM using [▲/▼/◀/▶], then press [OK].

- You can also use [the Number buttons] to Enter a Number.
- You can Move between the Input Fields using [◀/▶].
- If you wish to automatically set Daylight Saving Time, leave DST ON.
- The highlight will move to "Next" upon pressing [OK] at an Input field.

8. Press [OK] on "Next".

- 'Network Setting' screen will appear.

Network Setting

If you wish to proceed with the Network Setting, perform this setting. If you wish to skip this setting, select "Skip" using [◀/▶], then press [OK]. Move on to 'Auto Update Setting' on page 23.

9. Select "Next" using [◀/▶], then press [OK].

- 'Network Selection' screen will appear.

10. Select "Wired" or "Wireless" using [▲/▼], then press [OK].

Wired	If you Connect this Unit to the Network using an Ethernet cable, select "Wired" to Connect to the Internet.	➔ A
Wireless	If you have a Wireless Router, select "Wireless" to Connect to the Internet.	➔ B

A For "Wired" Connection

Connection Test will start automatically. Refer to 'Connection Test' on page 55.

1. After Connection Test, the Test result will be displayed. Press [OK] on "Info" for detailed Network Information, then press [OK] on "Next" to complete the Network Setup.
 - Please move on to 'Auto Update Setting' on page 23.

B For "Wireless" Connection

Select "Easy Connect" or "Scan" using [▲/▼], then press [OK].

Easy Connect (WPS)	Select this setting if your Wireless Router has a WPS button*1. It is the easiest way to Set up a Wireless Connection. If it fails, try "Easy Connect" again.*2	➔ a
Scan	This Setting automatically Searches for Wireless Networks.	➔ b

*1 WPS (Wi-Fi Protected Setup) button may be called PBC (Push Button Configuration) button on your Wireless Router.

*2 If it Continuously fails, then refer to the Router's Manual for more details.

a "Easy Connect (WPS)" Method

1. Press the WPS button on your Wireless Router.
2. Return to this Unit within 2 minutes, select "Connect" using [◀/▶], then press [OK].
 - Connection Test will start automatically.
3. After Connection Test, the Test result will be displayed. Press [OK] on "Info" for detailed Network Information, then press [OK] on "Next" to complete the Network Setup.
 - Please move on to 'Auto Update Setting' on page 23.

b "Scan (Access Point Scan)" Method

- AP (Access Point) list will appear.

b-1 If the AP is compatible with WPS

1. Select an AP to which you wish to Connect this Unit using [▲/▼], then press [OK].
 - If you select an AP which does Not Support WPA, WEP / WPA / WPA2 key entry Screen will appear. Please refer to 2. C: on the next page.
2. A: "WPS code"
 - 1 Select "WPS code" using [▲/▼], then press [OK].
 - An 8-digit PIN Code will be shown on screen.
 - 2 Log on to your Wireless Router and enter the 8-digit PIN Code in it.
 - 3 Return to this Unit, select "Connect" using [◀/▶], then press [OK].
 - Step 2 and 3 need to be performed within 2 minutes.
 - Connection Test will Start automatically.

2. B: "Easy Connect"

- 1 Select "Easy Connect" using [▲/▼], then press [OK].
 - Refer to a "Easy Connect (WPS)" Method above.

Continued on next page.

2. C: "Manual"

- 1 Select "Manual" using [**▲**/**▼**], then press [**OK**].
 - WEP / WPA Key entry screen will appear.
 - If your wireless router is not protected by WEP / WPA / WPA2, Connection Test will start automatically.
- 2 Enter the WEP / WPA / WPA2 key using the On screen Keyboard on screen.
 - Follow the On-screen Instructions.
 - For Details on how to use the On screen Keyboard, refer to 'Guide to the On Screen Keyboard' on page 45.
 - Confirmation Message will appear. Select "Yes" and Connection Test will automatically Start.
3. After Connection Test, the test result will be displayed. Press [**OK**] on "Info" for detailed Network Information, then press [**OK**] on "Next" to complete the Network Setup.
 - Please move on to 'Auto Update Setting' below.

b - ② If the AP is NOT compatible with WPS

1. Select an AP to which you wish to connect this unit using [**▲**/**▼**], then press [**OK**].
2. After Connection Test, the Test result will be displayed. Press [**OK**] on "Info" for detailed Network Information, then press [**OK**] on "Next" to complete the Network Setup.
 - Please move on to 'Auto Update Setting' below.

Note(s)

- "Easy Connect (WPS)" Method is only available when your Wireless Router supports it. For details, please refer to the User Manual of your Wireless Router.
- If more than 64 AP's are found, a confirmation message will appear, then the Screen goes back to the AP list.
- Connection Test will automatically Start when you select an AP that does not have an Authentication Method.

Auto Update Setting

If you wish to Set the unit to automatically perform Network Update for the latest Software, Activate this Function.

11. Select "On" using [**◀**/**▶**], then press [**OK**].
12. Select "Next" using [**◀**/**▶**], then press [**OK**].
 - If the Connection Test result earlier was Pass, the unit will perform Network Update immediately. Please follow the On-screen Instructions.
 - If you skipped Network Setting, the unit will switch to the TV viewing mode.
If you wish to set the Network Settings later, you can refer to 'Network Settings' on page 49.

4. VIEWING TV

While Viewing TV

Channel Selection

Select a channel using **[CH +/-]** or **[the Number buttons]** on the Remote Control.

Using **[CH +/-]**

Press **[CH +]** and **[CH -]** to switch up and down through the memorized channels.

Using **[the Number buttons]**

Press **[0] - [9]** and **[.]** to directly switch to the channel.

Digital TV Channels

Enter the Major and Minor Channel Numbers using **[the Number buttons]** to select a Channel.

For 1-digit Major Channel number
e.g.) 2.1 ch: **[2] + [.] + [1]**

For 2-digit Major Channel number
e.g.) 35.1 ch: **[3] + [5] + [.] + [1]**

Analog TV Channels

For 1-digit number
e.g.) 2 ch: **[0] + [2]** or **[2] + [.]** or **[2]** + leave it for 3 seconds

For 2-digit number
e.g.) 12 ch: **[1] + [2]**

Note(s)

- It may take a moment to switch the Digital TV channels.

About Digital TV Broadcasting

With its High-Definition Broadcast, Digital Broadcasting far surpasses Analog Broadcasting in both Picture and Sound Quality.

Channel List

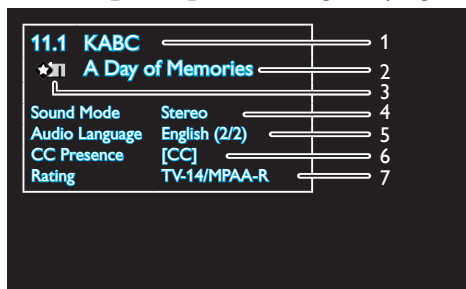
You can switch the Channel quickly using Channel List.

- Press **[OK]** while viewing a TV program.
 - Channel List window will appear.
- Select a Channel using **[▲/▼]**, then press **[OK]**.

Detailed Information on the Program

You can check the information on the TV program that is currently on-air.

- Press **[INFO]** while viewing a TV program.



1. Channel number / Broadcast station

2. Program Title

3. Favorite Channel Group

The Favorite Channel Group Icon will be displayed if you Registered the Favorite Channel on your List.

4. Audio Mode

5. Audio Language

(Indicates the Language currently selected.)

6. Closed Caption

(Indicates the Program being broadcast has Closed Captioning available.)

7. Program Rating

Note(s)

- In some cases, DTV Closed Caption Function on the Unit may not work even when the Closed Caption Icon is displayed. In such case, check the Closed Caption Setting on your TV (Only if the Unit is connected to a TV with the RCA Video Cable).
- The Display will automatically disappear in 5 Seconds.

Audio Languages

You can switch Audio Language while viewing a Digital TV program.

- Press **[MENU]** while viewing a TV program.
 - Sub Menu window will appear.
- Select "Audio Language" using **[▲/▼]**, then press **[OK]**.
 - Available Languages will be displayed.
- Select a Language using **[▲/▼]**, then press **[OK]**.
 - Available Languages will vary depending on the TV program.

Note(s)

- If there is Only one Audio Language Available for the Digital TV you are Viewing, "Audio Language" Setting will Not be Displayed.

Continued on next page.

Closed Caption

Closed Captioning displays the Audio voice of the TV program as Text superimposed on TV screen.

For Digital TV programs, refer to 'Digital Caption Service' on page 68 to Configure further Settings beforehand.

For Analog TV programs, refer to 'Caption Service' on page 68 to Configure further Settings beforehand.

1. Press **[MENU]** while viewing a TV program.
 - Sub Menu window will appear.
2. Select "Closed Caption" using **[▲/▼]**, then press **[OK]**.
3. Select "Off" or "On" using **[▲/▼]**, then press **[OK]**.

Favorites

You can Create Lists of your preferred TV channels so that you can find those Channels easily.

Switching between Favorites

1. Press **[MENU]** while viewing a TV program.
 - Sub Menu window will appear.
2. Select "Favorites" using **[▲/▼]**, then press **[OK]**.
 - Favorite Group List will appear.
3. Select a desired Favorite Group using **[▲/▼]**, then press **[OK]**.

Creating or Editing Favorite Channel Group

1. Press **[MENU]** while viewing a TV program.
 - Sub Menu window will appear.
2. Select "Favorites" using **[▲/▼]**, then press **[OK]**.
 - Favorite Channel Group List will appear.
3. Select a desired Favorite Channel Group using **[▲/▼]**, then press **[OK]**.
4. Press **[MENU]** to enter Edit mode.
 - Channel List will appear.
5. Select the desired Channel using **[▲/▼]**, then press **[OK]** to Add or Remove on the list of Favorite Channels.
 - ☒ indicates that the Channel is Added.
 - ☐ indicates that the Channel is Not Added.

Note(s)

- Channel List is Not available while Playing a Recorded Title.



Noise Reduction

Reduces the Noise of the Playback picture.

1. Press **[MENU]** while viewing a TV program.
 - Sub Menu window will appear.
2. Select "Noise Reduction" using **[▲/▼]**, then press **[OK]**.
3. Select the Desired Setting using **[▲/▼]**, then press **[OK]**.

Switching between HDD Mode / USB-HDD Mode

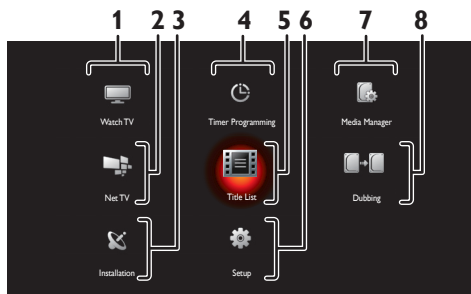
You can Switch between "HDD" and "USB-HDD" for Recording or Playback.

1. Press **[MENU]** while viewing a TV program.
 - Sub Menu window will appear.
2. Select "HDD Source" using **[▲/▼]**, then press **[OK]**.
3. Select "HDD" or "USB-HDD" using **[▲/▼]**, then press **[OK]**.
 - Selected Media Icon  or  will appear for 2 seconds.

5. INSTALLATION

Guide to the Home Menu

Press [**▲(home)**] to Display the Home Menu. Then use [**▲/▼/◀/▶**] to select a Menu and press [**OK**] to Display the Menu. These Menus provide entries to all Main Settings.



- 1. Watch TV:**
To Watch TV.
- 2. Net TV:**
To Display the Net TV.
- 3. Installation:**
To Display the Settings for Installation menu.
- 4. Timer Programming:**
To Display the Timer Programming list.
- 5. Title List:**
To Display the Title List for HDD or USB-HDD.
- 6. Setup**
To Display the Setup menu.
- 7. Media Manager:**
To Manage the media of HDD or USB-HDD.
 - “Media Manager” is not available during Dubbing or Recording and does not work from 2 minutes before the Programmed Starting time.
- 8. Dubbing:**
To Display the Dubbing Menu.
 - “Dubbing” is not available under conditions listed below.
 - During Dubbing
 - While the USB-HDD is Disconnected
 - While the Unregistered USB-HDD is Connected
 Refer to ‘Registering a USB-HDD’ on page 56.

Channel Installation

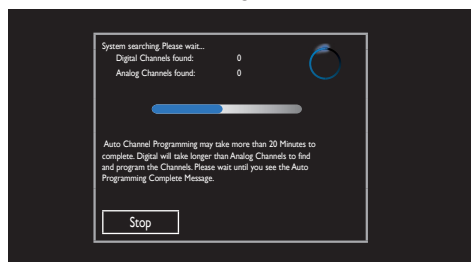
Be sure the RF Cable is correctly connected to this Unit and you are registered with your Cable TV provider when you install Cable Channels.

- 1.** Press [**▲(home)**], then select “Installation” ➔ “Channels” using [**▲/▼/◀/▶**], then press [**OK**].
 - “Channels” is Not available (Not Displayed) during Recording.

Autoprogram (Auto Channel Scan)

If you switch Input Signal wires (e.g. between Antenna and CATV) or if you move the Unit to a different area after the Initial Setting or if you restore the DTV Channels you Deleted, it is recommended to use Autoprogram to perform a New Channel search. You need to select the Signal type in the “Installation Mode” (Refer to ‘Installation Mode’ on page 27.) before you perform Autoprogram.

- 2.** Select “Autoprogram” ➔ “Start Now” using [**▲/▼/◀/▶**], then press [**OK**].
 - The PIN Code will be required if you have Locked Channels. Refer to ‘Child Lock’ on page 29.
 - Confirmation Message will appear.
- 3.** Select “Yes” using [**◀/▶**], then press [**OK**].
 - Channel search will begin.



- 4.** Press [**OK**] on “Finish” to complete Channel Scan.
 - Press [**▲(home)**] Repeatedly to Exit.

ⓘ Note(s)

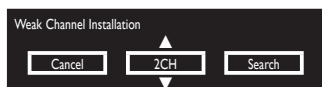
- After Setting “Autoprogram”, using [**CH +/-**] skips Unavailable Programs automatically.
- If you are Not Receiving a Signal from your Cable Service, contact the Cable Provider.
- If you select “Stop” by pressing [**OK**] during “Autoprogram”, the setup of TV channels will be Cancelled.

Continued on next page.

Weak Channel Installation

This function lets you add the channels that were not added by "Autoprogram" due to the reception conditions during the Initial Setup. It is only available when you select "Antenna" in "Installation Mode".

2. Select "Weak Channel Installation" using [▲/▼], then press [OK].
 - The PIN Code will be required if you have locked channels. Refer to 'Child Lock' on page 29.
3. Select the Channel Input box using [◀/▶], then select a channel you wish to memorize, using [▲/▼].



4. Select "Search" using [◀/▶], then press [OK].
5. "Search" will change to "Store" when the Channel is found, then press [OK].

Note(s)

- In most cases, Digital Channels are Not Broadcast on the RF Channel on which they appear on your TV. To add Digital Channels you need to know the RF Channel on which the Digital Channel is being Broadcast. (e.g. If there is a Digital Channel 9.1 which is being Broadcast on RF Channel 25, you need to enter 25 while performing a Weak Channel installation.) To find out the RF Channel on which a particular Digital Channel is being Broadcast, please contact your Local Service provider. Installing Digital Channels using "Weak Channel Installation" might Not work for Direct Cable Connections and if the Digital Signal is too weak for the TV to process.

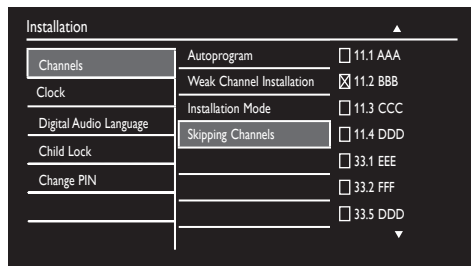
Installation Mode

2. Select "Installation Mode" using [▲/▼], then press [OK].
3. Select "Antenna" or "Cable" using [▲/▼], then press [OK].
 - 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 and Analog Cable Channels available in your area.

Skipping Channels

The Channels selected here will be skipped when selecting the Channels using [CH +/-]. Those Channels can still be selected using [the Number buttons].

2. Select "Skipping Channels" using [▲/▼], then press [OK].
3. Select the Channel you wish to Skip using [▲/▼], then press [OK].
 - ☐ indicates that the Channel is Not Skipped.
 - ☒ indicates that the Channel is Skipped.



- The Skipped Channels are Not Displayed on the List of Favorite Channels.
- To Reactivate a Skipped Channel, use [▲/▼] then press [OK].
- Repeat Step 3 until you select All the Channels you wish to skip.
- Press [⬆️(home)] Repeatedly to Exit.

Continued on next page.

Clock Setup

Configure the Clock, Time Zone and Daylight Saving Time Settings.
If the Clock is Not Set Correctly, Timer Recording does Not Work Properly.

1. Press [**Home**], then select "Installation" ▶ "Clock" using [**▲**/**▼**/**◀**/**▶**], then press [**OK**].
 - "Clock" is Not available (Not Displayed) during Recording.

Clock Setting (Manual)

If this Unit is unable to obtain the Clock Information automatically, Set up the Clock Manually.

2. Select "Clock Setting" using [**▲**/**▼**], then press [**OK**].
3. At <Date> section, enter "Year" / "Month" / "Day" using [**▲**/**▼**/**◀**/**▶**].

4. At <Time> section, enter Hour / Minute and select AM / PM using [**▲**/**▼**/**◀**/**▶**], then press [**OK**].
5. Press [**OK**] on "OK" to complete.
 - Press [**Home**] Repeatedly to Exit.

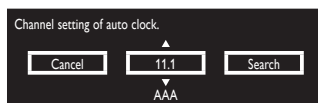
Note(s)

- "Clock Setting" is Not available (Not Displayed) when "Auto Clock" is "On".

Clock Setting (Auto)

This Unit can set the Time and Date Automatically by referring to a Channel that carries Clock Information.

2. Select "Auto Clock" using [**▲**/**▼**], then press [**OK**].
3. Select "On" using [**▲**/**▼**], then press [**OK**].
 - Channel selection window will appear.
4. Select a channel using [**▲**/**▼**], move to "Search" using [**▶** (Cursor)], then press [**OK**].



- This Unit will Automatically Search for the Clock Information and Display the result.
5. At "DST", select "On" or "Off" for Daylight Saving Time, then press [**OK**].
 6. Press [**OK**] on "OK" to complete.
 - Press [**Home**] Repeatedly to Exit.

Note(s)

- "Auto Clock" is Not available (Not Displayed) if there is No Digital Channel entry in Antenna / Cable mode.
- If "Auto Clock" obtained the Incorrect Clock Information, please Proceed with 'Clock Setting (Manual)'.

Time Zone

Set your Time Zone.
This unit recognizes 7 Time Zones as shown below.

- | | | | |
|------------|-----------|-----------|------------|
| • Atlantic | • Eastern | • Central | • Mountain |
| • Pacific | • Alaska | • Hawaii | |

2. Select "Time Zone" using [**▲**/**▼**], then press [**OK**].
3. Select your Time Zone using [**▲**/**▼**], then press [**OK**].
 - Press [**Home**] Repeatedly to Exit.

Daylight Saving Time

Daylight Saving Time is referred to as "Summer Time".
Using this Function lets you Set the Clock Back and Ahead for Daylight Saving Time.

2. Select "Daylight Saving Time" using [**▲**/**▼**], then press [**OK**].
3. Select "On" or "Off" using [**▲**/**▼**], then press [**OK**].
 - Press [**Home**] Repeatedly to Exit.

Continued on next page.

Audio Setup

Configure the Audio Related Settings.

1. Press [**⬆(home)**], then select "Installation" using [**▲/▼/◀/▶**], then press [**OK**].

Digital Audio Language

Set the Audio Language for Digital Broadcasting. This Setting applies to Digital TV Viewing and Recording.

2. Select "Digital Audio Language" using [**▲/▼**], then press [**OK**].
3. Select a language using [**▲/▼**], then press [**OK**].
 - Press [**⬆(home)**] Repeatedly to Exit.

Alternate Audio

For SAP (Secondary Audio Program) in Analog broadcasting, select "Main" or "SAP" for the audio.

2. Select "Alternate Audio" using [**▲/▼**], then press [**OK**].
3. Select "Main" or "SAP" using [**▲/▼**], then press [**OK**].
 - Press [**⬆(home)**] Repeatedly to Exit.

Mono / Stereo

For Analog Broadcasting, Set the Audio in Monaural or Stereo.

2. Select "Mono / Stereo" using [**▲/▼**], then press [**OK**].
3. Select "Mono" or "Stereo" using [**▲/▼**], then press [**OK**].
 - Press [**⬆(home)**] Repeatedly to Exit.

Child Lock

You can Prevent Children from Viewing certain types of Programs or Channels by Locking the TV controls using Specific Ratings.

1. Press [**⬆(home)**], then select "Installation" ➔ "Child Lock" using [**▲/▼/◀/▶**], then press [**OK**].
 - PIN Code entry window will appear:
2. Enter a 4-digit Number using [**the Number buttons**].
 - If you have Not Set up your PIN Code yet, enter [**00**] [**00**] [**00**] [**00**].
 - When the PIN Code is Correct, the Child Lock Menu will be displayed.
 - Refer to 'Changing PIN Code' on page 31 when Changing the PIN Code.

Channel Lock

Set it to Restrict Access on Certain Channels.

3. Select "Channel Lock" using [**▲/▼**], then press [**OK**].
4. Select a Channel using [**▲/▼**], then press [**OK**].

Installation	
Channels	Channel Lock <input checked="" type="checkbox"/> 11.1 AAA
Clock	TV Ratings Lock <input type="checkbox"/> 11.2 BBB
Digital Audio Language	Movie Ratings Lock <input type="checkbox"/> 11.3 CCC
Child Lock	Canadian English Rating <input type="checkbox"/> 11.4 DDD
Change PIN	Canadian French Rating <input type="checkbox"/> 33.1 EEE
	<input type="checkbox"/> 33.2 FFF
	<input type="checkbox"/> 33.5 DDD

- ☒ indicates that the Channel is Locked.
- ☐ indicates that the Channel is Not Locked.
- Repeat Step 4 until you Select All the Channels you wish to Lock.

Continued on next page.

Setting TV and Movie Ratings

Movie Ratings Lock is the Rating System created by MPAA. TV Ratings Lock has controlled access to individual Programs based on their Age and Content Ratings.

3. Select “TV Ratings Lock” or “Movie Ratings Lock” using [▲/▼], then press [OK].
4. Select a Rating using [▲/▼], then press [OK].
- ☒ indicates that Contents on this Rating are Restricted.
 - ☒ indicates that the Rating is Manually modified in the Sub Ratings and the Contents on this Rating are Restricted. (For TV Rating Lock only)
 - ☐ indicates that Contents on this Rating are Not Restricted.
 - Repeat Step 4 until you Select All the Ratings you wish to Restrict.

TV Ratings

Installation

Channel Lock

TV Ratings Lock

Movie Ratings Lock

Canadian English Rating

Canadian French Rating

☐ All

☒ None

☐ TV-Y

☐ TV-Y7

☐ TV-G

☐ TV-PG

☐ TV-14

☐ TV-MA

Movie Ratings

Installation

Channels

Clock

Digital Audio Language

Child Lock

Change PIN

Channel Lock

TV Ratings Lock

Movie Ratings Lock

Canadian English Rating

Canadian French Rating

☐ All

☐ NR

☐ G

☐ PG

☐ PG-13

☐ R

☐ NC-17

☐ X

US Movie Rating	USTV Rating	Description
All		All Contents on this Rating Including No Rating are Locked
NR	None	No Rating
—	TV-Y	Appropriate for All Children
—	TV-Y7	Appropriate for Children 7 and older
G	TV-G	All Ages admitted
PG	TV-PG	Parental Guidance suggested
PG-13	—	Unsuitable for Children under 13
—	TV-14	Unsuitable for Children under 14
R	—	Children under 17 require Accompanying Parent or Adult Guardian
NC-17	—	No One 17 and under admitted
X	TV-MA	Mature Audience Only

To Set the Sub Ratings
For TV Rating Lock, you can further Set the Sub Ratings to block Specific elements in the Programming. To Set the Sub Ratings, follow the Step below.

- Select a Sub Rating, then press [OK].
- Repeat this Procedure until All the Desired Ratings are ☒

Installation

Channel Lock

TV Ratings Lock

Movie Ratings Lock

Canadian English Rating

Canadian French Rating

☐ All

☒ None

☐ TV-Y

☐ TV-Y7

☐ TV-G

☐ TV-PG

☒ TV-14

☒ TV-MA

☒ Violence

☒ Sex

☒ Language

☒ Dialog

USTV Rating	Sub rating
TV-Y7	<ul style="list-style-type: none">Fantasy Violence
TV-PG	<ul style="list-style-type: none">ViolenceSex
TV-14	<ul style="list-style-type: none">LanguageDialog
TV-MA	<ul style="list-style-type: none">ViolenceSexLanguage

- Note(s)
- Blocked Sub Rating will appear beside the Main Rating Category in TV Ratings Menu.
 - If you Change a Main Rating to ☒ or ☐ it affects the Sub Rating as well.

Continued on next page.

Canadian English / Canadian French Ratings

You can select ratings for Canadian English / Canadian French broadcasting.

3. Select “Canadian English Rating” or “Canadian French Rating” using [▲/▼], then press [OK].
4. Select a Rating using [▲/▼], then press [OK].
 - ☒ indicates that Contents on this Rating are Restricted.
 - ☐ indicates that Contents on this Rating are Not Restricted.
 - Repeat Step 4 until you Select All the Ratings you wish to Restrict.

Canadian English Rating	Canadian French Rating	Description
All		All Contents on this Rating are Locked
E		Exempt Program
C	—	For All Children
C8+	—	For All Children over 8
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)

- When you Set the **All** to ☐. All Ratings return to ☐ Automatically.
- Region Ratings Lock** will be available when the Unit receives a Digital Broadcast using the New Rating System.
- The Canadian Rating Systems on this Unit are based on CEA-766-A and CRTC policy.

Changing PIN Code

You can set your own PIN Code.
(The default PIN Code is 0000.)

1. Press [▲(home)], then select “Installation”
◆ “Change PIN” using [▲/▼/◀/▶], then press [OK].
 - PIN Code Entry Window will appear.
2. Enter the current 4-digit PIN Code number using [the Number buttons].
 - You will be asked to Enter a new PIN Code.
 - If you have Not Set Up your PIN Code yet, enter [0][0][0][0].
3. Enter the 4-digit number for New PIN Code using [the Number buttons].
 - For Confirmation, you will be asked to enter the New PIN Code again.
 - Press [▲(home)] Repeatedly to Exit.

Note(s)

- The PIN Code for confirmation has to be an exact match to the PIN Code that you entered earlier.
- If you forgot your PIN Code, enter [0][7][1][1] to Reset the PIN Code.

6. RECORDING

Information on Recording

Before you make a Recording, read the following Information.

Recording Media

Internal HDD and External USB-HDD (not supplied). You can Only Record Digital TV programs (Video and Audio).

Recording Mode

- The Recording Time is only an estimate. The Actual Recording Time may differ with the remaining time displayed on the TV screen.

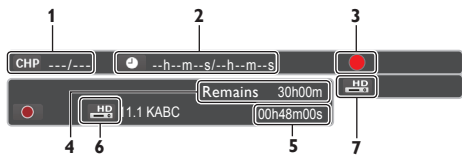
Note(s)

- This Unit Cannot Record to HDD and External USB-HDD at the Same Time.
- This Unit Cannot Record Analog Broadcasting. (Analog Broadcasting via Cable Box is also not available.)
- This Unit Cannot Store the content streamed from the VOD Services.

Maximum Recordable Titles

	Titles
HDD	2,000
USB-HDD	2,000

Guide to Display



- Current Chapter / Total Chapter Numbers of a Title in Resume On Stop mode**
 - "---" will be Displayed when there is No Resume Point.
- Elapsed Time / Total Duration of a Title in Resume On Stop mode**
- Unit's Status**
- Remaining Time for Recording (approx.)**
- Recording Time**
- Recording Mode (HDD / USB-HDD)**
- Source Currently Selected**

About HDD (Internal HDD)

HDD is a special device which has high Recording Density and is suited for Long-time Recording or High-speed Cueing but by contrast, has many factors which can cause breakage. Use HDD on the assumption that you should Dub the Recorded Programs to a USB-HDD to protect your precious Videos.

HDD is a Temporary Storage Device:

HDD is not a Permanent Storage Device of the Recorded contents. Be sure to use it as a Temporary Storage Device until you watch the Programs once, Edit them, or Dub them to a USB-HDD.

Be sure to Dub (back up) Data Promptly if you find Abnormalities in the HDD:

If there is mechanical trouble with the HDD, grinding or other sounds may be heard or block noise may appear on the image. If you continue to use as it is, deterioration may continue and eventually the HDD may not be usable at all. If you notice these symptoms of a failing HDD, promptly dub the data to a USB-HDD. When an HDD fails, recovery of recorded content (data) may be impossible.

About the remaining capacity of HDD recording time:

The On-screen indication of the possible Recording Time left on HDD / USB-HDD may differ from the actual Recordable Time as this unit employs the Variable Bit Rate Encoding system which varies the Recording (storage) amount of Data in conformity with the amount of information on the Video. Before Recording to the HDD, ensure there is sufficient space on the HDD by Deleting Unnecessary Titles in advance.

About USB-HDD (External HDD)

- The registered USB-HDD can be used in the same manner as the Internal HDD.
- Recording / Editing on Write Protected USB-HDD is Not possible.

Continued on next page.

Before Recording

Setting for Auto Chapter

Set the Chapter Interval. When Recording, Chapters will Automatically be created based on this Setting. This Setting applies to Normal Recording, One-Touch Recording and Timer Recording.

1. Press [**⬆️ (home)**], then select “Setup” ➡ “Playback / Recording” ➡ “Auto Chapter” using [**⬆️ / ⬆️ / ⬆️ / ⬆️**], then press [**OK**].
2. Select a Chapter interval using [**⬆️ / ⬆️**], then press [**OK**].

Setup		
Video / Audio	Variable Skip	Off
Display	Variable Replay	5 Minutes
HDMI	Auto Chapter	10 Minutes
Playback / Recording		15 Minutes
Network		20 Minutes
Software		30 Minutes
Other		60 Minutes

- Press [**⬆️ (home)**] Repeatedly to Exit.

Basic Recording & One-Touch Timer Recording

Follow the Steps below to Record a TV program.

ⓘ Note(s)

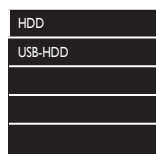
- When Playback of a Recorded Program is Blocked by the Child Lock, a message appears on the TV Screen. In such case, check the Child Lock (V-Chip) Setting. (Please refer to page 29 for more details.)

If you wish to make a Recording to a USB-HDD, you need to Register a USB-HDD with this Unit beforehand. (Refer to 'USB-HDD Connection' on pages 55–57.)

1. Select a Channel to Record using [**CH +/-**] or [**the Number buttons**].



2. Press [**MENU**], then select “HDD Source”, then press [**OK**].
3. Select a Recording Media using [**⬆️ / ⬆️**], then press [**OK**].



4. Press [**REC**] to Start Recording.
 “●” will be Displayed for 2 seconds.
 Press [**⏸ (Pause)**] to Pause Recording.
 Press [**⏸ (Pause)**] again to Restart Recording.

ⓘ Note(s)

- While HDD / USB-HDD is in Playback the [**REC**] is Not Available. Stop the Playback before using Basic Recording or One-Touch Timer Recording.

Continued on next page.

5. Press [■ (Stop)] to Stop Recording.

- Confirmation Message will appear. (Recording will be continued.) Select "Yes" to Stop Recording. Select "No" to Continue Recording.
- You can also Stop Recording by pressing [■ (Stop)] button Twice at Step 5.

Note(s)

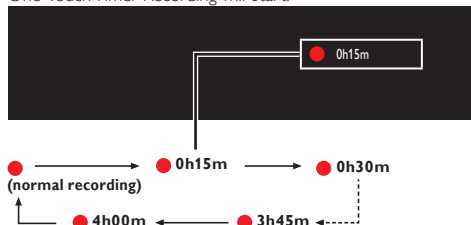
- When you press [REC], Recording starts immediately and continues until the HDD or USB-HDD is full, a program is recorded up to 8 hours or you Stop the Recording.
- When the Unit's Clock has not been Set yet and the Auto Clock Setting is Set to "Off", the Unit will enter "Clock Setting" or if the Auto Clock Setting is Set to "On", the Unit will enter the Clock Data Search screen to Set the Date and Time for this Unit.
- If Playback and Recording are in Progress at the Same Time and you press [■ (Stop)], Playback will Stop.
- During the Recording, it is Prohibited to Change the Channel.
- [REC] button is not available when Net TV is running. (Basic Recording or Changing the Recording Length will not be available.)
- When Recording and Dubbing are in progress at the Same Time and you press [■ (Stop)], the Dubbing Cancel Confirmation Window will Appear.

To Set One-Touch Timer Recording (OTR)...

This is a simple way to Set the Recording Time in blocks of 15 Minutes.

Press [REC] Repeatedly until the desired Recording Time (15 minutes to 4 hours) appears on the TV Screen.

One-Touch Timer Recording will Start.



To change the Recording Length during the One-Touch Timer Recording:

Press [REC] repeatedly until the Desired Length appears.

To Stop Recording the One-Touch Timer Recording within the specified Time:

- Press [■ (Stop)]. Confirmation Message will appear. Select "Yes" to Stop Recording.

When the recording is completed, the Unit will ask you whether to Turn the Unit into Standby mode except under Conditions listed below.

- If a Timer Recording is Programmed to Start in 5 Minutes.
- During Playback/Dubbing of HDD or USB-HDD.
- While Displaying Menus or Information on the Screen.
- While Net TV is Running.
- The Unit will Automatically go into the Standby Mode if you select "Yes" or if you do not reply in 1 Minute.

Notes for One-Touch Timer Recording

- Press [DISPLAY] to see the remaining Recording time.
- You Cannot use the Pause Function during One-Touch Timer Recording.

Continued on next page.

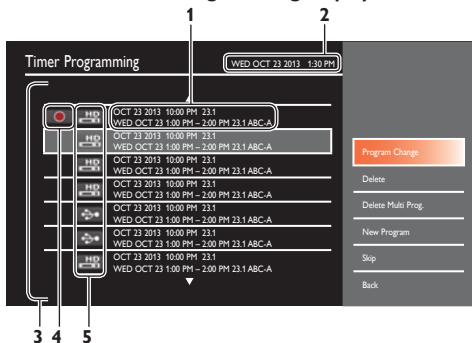
Timer Recording

You can Program the Unit to Record up to 100 Programs within a month in advance. Daily or Weekly Program Recordings are also available.

Before Recording, make sure to...

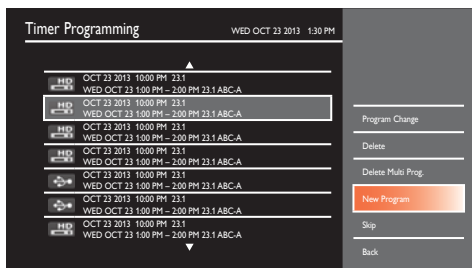
- Set the Clock before Setting a Timer Programming.
- Register a USB-HDD with this Unit beforehand if you are Recording to a USB-HDD. (Refer to 'USB-HDD Connection' on pages 55–57.)

Guide to Timer Programming Display

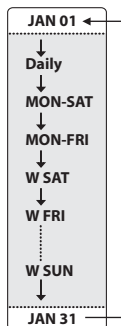
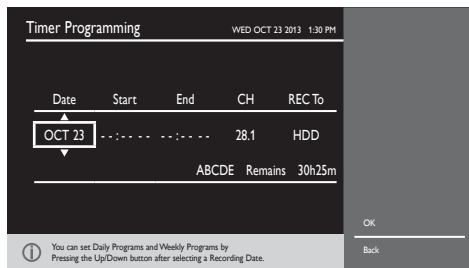


1. Title of a Timer Program (Contains Title Name, Date, Time, Channel and Broadcast Station.)
2. Current Date and Time
3. Timer Program List
4. Recording Icon (Appears when Recording is in Progress)
5. Recording Media (“HDD”) or (“USB-HDD”))

1. Press [**▲** (home)], then select “Timer Programming” using [**▲/▼/◀/▶**] and press [**OK**].
2. Press [**▶** (Cursor)] to move to the Program Menu, then select “New Program” using [**▲/▼**], and press [**OK**].
 - If a Timer Program does not exist, the cursor will be on “New Program”.



3. Enter the Date using [**▲/▼**], then press [**▶** (Cursor)].



When pressing [**▼**] at the Current Date, the Date will change as follows.

e.g.) January 1st

4. Enter the Start and End time using [**▲/▼/◀/▶**], then press [**▶** (Cursor)].
 - You Cannot make a Timer Recording program that exceeds 8 hours.
5. Select a Channel to Record using [**▲/▼**], then press [**▶** (Cursor)].
6. Select the Recording Media (“HDD” or “USB-HDD”), then press [**▶** (Cursor)].

Continued on next page.

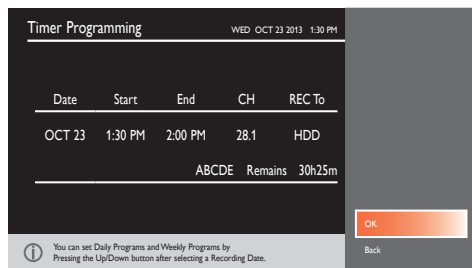
Alternate recording (USB-HDD only)

In the following cases, the Unit will Detect and Automatically Record to the HDD even when USB-HDD is selected as the Recording Media.

- If USB-HDD is Not Connected.
- If the USB-HDD does Not have enough Space to complete the Recording.
- The Unit Cannot Record to the Connected USB-HDD (USB-HDD is Unregistered).

This Feature is Only available for Timer Recording and not available for One-Touch Timer Recording.

- When all items are entered, select “OK”, then press **[OK]** again.



Your Program Setting is now stored.

- To Set another Program, Repeat Step 2 to 7.
- Press **[▲(home)]** Repeatedly to Exit.
- When 2 or more programs are overlapped, “Timer program overlapped.Timer program may not be recorded” appears, and the overlapped program will be displayed in Blue with a Icon on the left side.
- To correct the Timer Program, refer to ‘Checking, Cancelling or Correcting the Timer Programming information’ on this page.

Note(s)

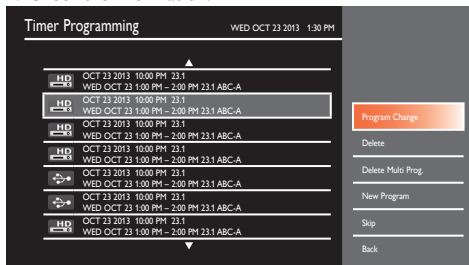
- If you have Not Set the Clock yet: Entry screen for the Clock Setting will appear instead of the Timer Programming list at Step 1. Continue with the Steps in ‘Clock Setting (Manual)’ or ‘Clock Setting (Auto)’ on page 28 before Setting a Timer Programming.
- Use **[◀/▶]** to Move the Cursor to the left and the right in the Entry Screen for the Timer Programming.
- You Cannot make a Timer Recording program that exceeds 8 hours.

To Stop the Timer Recording in Progress

- Press **[■(Stop)]** on the Remote Control.
- Confirmation Message will appear. Select “Yes”, then press **[OK]**.

Checking, Deleting or Correcting the Timer Programming information

- Press **[▲(home)]**, then select “Timer Programming” using **[▲/▼/◀/▶]** and press **[OK]**.
- Check the information.



3. A: To Delete the Timer Program:

- Use **[▲/▼]** to Select the Program you wish to Delete, then press **[▶(Cursor)]**.
- Use **[▲/▼]** to Select “Delete”, then press **[OK]**.
 - Confirmation Message will appear.
- Use **[◀/▶]** to Select “Yes”, then press **[OK]**.

3. B: To Delete Multiple Timer programs:

- Press **[▶(Cursor)]** to Move to Sub Menu then select “Delete Multi Prog.” using **[▲/▼]**, then press **[OK]**.
- Select the Program you wish to Delete using **[▲/▼]**, then press **[OK]**.
 - Check Icon will appear for the Timer Program selected for Deletion.
- Repeat Step 2 until you Select All the Programs you wish to Delete.
 - To Remove the Check Icon for Deletion, move the Cursor to the Selected Program and press **[OK]**.
- Press **[▶(Cursor)]** to Select “OK” on the Screen, then press **[OK]**.
 - Confirmation Message will appear.
- Select “Yes” using **[◀/▶]**, then press **[OK]**.

3. C: To Correct the Timer Program:

- Select the program you wish to Correct using **[▲/▼]**, then press **[▶(Cursor)]**.
- Select “Program Change” using **[▲/▼]**, then press **[OK]**.
- Correct the Timer Program Information using **[▲/▼/◀/▶]**, then press **[OK]**.

Note(s)

- With the Timer Recording in Progress (which is shown in Red in the Timer Program list), you can only Edit the End Time.

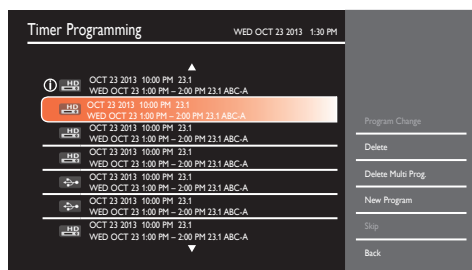
Continued on next page.

Skip the Timer Recording Period

You can Deactivate the Timer Recording Period (Daily, MON-SAT, MON-FRI or Weekly) Temporarily.

1. Press [**▲** (home)], then Select "Timer Programming" using [**▲** / **▼** / **◀** / **▶**], then press [**OK**].
2. Select the Periodical Timer Recording Program you wish to Skip using [**▲** / **▼**], then press [**▶** (Cursor)].
3. Select "Skip" using [**▲** / **▼**], then press [**OK**] to Activate the Setting.
 - "Skip" will Appear on the Left side of the Timer Program, if "Skip" is Activated.
 - The Setting will go back to Off after the Program is Skipped Once.

If the Timer Program Did Not Complete Correctly, ① appears in the Timer Programming List.



- A Program that Did Not Complete Correctly is Grayed in the Timer Programming List.
- To Check the Timer Programming Error Message, select the Program that Did Not Complete Correctly and press [**OK**].

Hints for Timer Recording

- If there is a Power Failure or this Unit has been Unplugged the Clock Setting will be lost. The Timer programming(s) will be kept. (If Manual Clock has been selected then you must set the Clock in order for the saved Timer Recordings to be made.)
- When Recording to a USB-HDD, if the USB-HDD is Unregistered, the unit will perform Alternate Recording to the HDD (refer to page 36).
- When a Timer Recording is Completed, the Unit will ask you whether to Turn the Unit into Standby mode if there is No Timer Recording which Starts within 5 Minutes, except under Conditions listed below.
 - During Playback/Dubbing of HDD or USB-HDD.
 - While Displaying Menus or Information on the Screen.
 The Unit will be Turned into Standby mode Automatically if you Select "Yes" or if you Do Not Reply in 1 minute.
- When the Programmed Starting and Ending Time are earlier than the Current Time, the Setting will Not Be Accepted and the Date Field will be Highlighted.
- If the Starting Time is Earlier and the Ending Time is Later than the Current Time, the Recording will Start Right After you press [**OK**] at Step 7 on page 36.
- It is Prohibited to Turn the Unit into Standby mode from 4 Minutes before the Programmed Starting Time.
- It is Prohibited to Change the Channel from 90 seconds before the Programmed Starting Time.
- [**REC**] Does Not Work from 2 Minutes before the Programmed Starting Time. If it comes to 2 Minutes before the Starting Time during Basic or One-Touch Timer Recording, the Recording in Progress will be Stopped.

ⓘ Note(s)

- During Basic Recording / One-Touch Timer Recording / Timer Recording, if you set a Timer Recording that Starts immediately, a message will appear on the Screen asking whether you wish to Stop the Recording in Progress and Start the Timer Recording. Choose "Yes" if you wish to Start the Timer Recording immediately.
- Basic Recording and One-Touch Timer Recording will Stop when Timer Recording starts.
- Recording will Temporarily Stop if Scrambled Signal is Received.
- When the Daylight Saving Time Setting is ON, a Timer Program that has Start and End Time between 2:00 AM and 2:59 AM will Not Be Recorded on the Second Sunday in March.

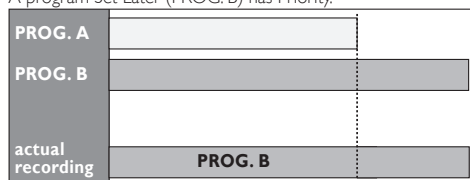
Continued on next page.

The Priority of Overlapped Settings

- A Timer Program which was Set after a Previous Program will be given Priority over a Previous Program when these Timer Programs Overlap.
- When Timer Programs Overlap, the Timer Recording in Progress will end 15 seconds before the Next Timer Recording Starts.
- When 2 or more Timer Programs Overlap, the Program with a Later Start Time will be given Priority.
- A Timer Recording of Lower Priority will be Cancelled or Start from the Middle.
- Check the Overlapped Timer Programs and Change the Priority if necessary.

When the Starting Time is the same:

A program Set Later (PROG. B) has Priority.

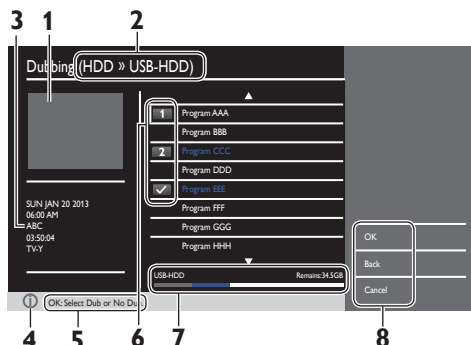


Dubbing

Information on Dubbing

You can Dub the Contents of the HDD to USB-HDD or vice versa.

Guide to Dubbing List Display



1. Thumbnail

2. Dubbing Direction

3. Title information

Date/Time of Recording, Broadcast Station, duration of the Title and Rating (If available)

4. Information Icon

5. Operation Message

6. Icons

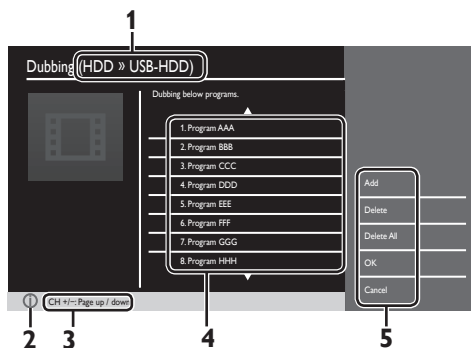
☐ 1 Indicating Titles Selected for Dubbing.

☒ Indicating Titles Registered for Dubbing.

7. Remaining Recordable Space

8. Sub Menu

Guide to Dubbing Menu Display



1. Dubbing Direction

2. Information Icon

3. Operation Message

4. Dubbing Title List

5. Sub Menu

Continued on next page.

Recording Mode for Dubbing

This Unit is Compatible with the High Speed Dubbing from HDD to USB-HDD or USB-HDD to HDD.

- Duration of High Speed Dubbing will vary depending on the Title Amount.
- High Speed Dubbing is Not available when;
 - the Number of Dubbing Title Exceeds 36 Titles.
 - there is Not Enough Space in the Dubbing destination device.

Selected Title Dubbing

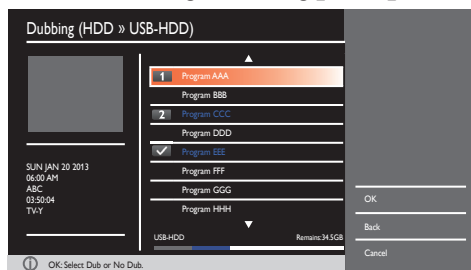
■ Preparing for Dubbing (HDD to USB-HDD or USB-HDD to HDD):

- Register a USB-HDD to this Unit. (Refer to 'USB-HDD Connection' on pages 55–56.)

1. Press [**⬆** (home)].
2. Select “Dubbing” using [**▲**/**▼**/**◀**/**▶**], then press [**OK**].
3. **HDD to USB-HDD**
Select “HDD » USB-HDD” using [**▲**/**▼**], then press [**OK**].
USB-HDD to HDD
Select “USB-HDD » HDD” using [**▲**/**▼**], then press [**OK**].
e.g.) HDD » USB-HDD



4. Select Dubbing Titles using [**▲**/**▼**].



Continued on next page.

5. Press **[▶ (Cursor)]** to Move the Cursor to the Sub Menu and select **“OK”**.

The Titles will be registered in the Dubbing List.

If you need to Add or Delete a Title before you proceed to the next step, follow the Procedure below.

■ To Add a Title:

1. Select **“Add”**.
2. Select All the Titles to be Added using **[▲/▼]**, then press **[▶ (Cursor)]** to select **“OK”** in the Sub Menu.
The Titles are now Registered in the Dubbing List.
 - A Title already Registered is shown with a Check mark.

■ To Delete a Title:

1. Select **“Delete”**.
2. Select a Title to Delete using **[▲/▼]**, then press **[OK]**.
3. Confirmation Message will appear. Select **“Yes”**.

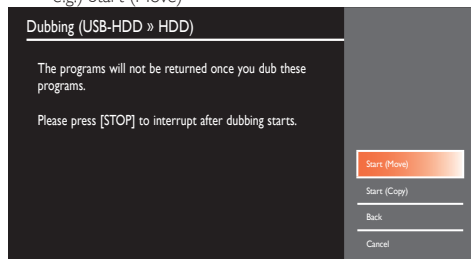
■ To Delete All the Titles in the Dubbing List:

1. Select **“Delete All”**.
2. Confirmation Message will appear. Select **“Yes”**.

6. Select **“OK”** to Set the Titles to be Dubbed.
7. Select whether you wish to **“Move”** or **“Copy”** a Title from the Dubbing Source when Dubbing Starts.

- If you wish to Delete a Title from the Dubbing Source, select **“Start (Move)”**.
- If you do not wish to Delete Title from the Dubbing Source, select **“Start (Copy)”**.

e.g.) Start (Move)



8. Dubbing will Start.

- It may take a while to prepare for the Dubbing.

■ To Stop the Dubbing in Progress:

Press **[■ (Stop)]**. Confirmation Message will Appear.
Select **“Yes”** or press **[■ (Stop)]** again to Stop Dubbing.

7. PLAYBACK

Information on Playback

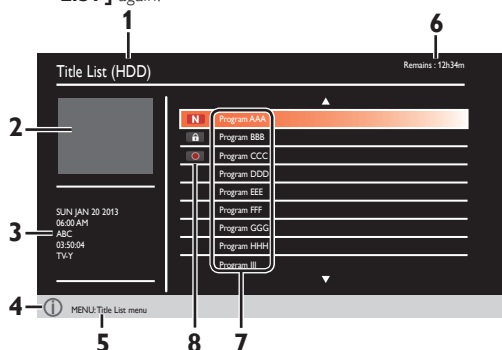
Guide to a Title List

Title List allows you to check the Recorded Titles easily. You can choose a Title to Play back from this List and easily Edit the Titles as you prefer.

To call up the Title List Screen

Press **[TITLE LIST]**.

- You can also call up the Title List by pressing **[↑(home)]**, then selecting "Title List".
- To Exit the Title List, press **[BACK]** or press **[TITLE LIST]** again.



1. Selected Media

To Switch between "HDD" and "USB-HDD" Mode

- Press **[MENU]**.
- Select "Source (HDD)" or "Source (USB-HDD)" using **[▲/▼]**, then press **[OK]**.

2. Thumbnail

Highlighted Title will be Played Back with Sound.

3. Title information

Date/Time of Recording, Broadcast Station, duration of the Title and Rating (If available)

4. Information Icon

5. Operation Message

6. Remaining Time of the Media (approx.)

7. Title Name

8. Icons

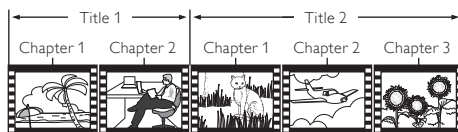
: Indicating the Title currently being Recorded.

: Indicating the Title is Protected.

: Indicating that Title has not been Played.

Hint for HDD / USB-HDD Playback

With each HDD / USB-HDD Recording, a Separate Title will be created. Titles may be further Subdivided into Chapters.



Resume Point

You can Play back from where you last Stopped.

- The Resume Point will be Saved by pressing **[■(Stop)]** during Playback.
- To Remove the Resume Point, press **[■(Stop)]** again in Stop Mode.

Pressing **[▶(Play)]**, without calling up the "Title List" screen, will Resume Playback from the Resume Point of the Title from where you last Stopped.

You can select "Play from Start" / "Resume Playback" in the Sub Menu by pressing **[MENU]** while Title List screen is Displayed

- You can Set a Resume Point for Every Title.

Continued on next page.

Basic Playback

Before starting Playback, make sure that your desired Source Device is Selected.

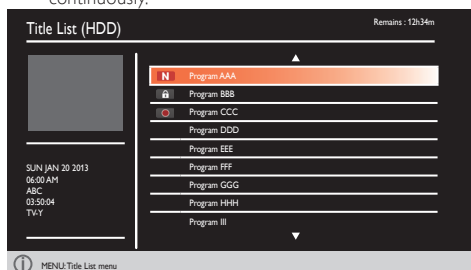
- Refer to 'Switching between HDD Mode / USB-HDD Mode' on page 25 for Changing device mode.

Direct Playback

1. Press [**▶ (Play)**] to Start Playback.
2. Press [**■ (Stop)**] Once to Stop Playback temporarily.

Playback from the Title List

1. Press [**TITLE LIST**] to call up the Title List.
 - To Exit the Title List, press [**BACK**].
2. Select a desired Title using [**▲ / ▼**] then press [**OK**].
 - Press and Hold [**▲ / ▼**] to Move Back and Forth continuously.



3. Press [**■ (Stop)**] once to Stop Playback temporarily.

Note(s)

- You can also Start Playback by pressing [**▶ (Play)**] instead of [**OK**] at Step 2.

Pause

1. During Playback, press [**⏸ (Pause)**].
 - Playback will be Paused.
2. Press [**▶ (Play)**] or [**⏸ (Pause)**] to return to Normal Playback.

Special Playback

Fast Forward / Fast Reverse Playback

1. During Playback, press [**⏩ (Forward)**] or [**⏮ (Reverse)**].
 - When you press [**⏩ (Forward)**] Once, the Unit will Play back in a slightly Faster Speed while keeping the Sound Output.
 - Every time you press [**⏩ (Forward)**] or [**⏮ (Reverse)**], the Playback Speed will be changed.
 - Fast Forward or Fast Reverse Playback across Titles is Not Possible.
2. Press [**▶ (Play)**] to Return to the normal Playback.

Variable Skip / Variable Replay

During Playback, you can Skip Forward or Backward by the amount of Time you set in the "Playback / Recording" Menu. To Set the Time amount, refer to 'Setups' on page 65, then 'Playback / Recording' and 'Variable Skip / Replay' on page 70.

During Playback, press [SKIP**] if you wish to Skip Forward. Press [**REPLAY**] if you wish to Skip Backward. You can skip continuously up to 10 Times.**

Chasing Playback during Recording and Simultaneous Playback and Recording

You can continue Recording a Program while Playing back another Title.

You can Play back a Title being Recorded from the Beginning while the Recording Continues.

1. During Recording, press [**TITLE LIST**].
2. Select a Title you wish to Play back, then press [**▶ (Play)**].
 - Chasing Playback will Start.
3. Press [**■ (Stop)**] ONCE to Stop the Playback.
 - If you Press [**■ (Stop)**] Twice, it will Stop the Recording.
 - Confirmation Message will appear. (Recording will be Continued.)
 - Select "Yes" to Stop Recording. Select "No" to Continue Recording.

Note(s)

When you Play back a Title being Recorded.

- You can also use the Special Playback Functions such as [**⏮ (Reverse)**], [**⏩ (Forward)**], etc.
- You can No Longer Forward the Playback when it comes to a few seconds before the Current Recording Point.

Chapter Skip

1. During Playback, press [**⏮ (Skip)**] to move from the Current Chapter to the Next Chapter.
The Chapter will Move Forward One at a Time.

To Go Back to the Beginning of the Current Chapter; press [**⏮ (Skip)**].

- Press Repeatedly to Go to the Previous Chapter. The Chapter will move Backward One at a Time.

Note(s)

- This Function is Only available within the Same Title.

Continued on next page.

Selecting Audio/Video Format

You can Select the Format of Video and Audio as you prefer depending on the Contents of the Title you are Playing back.

Switching Audio Languages

You can Switch the Audio Language while Playing back a Title Recorded with 2 or more Audio Languages.

1. Press **[MENU]** during Playback.
 - Sub Menu window will appear.
2. Select "Audio Language" using [**▲**/**▼**], then press **[OK]**.
 - Available Languages will be Displayed.
3. Select a Language using [**▲**/**▼**], then press **[OK]**.

Note(s)

- Available Languages will vary on the Title.
- "Audio Language" is not available (Not Displayed) if there is only One Audio Language.

Switching Closed Caption

You can turn Closed Caption On or Off while Playing back a Title with Closed Caption Data.

1. Press **[MENU]** during Playback.
 - Sub Menu window will appear.
2. Select "Closed Caption" using [**▲**/**▼**], then press **[OK]**.
3. Select "Off" or "On" using [**▲**/**▼**], then press **[OK]**.

When you change this Setting, "Closed Caption" Setting in the Setup Menu will also be Changed.

Reducing Block Noise

This Function Reduces Noise in the Playback Picture.

1. Press **[MENU]** during Playback.
 - Sub Menu window will appear.
2. Select "Noise Reduction" using [**▲**/**▼**], then press **[OK]**.
3. Select the desired Setting using [**▲**/**▼**], then press **[OK]**.

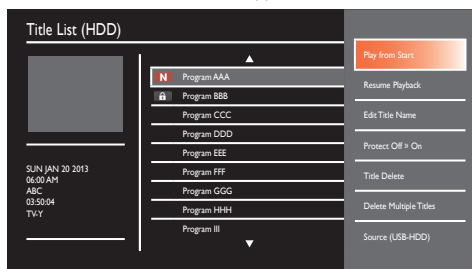
When you Change this Setting, the "Noise Reduction" Setting in the Setup Menu will also be Changed.

8. EDITING

Deleting a Title

You can Delete a Title which you do not need anymore. Please be advised that the Title once Deleted cannot be brought back.

1. Press **[TITLE LIST]**.
 - Title List will appear.
2. Select the desired Title to Delete using **[▲/▼]**, then press **[MENU]**.
 - Sub Menu window will appear.

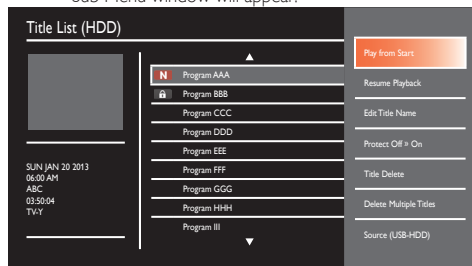


3. Select “Title Delete” using **[▲/▼]**, then press **[OK]**.
 - Confirmation Message will appear.
4. Select “Yes” using **[◀/▶]**, then press **[OK]**.

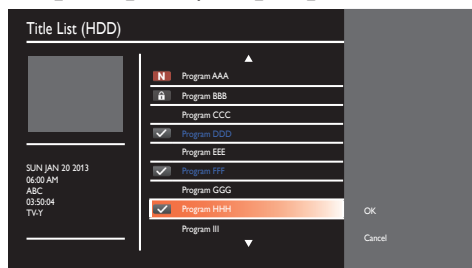
Deleting Multiple Titles

You can Delete Titles which you do not need anymore. Please be advised that the Titles once Deleted cannot be brought back.

1. Press **[TITLE LIST]**.
 - Title List will appear.
2. Press **[MENU]**.
 - Sub Menu window will appear.



3. Select “Delete Multiple Titles” using **[▲/▼]**, then press **[OK]**.
4. Select the Title you wish to Delete using **[▲/▼]**, then press **[OK]**.



- ☒ will appear indicating the Title is marked for Deletion.
5. Repeat Step 4 until you Select All the Titles you wish to Delete.

To Remove the ☒ from the Title:
Select the desired Title, then press **[OK]**.
 6. Select “OK” using **[▶ (Cursor)]**, then press **[OK]**.
 - Confirmation Message will appear.
 7. Select “Yes” using **[◀/▶]**, then press **[OK]**.

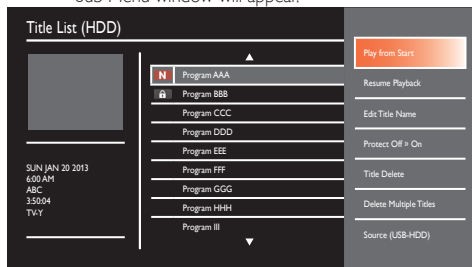
Note(s)

- The Remaining Time will Increase when you Delete a Title.
- You Cannot Delete a Recording or Protected Title.
- You Cannot Delete Titles on both HDD and USB-HDD at the Same Time.

Continued on next page.

Renaming a Title

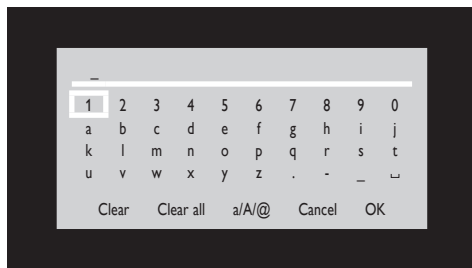
1. Press **[TITLE LIST]**.
 - Title List will appear.
2. Select the desired Title to Rename using **[▲/▼]**, then press **[MENU]**.
 - Sub Menu window will appear:



3. Select “Edit Title Name” using **[▲/▼]**, then press **[OK]**.
 - The On screen Keyboard will appear:
4. To enter a Title Name, follow the steps on ‘Guide to the On Screen Keyboard’ below.
 - You can Enter up to 60 letters.
5. Select “OK” using **[▲/▼/◀/▶]**, then press **[OK]**.
 - Confirmation Message will appear:
6. Select “Yes” using **[◀/▶]**, then press **[OK]**.

■ Guide to the On Screen Keyboard

1. Use **[▲/▼/◀/▶]** to select a desired Character, then press **[OK]**



- To Change the Character Set, select “a/A/@”, then press **[OK]**
 - To Delete Letters, select “Clear”, then press **[OK]**
 - To Delete All Letters, select “Clear all”, then press **[OK]**
2. When you finish Entering Letters and Characters, select “OK” using **[▲/▼/◀/▶]**, then press **[OK]**.
 - Confirmation Message will appear:
 3. Select “Yes” using **[◀/▶]**, then press **[OK]**.

Protecting a Title

You can protect a Title in order to prevent Accidental Editing.

1. Press **[TITLE LIST]**.
 - Title List will appear:
2. Select the desired Title to Protect using **[▲/▼]**, then press **[MENU]**.
 - Sub Menu window will appear:
3. Select “Protect Off » On” using **[▲/▼]**, then press **[OK]**.
 - Confirmation Message will appear:
4. Select “Yes” using **[◀/▶]**, then press **[OK]**.
 - The Protected Title will be marked with **[🔒]** Icon.

■ To Unprotect the Title:

- Select “Protect On » Off” at step 3.
- **[🔒]** will disappear.

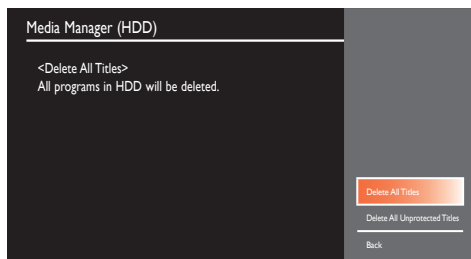
Continued on next page.

Media Management

Deleting All Recording Data on the HDD / USB-HDD

Recording Data Deleted due to Initialization cannot be undone. Make sure it is the correct Media to Initialize.

1. Press [**⬆** (home)].
 - Home Menu will appear.
2. Select “Media Manager” using [**▲/▼/◀/▶**], then press [**OK**].
3. Select “HDD Menu” or “USB-HDD Menu” using [**▲/▼**], then press [**OK**].
4. Select “Delete All Titles” or “Delete All Unprotected Titles” using [**▲/▼**], then press [**OK**].
 - Select “Delete All Unprotected Titles” to Delete Only Unprotected Titles.
 - Select “Delete All Titles” to Delete All Titles including Protected Titles.
 - Confirmation Message will appear.
 - Titles in a Protected USB-HDD cannot be Deleted.



5. Select “Yes” using [**◀/▶**], then press [**OK**].
 - This Unit will Switch to the TV Viewing mode.

Renaming USB-HDD

You can Rename a Registered USB-HDD. Please connect a desired USB-HDD in Advance.

1. Follow Step **1** to **2** in ‘Deleting All Recording Data on the HDD / USB-HDD’ on this page.
2. Select “USB-HDD Menu” using [**▲/▼**], then press [**OK**].
3. Select “Edit USB-HDD Name” using [**▲/▼**], then press [**OK**].
 - The On screen Keyboard will appear.
4. To enter a USB-HDD name, follow the Steps of ‘Guide to the On Screen Keyboard’ on page 45.
5. Select “OK” using [**▲/▼/◀/▶**], then press [**OK**].
 - Confirmation Message will appear.
6. Select “Yes” using [**◀/▶**], then press [**OK**].

ⓘ Note(s)

- A maximum of 20 characters of a Registered USB-HDD Name can be Displayed in the Title List.
- A Protected USB-HDD cannot be Renamed.

Protecting a USB-HDD

You can Protect a USB-HDD to prevent Accidental Editing. Please connect a desired USB-HDD in Advance.

1. Follow Step **1** to **2** in ‘Deleting All Recording Data on the HDD / USB-HDD’ on this page.
2. Select “USB-HDD Menu” using [**▲/▼**], then press [**OK**].
3. Select “USB-HDD Protect Off » On” using [**▲/▼**], then press [**OK**].
 - Confirmation Message will appear.
4. Select “Yes” using [**◀/▶**], then press [**OK**].

■ To Unprotect the USB HDD:

- Select “USB-HDD Protect On » Off” at Step **3**.

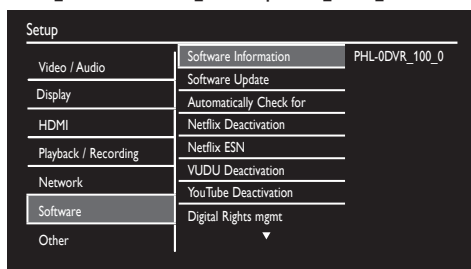
9. SOFTWARE

Software

Software Information

You can check the Software Version currently installed on this Unit.

1. Press [**⬆** (home)], then select "Setup" ➡ "Software" ➡ "Software Information", using [**⬆** / **⬇** / **⬅** / **➡**], then press [**OK**].



- Press [**⬆** (home)] Repeatedly to Exit.

Software Update

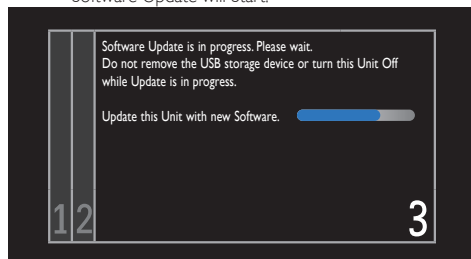
This unit lets you Update the Software yourself using a USB Memory Stick or via the Internet.

■ USB Memory Stick Update

Prepare a blank USB Memory Stick for Software Update. Access www.philips.com and Download the latest Version Software to a Blank USB Memory Stick using a PC by following the Directions described on the Website.

- Use a Blank USB Memory Stick, Download the Software on your PC and Write the Software in the Root Directory of the USB Memory Stick.
- For more details on how to Download the Software, please refer to the Website.

1. Press [**⬆** (home)], then select "Setup" ➡ "Software" ➡ "Software Update" ➡ "USB", using [**⬆** / **⬇** / **⬅** / **➡**], then press [**OK**].
 - The Root Directory of the USB Memory Stick will be displayed. Only Software Files with the Extension of ".upg" will appear in the List.
2. Select the Software using [**⬆** / **⬇**], then press [**OK**].
 - Confirmation Message will appear.
3. Select "Yes" using [**⬅** / **➡**], then press [**OK**].
 - Software Update will Start.



- Message will Appear upon Success.

4. Remove the USB Memory Stick and Restart this Unit.

! Caution

- Please Do Not Unplug the AC Power Cord, Disconnect the USB Memory Stick or press [**⏻** (Power-ON)] to Turn the unit into Standby mode while Performing a USB Memory Stick Update.

☰ Note(s)

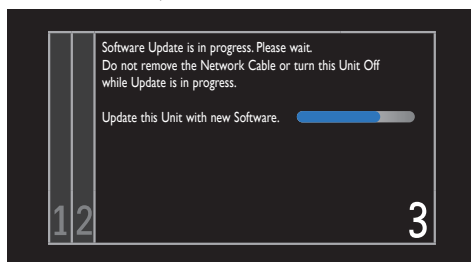
- Software Update Will Not Change any of the current Settings.
- After the Software Update, the Statement displayed on the Screen may not be the same between the Unit and User manual.

Continued on next page.

■ Network Update

You can Update the Software via the Internet. Be sure that you have completed the Network Configuration beforehand.

1. Press [**⬆** (home)], then select “Setup”
➡ “Software” ➡ “Software Update” ➡
“Network”, then press [**OK**].
 - Confirmation Message will appear.
2. Select “Yes” using [**◀/▶**], then press [**OK**].
 - If the latest Version of the Software is found, a Confirmation Message which Prompts you to Update will appear. If No Update is available, press [**OK**] to Finish.
3. Select “Yes” using [**◀/▶**], then press [**OK**].
 - Software Update will Start.



- Message will appear upon Success.

4. Restart this Unit.

! Caution

- Please Do Not Unplug the AC Power cord, LAN cable, Wireless Modem / Router or press [**⏻ (Power-ON)**] to Turn the unit into Standby mode while using “Network Update”.

≡ Note(s)

- In order to Update the Software via the Internet, you must Connect the Unit to the Internet and Set up necessary Settings.
- For the Network Setup, refer to ‘Connection to the Network’ on page 19.
- For the Network Connection, refer to ‘Network Settings’ on page 49.
- Some Network services require a newer Version of Software and automatically prompts you to Update.
- Software Update will Not Change any of the current Settings.

Automatically Check for Latest Software

You can set the Unit to automatically Check for the Latest Version of Software when Unit is connected to the Internet. If a Later Version is found on the Internet Server, you will be prompted to Update the Unit.

1. Press [**⬆** (home)], then select “Setup” ➡
“Software” ➡ “Automatically Check for”,
then press [**OK**].
2. Select “On” using [**▲/▼**], then press [**OK**].
 - Press [**⬆** (home)] Repeatedly to Exit.

10. NETWORK

This section describes the Procedures for Network Setup. By performing the Network Connection Setup, you can use the Network Features, such as Netflix,VUDU,YouTube™, CinemaNow and the Network Update function.

Network Settings

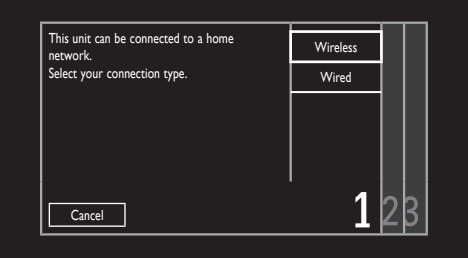
You can select either Wireless Connection or Wired Connection.

Wireless	If you have a Wireless Router, select "Wireless" to connect to the Internet.
Wired	If you connect this Unit to the Network using an Ethernet cable, select "Wired" to connect to the Internet.

There are 2 ways to Set up — "Network Settings Assistant" in a Wizard format and "Manual Network Settings".

Network Setting Assistant

- 1. Press [**↑** (home)], then select "Setup" ➡ "Network" ➡ "Network Settings Assistant" ➡ "Start Now", then press [**OK**].
 - Connecting Method Screen will appear:



For Wireless Connection

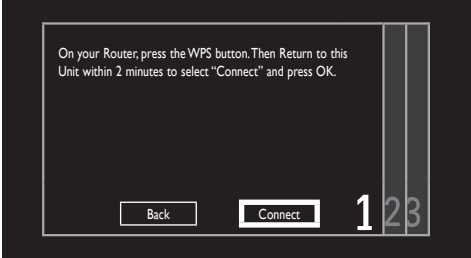
- 2. Select "Wireless" using [**▲/▼**], then press [**OK**].
 - You will be asked to select "Easy Connect", "Scan" or "Manual Entry". Select an adequate method according to your Wireless Router and Settings.

Easy Connect

Select this if your Wireless Router has a WPS button¹. It is the easiest way to set up a wireless connection. If it fails, try "Easy Connect" again².
¹ WPS (Wi-Fi Protected Setup) button may be called PBC (Push Button Configuration) button on your Wireless Router.
² If it continuously Fails, then refer to the Router's Manual for more details.

- 3. Select "Easy Connect" using [**▲/▼**], then press [**OK**].

- 4. Press the WPS button on your Wireless Router.
- 5. Return to this Unit within 2 minutes, select "Connect" using [**◀/▶**], then press [**OK**].

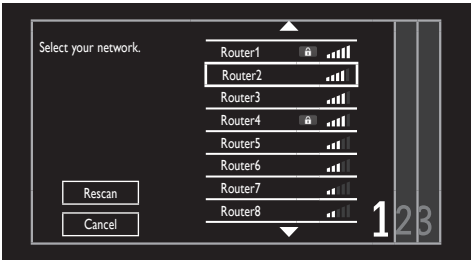


- Network Connection will automatically be established, then Connection Test will Start and the Test result will be Displayed. Refer to 'Connection Test' on page 55.
- 6. Press [**OK**] to Complete the Network Setup.
 - Press [**↑** (home)] Repeatedly to Exit.

Scan

This Method lets you select an SSID* from the SSID List automatically obtained by performing "Scan".
* SSID (Service Set Identifier) is a Wireless Network name which is used to identify your Wireless Router (Access Point) on the Network.

- 3. Select "Scan" using [**▲/▼**], then press [**OK**].
 - Access Points List will be displayed.

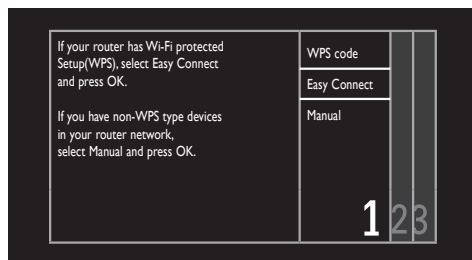


- appears next to the SSID (Access Point) that is Protected with Security.
- shows the Access Point's Signal Strength.

Continued on next page.

4. Select an Access Point to which you wish to Connect this Unit using [▲/▼], then press [OK].

- WPS Connection Method Screen will appear.



3 Connection Methods

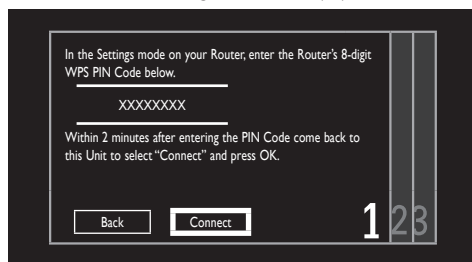
You can select "WPS code", "Easy Connect" or "Manual". Select an adequate Method according to your Wireless Router and Settings.

- If you Selected an Access Point which supports WPS, the WPS Connection Method screen will appear: Move on to 'WPS Code' below.
- If you Selected an Access Point which Does Not Support WPS and this Unit is able to recognize the Security Method, the WEP / WPA / WPA2 Key Entry Screen will appear: Move on to 'Manual' below.
- If you Selected an Access Point which Does Not Support WPS and is Not Protected, this Unit Automatically Establishes a Wireless Network and perform a Connection Test. Then the Test Result will be Displayed. Refer to 'Connection Test' on page 55.

WPS Code

This Method lets you Configure the Wireless Network using WPS Code method (also known as PIN Code method).

5. Select "WPS code" using [▲/▼], then press [OK].
- Confirm the 8-digit PIN Code displayed on screen.



6. Log on to your Wireless Router and enter the 8-digit PIN Code in it.

- For how to log on and set up your Wireless Router; please refer to its User Manual.

7. Return to this Unit within 2 minutes, select "Connect" using [◀/▶], then press [OK].

- Network Connection will Automatically be Established, then Connection Test will Start and the Test result will be Displayed. Refer to 'Connection Test' on page 55.

8. Press [OK] to Complete the Network Setup.

- Press [▲(home)] Repeatedly to Exit.

Easy Connect

Refer to 'Easy Connect' on page 49.

Manual

This Method lets you Configure the Wireless Network by entering the Security Key to the selected Access Point.

5. Select "Manual" using [▲/▼], then press [OK].

- WEP / WPA / WPA2 Key Entry Screen will appear.

6. Enter the Security Key using the On screen Keyboard.

- For details on how to use the On screen Keyboard, refer to 'Guide to the On Screen Keyboard' on page 45.

7. Select "OK" using [▲/▼/◀/▶], then press [OK].

- Confirmation Message will Appear.

8. Select "Yes" using [◀/▶], then press [OK].

- Connection Test will Start and the Test Result will be Displayed. Refer to 'Connection Test' on page 55.

9. Press [OK] to Complete the Network Setup.

- Press [▲(home)] Repeatedly to Exit.

Continued on next page.

Manual Entry

Select this if you wish to Configure the Wireless Network Settings manually by entering an SSID and the Security Key.

3. Select “Manual Entry” using [▲/▼], then press [OK].
 - SSID Entry Screen will appear.
4. Enter an SSID using the On screen Keyboard.
 - For details on how to use the On screen Keyboard, refer to ‘Guide to the On Screen Keyboard’ on page 45.
5. Select “OK” using [▲/▼/◀/▶], then press [OK].
 - Confirmation Message will appear.
6. Select “Yes” using [◀/▶], then press [OK].
 - Security Method Selection Screen will appear.
7. Select an Adequate Security Method using [▲/▼], then press [OK].
 - WEP / WPA / WPA2 Key Entry Screen will appear.
 - If you select “None” for a Security Method, Connection Test will Start and the Test result will be Displayed. Refer to ‘Connection Test’ on page 55.
8. Enter the Security Key using the On screen Keyboard.
 - For details on how to use the On screen Keyboard, refer to ‘Guide to the On Screen Keyboard’ on page 45.
9. Select “OK” using [▲/▼/◀/▶], then press [OK].
 - Confirmation Message will appear.
10. Select “Yes” using [◀/▶], then press [OK].
 - Connection Test will Start and the Test Result will be Displayed. Refer to ‘Connection Test’ on page 55.
11. Press [OK] to Complete the Network Setup.
 - Press [▲(home)] Repeatedly to Exit.

For Wired Connection

For Wired Connection, a Network Connection will Automatically be established.

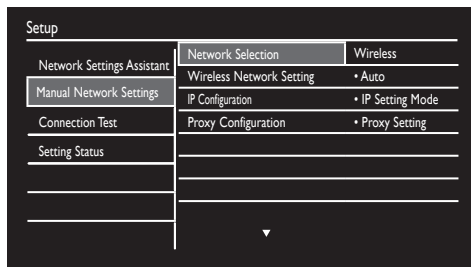
2. Select “Wired” using [▲/▼], then press [OK].
 - Network Connection will Automatically be Established, then Connection Test will Start and the Test result will be Displayed. Refer to ‘Connection Test’ on page 55.
3. Press [OK] to complete the Network Setup.
 - Press [▲(home)] Repeatedly to Exit.

Note(s)

- If the Connection Test Passes, you are ready to use Netflix, VUDU, YouTube™, CinemaNow and Network Update functions, using the Internet without making any additional Settings.
- If the Connection Test Fails, you may need to check your Router Settings and make sure the Physical Connection is Secure. If you need the MAC Address of this unit to complete your Router Settings, refer to ‘Network Settings’ on Page 49.
- When Connecting this Unit directly to a Modem for the first time or Connecting it to a Modem which was previously Connected to any other Network Device (e.g. a Router, PC, etc.), you may have to Power Cycle the Modem (unplug the Modem’s and/or Router’s AC plug from its AC Outlet for 30 Seconds and then Plug it Back in), this may Reset the Settings in the Modem. If you have a Telephone/Internet Modem with your Cable Service then you may have to use its Reset Button or Remove the Backup Battery to Reset this type of Modem.
- If “Internet” Failed on the Connection Test, this Unit is Not Connected to the Internet. In this case, you Cannot use the Network services, such as Netflix and Network Update Function. Please Confirm the Router Settings or contact your ISP (Internet Service Provider) for Troubleshooting Assistance.

Continued on next page.

1. Press [**⬆️ (home)**], then select "Setup" ➡ "Network" ➡ "Manual Network Settings", then press [**OK**].



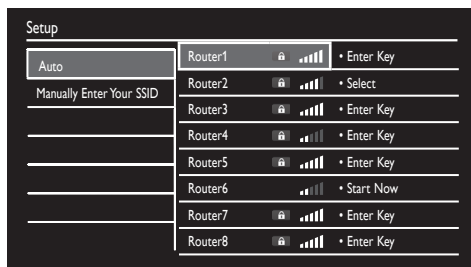
■ For Wireless Connection

2. Select "Network Selection" using [**▲/▼**], then press [**OK**].
3. Select "Wireless" using [**▲/▼**], then press [**OK**].
4. Select "Wireless Network Setting" using [**▲/▼**], then press [**OK**].

You will be asked to Select "Auto" or "Manually Enter Your SSID". Select an adequate Method according to your Wireless Router and Settings.

Auto

5. Select "Auto" using [**▲/▼**], then press [**OK**].
- Access Points List will be Displayed.



appears next to the SSID (Access Point) that is Protected with Security.



shows the Access Point's Signal Strength.

6. Select an Access Point to which you wish to Connect this Unit using [**▲/▼**], then press [**OK**].

If you select an Access Point with "Enter Key", "Start Now", or "Select"...

For "Enter Key": WEP / WPA / WPA2 key entry Screen will appear: Refer to Step 6 to 9 in 'Manual' on page 50.
For "Start Now": Connection Test will Start. If Connection Test passes, press [**OK**] to Complete the Network Setup, then press [**⬆️ (home)**] Repeatedly to Exit.
For "Select": WPS Connection Method Screen will appear: Refer to Step 4 to 9 on page 50.

Manually Enter Your SSID

5. Select "Manually Enter Your SSID" using [**▲/▼**], then press [**OK**].
 - SSID Entry Screen will appear:
6. Enter the SSID using the On screen Keyboard.
 - For details on how to use the On screen Keyboard, refer to 'Guide to the On Screen Keyboard' on page 45.
7. Select "OK" using [**▲/▼/◀/▶**], then press [**OK**].
 - Confirmation Message will appear:
8. Select "Yes" using [**◀/▶**], then press [**OK**].
9. Press [**OK**] on the SSID.
 - List of Security Methods will be Displayed.
10. Select an adequate Security Method using [**▲/▼**], then press [**OK**].

If you Select "None"...

Connection Test will Start. If Connection Test passes, press [**OK**] to Complete the Network Setup, then press [**⬆️ (home)**] Repeatedly to Exit.

If you select "WEP" or "WPA/WPA2"...

WEP / WPA / WPA2 Key Entry Screen will appear Refer to Steps 6 to 9 in 'Manual' on page 50.

■ Wired Connection

Refer to 'For Wired Connection' on page 51.

Continued on next page.

IP Configuration

IP Setting Mode

1. Press [**⬆** (home)], then Select "Setup" ➡ "Network" ➡ "Manual Network Settings", then press [**OK**].
2. Select "IP Configuration" using [**⬆**/**⬇**/**⬅**/**➡**], then press [**OK**].
3. Select "IP Setting Mode" using [**⬆**/**⬇**], then press [**OK**].
 - You will be asked to Select "Auto" or "Manual".

IP Setting Mode:Auto

"Auto" will Automatically Configure the IP Setting.

4. Select "Auto" using [**⬆**/**⬇**], then press [**OK**].
 - Please Move on to 'DNS Setting Mode'.

IP Setting Mode: Manual

"Manual" lets you Manually Configure the IP Setting.

4. Select "Manual" using [**⬆**/**⬇**], then press [**OK**]. Select "IP Address" using [**⬆**/**⬇**], then press [**OK**].
 - IP Address Entry Cells will appear.
5. Enter an IP Address using [**⬆**/**⬇**] or [the Number buttons].

Setup	
Network Selection	IP Setting Mode
Wireless Network Setting	IP Address
IP Configuration	Subnet Mask
Proxy Configuration	Default Gateway
	Primary DNS
	Secondary DNS
	MAC Address

- Enter an IP Address after checking the Specifications of your Router.
 - If an IP Address is Unknown, check the IP Address of other Devices (e.g. PC connected with a LAN cable). Then, in the Cell to the far right, assign a Different Number from those other Devices.
6. Press [**OK**] when at the Cell to the far right.
 - Please Move on to 'Subnet Mask'.

DNS Setting Mode

5. Select "DNS Setting Mode" using [**⬆**/**⬇**], then press [**OK**].
 - You will be asked to select "Auto" or "Manual".

DNS Setting Mode:Auto

6. Select "Auto" using [**⬆**/**⬇**], then press [**OK**].
 - Please Move on to 'Proxy Configuration' if your ISP (Internet Service Provider) requires Proxy Configuration. Otherwise, Move on to 'Connection Test'.

DNS Setting Mode: Manual

6. Select "Manual" using [**⬆**/**⬇**], then press [**OK**].
 - Please Move on to 'Primary DNS'.

Subnet Mask

7. Select "Subnet Mask" using [**⬆**/**⬇**], then press [**OK**].
 - Subnet Mask Entry Cells will appear.
8. Enter the Subnet Mask using [**⬆**/**⬇**] or [the Number buttons].

Setup	
Network Selection	IP Setting Mode
Wireless Network Setting	IP Address
IP Configuration	Subnet Mask
Proxy Configuration	Default Gateway
	Primary DNS
	Secondary DNS
	MAC Address

- Enter the Subnet Mask after checking the Specifications of your Router; then Enter the Same Numbers in the Cells.
9. Press [**OK**] when at the Cell to the far right.
 - Please Move on to 'Default Gateway'.

Continued on next page.

Default Gateway

10. Select “Default Gateway” using [▲/▼], then press [OK].
 - Default Gateway Address Entry Cells will appear.
11. Enter the Default Gateway Address using [▲/▼] or [the Number buttons].

The screenshot shows the 'Setup' menu with the following options: Network Selection, Wireless Network Setting, IP Configuration (highlighted), Proxy Configuration, Subnet Mask, Default Gateway (highlighted), Primary DNS, Secondary DNS, and MAC Address. The IP Address field shows '0 0 0 0'.

12. Press [OK] when at the Cell to the far right.
 - Please Move on to 'Primary DNS'.

Primary DNS

13. Select “Primary DNS” using [▲/▼], then press [OK].
 - Primary DNS Address Entry Cells will appear.

The screenshot shows the 'Setup' menu with the following options: Network Selection, Wireless Network Setting, IP Configuration, Proxy Configuration, Subnet Mask, Default Gateway, Primary DNS (highlighted), Secondary DNS, and MAC Address. The IP Address field shows '0 0 0 0'.

14. Enter the Primary DNS Address using [▲/▼] or [the Number buttons].
15. Press [OK] when at the Cell to the far right.
 - Please Move on to 'Secondary DNS'.

Secondary DNS

16. Select “Secondary DNS” using [▲/▼], then press [OK].
 - Secondary DNS Address Entry Cells will appear.
17. Enter the Secondary DNS Address using [▲/▼] or [the Number buttons].

The screenshot shows the 'Setup' menu with the following options: Network Selection, Wireless Network Setting, IP Configuration, Proxy Configuration, Subnet Mask, Default Gateway, Primary DNS, Secondary DNS (highlighted), and MAC Address. The IP Address field shows '0 0 0 0'.

- Enter the Secondary DNS Address after checking the specifications of your Router, then enter the same numbers in the cells.
18. Press [OK] when at the Cell to the far right.
 - Please Move on to 'Connection Test'.

Proxy Configuration

Proxy Setting

1. Press [⬆️(home)], then Select “Setup” ➡️ “Network” ➡️ “Manual Network Settings”, then press [OK].
2. Select “Proxy Configuration” using , then press [OK].
3. Select “Proxy Setting” using [▲/▼], then press [OK].
4. Select “Use” using [▲/▼], then press [OK].
5. Select “Proxy Address” using [▲/▼], then press [OK].
 - Proxy Address Entry Screen will appear.

The screenshot shows the 'Proxy Address Entry' screen with a numeric keypad. The numbers 1 through 0 are displayed in a grid. Below the grid are buttons for 'Clear', 'Clear all', 'a/A/@', 'Cancel', and 'OK'.

Continued on next page.

6. Enter the Proxy Address using the On screen Keyboard.
 - For details on how to use the On screen Keyboard, refer to 'Guide to the On Screen Keyboard' on page 45.
7. Select "OK" using [▲/▼/◀/▶], then press [OK].
 - Confirmation Message will appear.
8. Select "Yes" using [◀/▶], then press [OK].
 - Please Move on to 'Proxy Port'.

Proxy Port

9. Select "Proxy Port" using [▲/▼], then press [OK].
 - Proxy Port Number Entry Cell will appear.
10. Enter the Proxy Port Number using [▲/▼] or [the Number buttons].
11. Press [OK].

Connection Test

After Enabling a Network Connection or Manually change the Network Settings, always perform the Connection Test to check to see if the Connection is correctly made.

1. Press [▲(home)], then select "Setup" ➡ "Network" ➡ "Connection Test" ➡ "Start Now", then press [OK].
 - Connection Test will Start. The Test Result will appear right after the Test Finishes.
 - "Testing..": The Test is in Progress.
 - "Pass": Connection Test is Successfully Completed.
 - "Fail": Connection Test Failed. Check the Network Settings.
2. Press [OK] to Select "Info".
 - Network Address Information will be Displayed.
3. Press [OK] to Finish.

About Download Speed

If a message which informs you that your Internet Connection Speed is too slow to use Video On-Demand Services, you may need to Update your Connection Speed. Please contact your ISP for further Assistance.

Setting Status

You can Check the Network Status.

1. Press [▲(home)], then select "Setup" ➡ "Network" ➡ "Setting Status", then press [OK].
 - List of Network Information will be Displayed.
 - Press [▲(home)] Repeatedly to Exit.

USB-HDD Connection

If you wish to use a USB-HDD, connect a USB-HDD to this Unit and Register it. The USB-HDD is Not Ready to use until it is Registered.

Before Connecting a USB-HDD (external HDD)

USB-HDD can Record Digital TV Programs, which this Unit Receives, and Plays back the Recorded Titles just like the Internal HDD does. (Refer to the USB-HDD's Manual as well.)

- If Connecting a USB-HDD that has been used on another Device (HDD Recorder / TV / PC) to this Unit, **ALL** Stored Data on the USB-HDD will be **DELETED** due to necessary Initialization in this Unit's Unique Formatting.
- In order to Use the USB-HDD (which has been Connected to this Unit), on a PC, the USB-HDD will need to be Initialized (Reformatted) on the PC. Note that **ALL** Stored Data on the USB-HDD will be **DELETED**.
- Stored Titles Recorded on the USB-HDD with this Unit can Only be Played on this Unit. Other HDD Recorders or PC's are not compatible.

Continued on next page.

Registering a USB-HDD

If you Connect an Unregistered USB-HDD with 32GB to 4TB, this Unit Automatically Detects it and prompts you to Register the USB-HDD with the Unit.

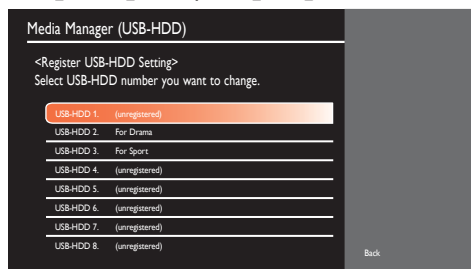
Note(s)

- ALL Stored Data on the USB-HDD will be DELETED due to necessary Initialization in this Unit's Unique Formatting.
- You can Register up to 8 USB-HDDs.

1. Press [**⬆** (home)], then select “Media Manager” ➡ “USB-HDD Menu” ➡ “Register USB-HDD Setting” using [**⬆** / **⬇** / **⬅** / **➡**], then press [**OK**].

- USB-HDD Registration Screen will appear.

2. Select any “(unregistered)” Row using [**⬆** / **⬇**], then press [**OK**].



3. Select “Register USB-HDD in this device” using [**⬆** / **⬇**], then press [**OK**].

- Confirmation Message will appear twice. If you Agree, select “Yes” using [**⬅** / **➡**], then press [**OK**]. Formatting will Start. Wait until Formatting is Completed.

4. Select to change the Device Name or not.

- If you wish to change the Device Name, select “Yes” using [**⬅** / **➡**], then press [**OK**]. Move on Step 2 in ‘Changing the Device Name’ on this page.
- If you do NOT wish to change the Device Name, select “No” using [**⬅** / **➡**], then press [**OK**].

Deregistering a USB-HDD

1. Press [**⬆** (home)], then select “Media Manager” ➡ “USB-HDD Menu” ➡ “Register USB-HDD Setting” using [**⬆** / **⬇** / **⬅** / **➡**], then press [**OK**].

- USB-HDD Registration Screen will appear.

2. Select a USB-HDD to Deregister using [**⬆** / **⬇**], then press [**OK**].

- Confirmation Window will appear.

3. Select “Deregister USB-HDD” using [**⬆** / **⬇**], then press [**OK**].

- Confirmation Message will appear.

4. Select “Yes” using [**⬅** / **➡**], then press [**OK**].

5. Confirmation Message will appear again. Select “Yes” using [**⬅** / **➡**], then press [**OK**].

- Deregistration will be Completed. Press [**⬆** (home)] Repeatedly to Exit.

Note(s)

- After Deregistration of USB-HDD, all Recorded Titles in the USB-HDD cannot be Played back.

Changing the Device Name

After Registration of USB-HDD is Completed, you are asked if you wish to Change the Name of the USB-HDD.

1. Press [**⬆** (home)], then select “Media Manager” ➡ “USB-HDD Menu” ➡ “Edit USB-HDD Name” using [**⬆** / **⬇** / **⬅** / **➡**], then press [**OK**].

2. Enter a Name using the On screen Keyboard.

- Confirmation Message will appear: If you Agree, select “Yes” using [**⬅** / **➡**], then press [**OK**]. Registration will be Completed and this Unit will Switch to the TV viewing mode. (If you have Entered from “Edit USB-HDD Name”, the Unit returns to “USB-HDD Menu” screen.)

- For details on how to use the On screen Keyboard, refer to ‘Guide to the On Screen Keyboard’ on page 45.

Continued on next page.

Disclaimer

- We are not responsible for any damages or injury caused by fire, natural disaster (including earthquakes, lightning strikes, etc.), misuse, or use under abnormal circumstances.
- We are not responsible for any indirect damages from use of this Unit or malfunction of this Unit.
- We are not responsible for any damages caused by not following the instructions in the User Manual.
- We are not responsible for any damages from system malfunctions caused by use of an unauthorized third party's device, software or a combination of these.

Important Notes for the Internal HDD and USB-HDD's

- This Unit is equipped with an Internal HDD.
- A USB-HDD can be used by Connecting it to this Unit.
- Connect the USB-HDD directly to this Unit. Connection via a USB hub is Not Supported.
- HDD's are susceptible to damage from conditions, such as Impact Shock, Vibration, and Temperature changes. To avoid losing Stored Data, be careful of the following:
 - Do Not Vibrate or Send Shock Waves to the HDD.
 - Do Not use this Unit on an Unstable or Moving Surface.
 - Place this Unit on a Level Surface. For the USB-HDD, place it as the Manufacturer Advises.
 - Do Not Block the Cooling Vents on the Bottom or Rear Panel on this Unit.
 - Do Not use this Unit in Places where the Temperature is Extremely High or Fluctuates greatly.
 - Do Not Unplug the AC Power cord while this Unit is On.
 - Do Not unplug the AC power cord or Turn Off the Circuit Breaker while this Unit is Recording or Playing back. When Unplugging the AC Power cord, press **[⏻ (Power-ON)]** first, wait until this Unit has finished its Shutdown Procedure, confirm that it is completely Shut Down, then Unplug the AC Power cord.
 - We are Not Responsible for Data Loss due to Impact Shock, Vibration, False Operations, Malfunction or unauthorized Repair of this Unit.
- HDD's have numerous Mechanical parts inside and are Highly Precise and Fragile, similar to PC's; there is a possibility that a partial breakdown could occur, resulting in Data Reading / Writing becoming Impossible. Therefore, the HDD should be considered a Temporary Storage Device until Viewing the Recorded Titles. If a Recording is attempted on a partially-broken area on the HDD, block-noise in the picture or distorted sound may occur. If the HDD is continuously used in this condition, the symptoms may become severe, and in the end, the entire HDD may become unusable. If such symptoms appear; please contact the Service as soon as possible for maintenance or repair.

Continued on next page.

Net TV

Before Using Network Services

Please follow the Instructions below before using Network Features.

1. Connect this Unit to the Internet.
 - Refer to 'Connection to the Network' on page 19.
2. Configure the Necessary Network Connection Settings.
 - Refer to 'Network Settings' on page 49.
3. Press [NET TV].
 - Net TV Screen will appear.
4. Select the Desired APP using [▲/▼/◀/▶], then press [OK].

■ For the First Time Only...

"Network Service Disclaimer" Screen will appear.

1. After Confirming the Content, Select "Agree" using [◀/▶], then press [OK].
 - The Screen will Return to the Net TV Screen.

■ Setting Country

1. Press [▲(home)], then select "Net TV" ➡ "Country" using [▲/▼/◀/▶], then press [OK].
 - Country Selection Screen will appear.

ⓘ Note(s)

- To Exit from a Network Service, press [▲(home)].
- You can later Return to the "Network Service Disclaimer" Screen by selecting "Terms of Use" in Net TV Screen.

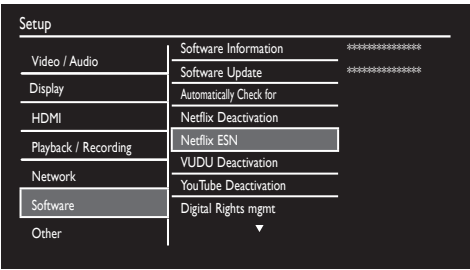
Information on Network Services

For detailed information on the third-party Internet services, please visit each Service Provider's Website.
Netflix: <http://www.netflix.com/HowItWorks>
VUDU: http://www.vudu.com/product_overview.html
CinemaNow: <http://www.cinemanow.com>

Netflix ESN

You can View the ESN (Electronic Serial Number, which Netflix uses to Identify your Device). Netflix Customer Service might ask you for this Number during Troubleshooting.

1. Press [▲(home)], then select "Setup" ➡ "Software" ➡ "Netflix ESN", then press [OK].
 - "Netflix ESN" will be displayed.



- Press [▲(home)] Repeatedly to Exit.

Deactivation of Network Services

You can Remove your Account Information tied to a Network Service and Deactivate it.

1. Press [▲(home)], then select "Setup" ➡ "Software", then press [OK].
2. Select "xxxx deactivation"* using [▲/▼], then press [OK].
 - * xxxx will be the Network Service name to Deactivate.
3. Select "Yes" using [▲/▼], then press [OK].
 - Press [▲(home)] Repeatedly to Exit.

11. FUNCTION SETUP

List of Settings

The following Table has the Information which you can Set and the gray cells are the Default Settings. Refer to the following Table for useful Operations.

Menu		Items (highlighted in gray is the default)		Contents
Setup	Video / Audio	TV Aspect	4:3 Letter Box	Set a picture size according to aspect ratio of your TV.
			4:3 Pan & Scan	
			16:9 Wide	
			16:9 Squeeze	
		Still Mode	Auto	Set the type of Still Image when Pausing during Playback
			Field	
			Frame	
		Noise Reduction	Off	Reduce the noise in the picture.
			Minimum	
			Medium	
			Maximum	
		Dolby Digital	PCM	Set the type of sound signal which outputs from the HDMI output jack.
			Bitstream	
		DRC	Off	Compress the range of sound volume.
			On	
	Display	Language	English	Set the language for menu language.
			Français	
			Español	
		Caption Settings	Closed Caption	Set whether to display Closed Captions.
			Caption Service	Set the type of Analog TV Closed Caption.
		Digital Caption Service	CS-1	Set the type of Digital TV Closed Caption.
			CS-2	
			CS-3	
			CS-4	
			CS-5	
			CS-6	

Continued on next page.

Menu	Items (highlighted in gray is the default)		Contents
Setup	Display	Caption Settings	Digital Caption Options
			Reset to Default
			Reset to Default
			Font Style
			Default
			Monospaced Serif
			Serif
			Monospaced Sans
			Sans Serif
			Casual
			Cursive
			Small Caps
			Font Size
			Default
			Small
			Standard
			Large
			Font Color
			Default
			Black
			White
			Red
			Green
			Blue
			Yellow
			Magenta
			Cyan
			Font Opacity
			Default
			Solid
			Transparent
			Translucent
			Flashing
			Background Color
			Default
			Black
			White
			Red
			Green
			Blue
			Yellow
			Magenta
			Cyan
			Background Opacity
			Default
			Solid
			Transparent
			Translucent
			Flashing

Continued on next page.

Menu		Items (highlighted in gray is the default)		Contents		
Setup	Display	Caption Settings	Digital Caption Options	Edge Color	Set the Edge Color of the displayed caption.	
				Default		
				Black		
				White		
				Red		
				Green		
				Blue		
				Yellow		
				Magenta		
				Cyan		
				Edge Type		Set the edge type of the displayed caption.
				Default		
				None		
				Raised		
	Depressed					
	Uniform					
	Left Drop Shadow					
	Right Drop Shadow					
	TV Screen Protection	Off	Set whether to reduce the brightness of the display when there is no operation for 5 Minutes while Menu Screen is displayed.			
		On				
	HDMI	HDMI Video Resolution	Auto	Set the resolution of an output signal from the HDMI jack.		
			480p			
			720p			
			1080i			
			1080p			
		HDMI Audio Out	Off	Set whether to output sound from HDMI jack.		
			On			
Playback / Recording	Variable Skip	5 Seconds	Set the amount of skip time when you press [SKIP] during Playback.			
		10 Seconds				
		30 Seconds				
		1 Minute				
		5 Minutes				
	Variable Replay	5 Seconds	Set the amount of rewind time when you press [REPLAY] during Playback.			
		10 Seconds				
		30 Seconds				
		1 Minute				
		5 Minutes				
	Auto Chapter	Off	Insert the chapter marks at a preset time interval during Recording.			
		5 Minutes				
		10 Minutes				
15 Minutes						
20 Minutes						
30 Minutes						
60 Minutes						

Continued on next page.

Setup	Menu		Items (highlighted in gray is the default)				Contents
	Network	Network Settings Assistant	Start Now	Wireless	Easy Connect		Set up network connection settings interactively.
					Scan	WPS code	
						Easy Connect	
						Manual	
				Manual Entry			
		Wired					
		Manual Network Settings	Network Selection		Wired		Set up network connection settings manually.
					Wireless		
			Wireless Network Setting	Auto		This setting is displayed only when "Network Selection" is set to "Wireless".	
				Manually Enter Your SSID			
	IP Configuration		IP Setting Mode		Set up the IP Address, DNS and MAC Address for Network Settings. If "Auto" is selected in "IP Setting Mode", "IP Address", "Subnet Mask" and "Default Gateway" is not displayed. If "Manual" is selected in "IP Setting Mode", "DNS Setting Mode" is not displayed.		
				Auto			
				Manual			
			IP Address				
			Subnet Mask				
			Default Gateway				
			DNS Setting Mode				
				Auto			
				Manual			
			Primary DNS				
	Secondary DNS						
	MAC Address						
		Proxy Configuration	Proxy Setting		Set up Proxy Setting while Network is connected. "Proxy Address" and "Proxy Port" is not displayed if you select "Do not Use" in "Proxy Setting".		
				Do not Use			
				Use			
			Proxy Address				
	Proxy Port						
	Connection Test	Start Now					After you enable a network connection or change the network settings, always perform the Connection Test to check if the connection is correctly made.
	Setting Status						Display the current Setting Status.
Device Name						Change the name of the unit.	
Software	Software Information					Display the current software version.	
	Software Update	USB				Update the software by using USB or Network (Internet).	
		Network					
	Automatically Check for	Off				Set whether to check for latest software automatically.	
		On					
	Netflix Deactivation	Yes				Set whether to deactivate Netflix connection.	
		No					
	Netflix ESN					Display the ESN information.	
	VUDU Deactivation	Yes				Set whether to deactivate VUDU connection.	
		No					
	YouTube Deactivation	Yes				Set whether to deactivate YouTube connection.	
		No					
	Digital Rights mgmt					Display the Licenses of Digital rights management.	
License					Display the Licenses of Open Source Software.		

Continued on next page.

Menu		Items (highlighted in gray is the default)		Contents
Setup	Other	Auto Power Off	Off	Set whether to Turn the unit Off automatically when there is no operation for 3 hours.
			On	
		Remote Control	Code1	Set the Remote Control Code.
			Code2	
		Initialization	Initialize Settings	Reset to the default settings.
			Initialize for Network Setting	
			Initialize for Personal Information	
Installation	Channels	Autoprogram	Start Now	Scan the available channels.
		Weak Channel Installation		Add the channels that were not added by "Autoprogram". (When "Installation Mode" is Set to "Antenna" only.)
		Installation Mode	Antenna	Install channels by Antenna.
			Cable	Install channels by Cable.
		Skipping Channels		Set channels you want to skip using [CH +/-] .
	Clock	Clock Setting		Set the clock.
		Auto Clock	Off	Set the clock automatically. (Displayed only when this unit is receiving Digital signal.)
			On	
		Time Zone	Atlantic	Adjust the time for each time zone.
			Eastern	
			Central	
			Mountain	
			Pacific	
			Alaska	
			Hawaii	
Daylight Saving Time	Off	Set the clock 1 hr ahead or back for Daylight Saving Time.		
	On			
Digital Audio Language			You can select the Audio Language while your TV is receiving the Digital broadcasting.	
Alternate Audio	Main		You can select Main or SAP while your TV is receiving the Analog broadcasting that has the SAP (Second Audio Program). It differs depending on the program.	
	SAP			
Mono / Stereo	Mono		You can select Mono or Stereo if the Analog broadcasting is sending the MTS (Multichannel television sound).	
	Stereo			

Continued on next page.

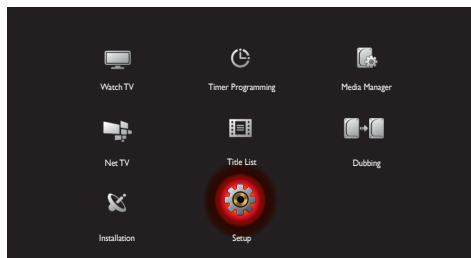
Menu		Items (highlighted in gray is the default)	Contents
Installation	Child Lock	Channel Lock	Set to Restrict Access on Certain Channels.
		TV Ratings Lock	Set the viewing limitation according to US TV program ratings.
		All	
		None	
		TV-Y	
		TV-Y7	
		TV-G	
		TV-PG	
		TV-14	
		TV-MA	
		Movie Ratings Lock	Set the viewing limitation according to US Movie Ratings.
		All	
		NR	
		G	
		PG	
		PG-13	
		R	
		NC-17	
		X	
		Canadian English Rating	Set the viewing limitation according to Canadian English language ratings.
		All	
		E	
		C	
		C8+	
		G	
		PG	
		14+	
		18+	
		Canadian French Rating	Set the viewing limitation according to Canadian French language ratings.
		All	
		E	
		G	
		8 ans+	
		13 ans+	
		16 ans+	
		18 ans+	
		Region Ratings Lock	Sets the Region rating. Displayed only when this unit is receiving the RRT5(V-Chip2.0).
	Change PIN		You can set your own PIN Code.

Continued on next page.

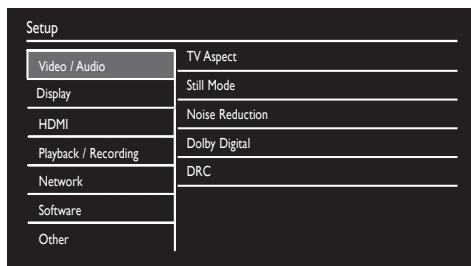
Setups

In the Setup Menu, you can customize the various kinds of Settings with your Preferences. Refer to the following Instructions to Navigate through the Setup Menu.

1. Press [**⬆️(home)**] then select "Setup" using [**⬆️/⬆️/⬆️/⬆️**] then press [**OK**].



2. Select a desired Item using [**⬆️/⬆️**] then press [**OK**].



- Sub Menu will appear:

3. Press [**⬆️(home)**] Repeatedly to Exit.

Video / Audio

➡ p.66

Adjusting the Video / Audio Mode or some other Picture / Sound functions.

Display

➡ p.67

Adjusting the Picture Mode or customize the Picture quality as your preference.

HDMI

➡ p.70

Setting the HDMI connection only when using the HDMI cable.

Playback / Recording

➡ p.70

Setting the intervals of Variable Skip and Replay for playback, and Auto Chapter for recording TV programs as your preference.

Network

➡ p.49

Setting the Network (Internet) Connection in order to use Network or Network Update function.

Software

➡ p.71

You can check the Current Software Version, Update the Software or Deactivate the Setting for Net TV.

Other

➡ p.71

Adjusting Other Function's:
Reset the Setting to Default or Set the Code for the Remote.

Continued on next page.

Video / Audio

1. Select a desired Item using [▲/▼], then press [OK].

Setup		
Video / Audio	TV Aspect	• 16:9 Squeeze
Display	Still Mode	• Auto
HDMI	Noise Reduction	• Off
Playback / Recording	Dolby Digital	• Bitstream
Network	DRC	• Off
Software		
Other		











• Sub Menu will appear.









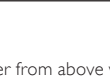
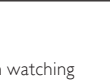
2. Set the selected item in references below.

TV Aspect

Use this Feature to Adjust the Aspect Ratio of the Video Source which is different from your TV's Ratio to fit your TV monitor without Distorting the Picture.

1. Select a Setting using [▲/▼], then press [OK].

Setting of TV Aspect	Aspect ratio of the video source	
	4:3	
	When "HDMI Video Resolution" is set to "480p" or when you Connect this Unit to the TV using the Audio/Video cables.	When "HDMI Video Resolution" is set to "720p" – "1080p".
		
4:3 Letter Box		
4:3 Pan & Scan		
16:9 Wide		
16:9 Squeeze		

Setting of TV Aspect	Aspect ratio of the video source	
	16:9	
	When "HDMI Video Resolution" is set to "480p" or when you Connect this Unit to the TV using the Audio/Video cables.	When "HDMI Video Resolution" is set to "720p" – "1080p".
		
4:3 Letter Box		
4:3 Pan & Scan		
16:9 Wide		
16:9 Squeeze		

Note(s)

- TV Aspect may differ from above when watching Network Service.

If you have a standard TV:

Select "4:3 Letter Box" so that black bars appear on the top and bottom of the TV screen when playing back a wide-screen picture.
Select "4:3 Pan & Scan" for a full height picture with both sides trimmed when playing back wide-screen picture.

If you have a widescreen TV:

Select "16:9 Wide" when you wish to enjoy 16:9 picture on the 16:9 TV.
Select "16:9 Squeeze" to enjoy 4:3 picture on the 16:9 TV. Use this setting to display 4:3 picture on the 16:9 TV without distorting the aspect ratio of the picture when playing back standard picture.

Note(s)

- Please contact TV Manufacturer if you have any problem with it.

Continued on next page.

Still Mode

Use this Feature to Set the type of Still Image when Playback is Paused. Select "Auto" usually.

1. Select a Setting using [▲/▼], then press [OK].

Your Setting will be Activated.

- Auto:** Optimum Resolution Setting ("Field" or "Frame") will be Selected.
- Field:** Images in the Still Mode will be Stabilized.
- Frame:** Images in the Still Mode will be Highly Defined.

Note(s)

- Frame is 1 completed Video Image made up of 2 fields (There are 30 frames per second of NTSC video).

Noise Reduction

Reduces the Noise on the Playback picture.

1. Select a Setting using [▲/▼], then press [OK].

- Off:** Deactivates Noise Reduction.
- Minimum:** Sets Noise Reduction to Minimum.
- Medium:** Sets Noise Reduction to Medium.
- Maximum:** Sets Noise Reduction to Maximum.
- Auto:** Optimum setting will be selected.

Note(s)

- This function can also be Set during Netflix / VUDU / YouTube™ / CinemaNow Playback.
- The Setting will remain the Same even if the Unit is switched to Standby mode.

Dolby Digital

Sets the Dolby Digital Audio output from HDMI.

1. Select a desired Item using [▲/▼], then press [OK].

- PCM:** Converts the Dolby Digital into PCM (2 channel).
- Bitstream:** Outputs a Bitstream.

DRC (Dynamic Range Compression)

This Compression function will reduce the Volume of the Loudest sounds and Amplify quieter sounds to make it easier to hear voices or raise the average Sound Level.

1. Select a desired Item using [▲/▼], then press [OK].

- Off:** Sets DRC to Off.
- On:** Sets DRC to On.

Note(s)

- This function is available for Dolby Digital, Dolby Digital Plus.
- Not available for LPCM and MPEG playback.

Display

1. Select a desired Item using [▲/▼], then press [OK].

Setup		
Video / Audio	Language	• English
Display	Caption Settings	• Closed Caption
HDMI	TV Screen Protection	• On
Playback / Recording		
Network		
Software		
Other		

- Sub Menu will appear.

2. Set the selected Item in references below.

Language

Sets the Language for the On-screen display.

1. Select a desired Item using [▲/▼], then press [OK].

Your Setting will be Activated.

- English:** Sets the Language to English.
- Français:** Sets the Language to French.
- Español:** Sets the Language to Spanish.

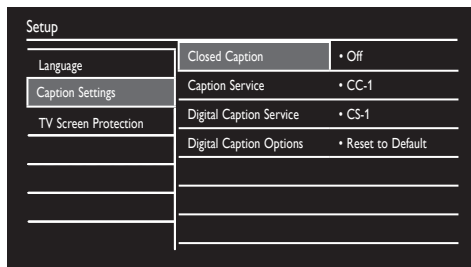
Continued on next page.

Caption Settings

Closed Caption refers to Text of Dialogue or Descriptions Displayed On-screen.

Use this Menu to change the Settings for Closed Caption. Sets the selected Item in references below.

1. Select a desired Item using [▲/▼], then press [OK].



Closed Caption

Off: Select if you Do Not want Closed Caption.

On: Sets Unit to display the Closed Caption.

- The Setting description for each Item is shown below.

Caption Service

- This Function is available on Analog broadcasting.

CC-1 and T-1	The Primary Caption and Text services. The Captioning or Text is displayed in the same Language as the Program's dialogue (up to 4 lines of script on the TV screen, where it does not obstruct relevant parts of the picture).
CC-3 and T-3	Serve as the preferred Data Channels. The Captioning 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.

Digital Caption Service

This Function is available on Digital broadcasting.

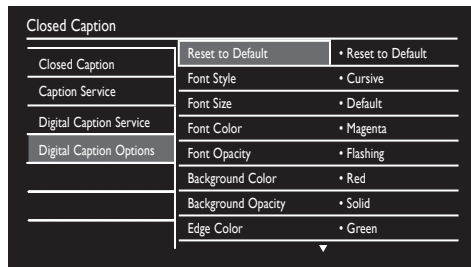
Change the Settings for Digital Caption Service using this Menu.

CS-1 to CS-6

Selects one of these before changing any other item in "Closed Caption" menu. Choose "CS-1" under normal circumstances.

Digital Caption Options

The following Settings can be Configured.



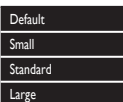
<Reset to Default>

You can Reset the Status of Digital Caption Options.

Font Style of the displayed Caption can be Switched.



Font Size of the displayed Caption can be Switched.



Font Color of the displayed Caption can be Switched.



Continued on next page.

Font Opacity of the displayed Caption can be Switched.

Default
Solid
Transparent
Translucent
Flashing

<Background Color>

Background Color of the displayed Caption can be Switched.

Default
Black
White
Red
Green
Blue
Yellow
Magenta
Cyan

<Background Opacity>

Background Opacity of the displayed Caption can be Switched.

Default
Solid
Transparent
Translucent
Flashing

<Edge Color>

Edge Color of the displayed Caption can be Switched.

Default
Black
White
Red
Green
Blue
Yellow
Magenta
Cyan

<Edge Type>

Edge Type of the displayed Caption can be Switched.

Default
None
Raised
Depressed
Uniform
Left Drop Shadow
Right Drop Shadow

Note(s)

- The EUT setting that satisfies § 79.102 (e) is as follows:
Font: Mono-font
Character size: Large

TV Screen Protection

This Setting will Reduce the Brightness of the On Screen Display by 25% when you do not operate any key on Remote Control for 5 Minutes.

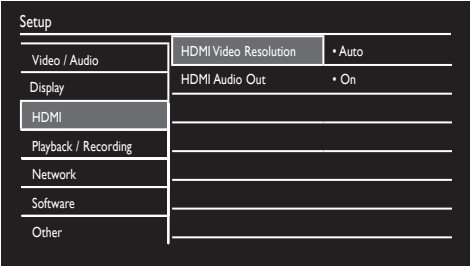
- Select a desired Item using [**▲**/**▼**], then press [**OK**].

Off: Sets the Setting to Off.
On: Sets the Setting to On.

Continued on next page.

HDMI

1. Select a desired Item using [▲/▼], then press [OK].



- Sub Menu will appear:

2. Set the selected Item in references below.

Note(s)

- Settings for HDMI is only available when there is HDMI Connection.

HDMI Video Resolution

Selects an HDMI output mode.
HDMI Connection makes this Unit automatically output the most suitable resolution for your TV.

1. Select a desired Item using [▲/▼], then press [OK].
- Auto:** Optimum setting will be selected.
480p: Sets HDMI resolution to 480 Progressive
720p: Sets HDMI resolution to 720 Progressive
1080i: Sets HDMI resolution to 1080 Interlaced
1080p: Sets HDMI resolution to 1080 Progressive
- The HDMI mode that is Not Supported by the Display Device will be Skipped.

Note(s)

- When the HDMI Video Resolution is set to “Auto” or “1080p”, Video signals are not output from the Video Out jack depending on your TV.

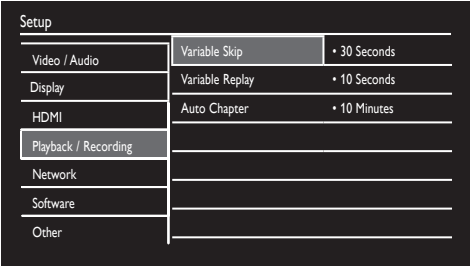
HDMI Audio Out

If you do not wish to Output the Audio through HDMI, you can set the HDMI Audio Output Off.

1. Select a desired Item using [▲/▼], then press [OK].
- Set to “Off” when the HDMI Sound is Not Output.
- On:** Outputs the Audio from HDMI.
Off: Mutes the Audio from HDMI.
- Your Setting will be Activated.

Playback / Recording

1. Select a desired Item using [▲/▼], then press [OK].



- Sub Menu will appear:

2. Set the selected Item in references below.

Variable Skip / Replay

Assign [SKIP] or [REPLAY] to Skip or Rewind by a certain amount of Time when they are pressed during Playback.

1. Select a desired Item using [▲/▼], then press [OK].

- Variable Skip**
Sets the amount of Skip time for [SKIP].
- 5 Seconds:** Sets the amount of Skip time to 5 Seconds.
10 Seconds: Sets the amount of Skip time to 10 Seconds.
30 Seconds: Sets the amount of Skip time to 30 Seconds.
1 Minute: Sets the amount of Skip time to 1 Minute.
5 Minutes: Sets the amount of Skip time to 5 Minutes.
- Variable Replay**
Sets the amount of Rewind time for [REPLAY].
- 5 Seconds:** Sets the amount of Rewind time to 5 Seconds.
10 Seconds: Sets the amount of Rewind time to 10 Seconds.
30 Seconds: Sets the amount of Rewind time to 30 Seconds.
1 Minute: Sets the amount of Rewind time to 1 Minute.
5 Minutes: Sets the amount of Rewind time to 5 Minutes.

Continued on next page.

Auto Chapter

The Unit Inserts Chapter Marks periodically during Recording. Using the Auto Chapter menu, you can set this function Off or Change the Time Period.

1. Select a desired Item using [▲/▼], then press [OK].

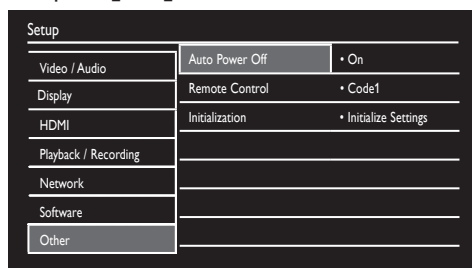
Off: Select if you Do Not want Auto Chapter.
5 Minutes: Insert Chapter Marks by every 5 Minutes.
10 Minutes: Insert Chapter Marks by every 10 Minutes.
15 Minutes: Insert Chapter Marks by every 15 Minutes.
20 Minutes: Insert Chapter Marks by every 20 Minutes.
30 Minutes: Insert Chapter Marks by every 30 Minutes.
60 Minutes: Insert Chapter Marks by every 60 Minutes.

Note(s)

- The Interval for Auto Chapter may be up to 2 Minutes different from the Time Option you Set.

Other

1. Select a desired Item using [▲/▼], then press [OK].



- Sub Menu will appear:

2. Set the selected Item in references below.

Auto Power Off

Set for the Auto Power Off function to Turn Off the Unit automatically when the unit has been inactive for 3 hours. Confirmation Message will be displayed 3 minutes before the Unit is automatically Turned Off.

Off: Select if you Do Not want Auto Power Off.
On: Sets the Auto Power Off to Activate.

Remote Control

Sets the Code 1 or 2 for your Remote Control. By setting the Remote Control Code to this Unit, you can prevent other devices from responding when you use the Remote Control.

1. Select your preferred Remote Control Code using [▲/▼].

- If the Unit and the Remote Control's Remote Control Code does Not match, an Error Message will appear on the TV Screen and REC and Power-ON Indicators on the Front Panel blink. Follow the instructions on the TV screen.

2. Keep pressing [TITLE LIST], then press the Remote Control Code you selected.

Code1 : Sets the Remote Control Code to 1.
Code2 : Sets the Remote Control Code to 2.

Note(s)

- You need to set both the Unit and the Remote Control to the Same Code.
- The Default setting for the Remote Control is "Code1".
- If the Unit is turned into Standby with unmatched Remote Control Code, the REC Indicator will blink.

Initialization

Initializes Settings on the Unit.

1. Select a desired Item using [▲/▼], then press [OK].

Initialize Settings: You can Reset the Status of Setup Menu.

Initialize for Network Setting: You can Reset the Status of Network Settings.

Initialize for Personal Information: You can Reset your Personal Information to the Factory Default.

2. Press [OK].

- Confirmation Message will appear; Select "Yes" using [◀/▶], then press [OK].
- When "Initialize for Personal Information" is selected, PIN Code entry window will appear; Enter the current 4-digit PIN Code number using [the Number buttons].

Note(s)

- These Settings listed below will remain Unchanged even after the "Initialize Settings".
 - Network Settings
 - Remote Control
 - Installation
- When "Initialize for Personal Information" is performed, all Recorded Titles in HDD and Registered USB-HDDs will be DELETED.

12. OTHERS

Troubleshooting

Before requesting service for this unit, check the table below for a possible cause of the problem you are experiencing. Some simple checks or a minor adjustment on your part may eliminate the problem and restore proper operation.

Symptom		Remedy
POWER	The Power Does Not turn On.	<ul style="list-style-type: none">• Check that the AC Power cord is connected securely.• Remote Control batteries may be weak, Replace them with new ones.• This Unit's Remote Control Code will be set back to the Default setting "Code1" after "Initialize for Personal Information". Keep pressing [TITLE LIST] and press the number button [1] on the Remote Control to Set the Remote Control's Remote Control Code to "Code1". (Refer to page 71 on 'Remote Control'.)• Leave the unit Unplugged for 5 Minutes, Plug the Unit back in. If the Unit Does Not Power On please contact our Customer Service Center for Service on the model.
	The unit turns On automatically without any operation.	<ul style="list-style-type: none">• The unit turns On automatically 6 seconds before the Timer Recording.
GENERAL	REC Indicator is Blinking during Standby.	<ul style="list-style-type: none">• The Clock Setting is not completed. (Refer to page 28 for complete the setting.)• The REC Indicator will blink in Standby mode, from 2 minutes Before the Programmed Starting Time.• Check the Remote Control Code. (Refer to 'Remote Control' on page 71.)• The REC Indicator will blink while the Unit is acquiring Auto Clock Data.
	The unit does not response.	<ul style="list-style-type: none">• "⊘" or error message appears if the operation is prohibited.• Remote Control batteries may be weak, replace them with new ones.• Leave the Unit unplugged for 5 Minutes, Plug the Unit back in. If the unit Does Not Power On please contact our Customer Service Center for Service on the model.
	No Picture, Sound or Menu appears on the Screen.	<ul style="list-style-type: none">• Depending on the Source/Connection, confirm the following:<ul style="list-style-type: none">– For Antenna/Basic Cable, redo an Auto Scan on the model.– For Satellite Receiver/Cable Box, check the connections to make sure they are securely connected.– For RF Coaxial Cable, redo an Auto Scan on the model.– For HDMI and RCA Audio/Video, check the connections to make sure they are securely connected.• Check if the Connections are made Securely and Correctly.• Check if the Cables are Damaged.• Check if a Correct External Input Channel is selected on your TV. (Refer to page 21.)• Check if you have Completed the Channel Setting. (Refer to pages 26–27.)• When you set HDMI with 1080p output, picture will not be displayed with RCA Video connection.
	Time jumps/Auto Clock set's incorrect time.	<ul style="list-style-type: none">• Set the 'Clock Setting (Auto)' to "Off" and try 'Clock Setting (Manual)' on page 28.
	The Unit Does Not Operate properly.	<ul style="list-style-type: none">• Moisture has Condensed inside the Unit. Leave the Unit turned On for about 2 hours until the Moisture Evaporates.
	When you Forget the Password for Parental Lock.	<ul style="list-style-type: none">• Enter 0711 in "Enter PIN" to reset the PIN Code.
	No Analog TV Closed Caption are Output.	<ul style="list-style-type: none">• If you are using an HDMI connection to watch the TV programs through this Unit, Analog TV Closed Caption cannot be Output. Try using Video / Audio Output connection to the TV.

Continued on next page.

GENERAL	No image from HDMI connection.	<ul style="list-style-type: none"> • Check the HDMI connection. (Check the status of the HDMI related indications.) • Check whether the connected Monitor Device or other Device supports HDCP. (This unit will Not Output a Video signal unless the other Device supports HDCP.) • Check the Setting of HDMI. • Check whether the Output Format of this Unit (HDMI FORMAT) matches the supported Input Format of another connected Device. • If above Remedies Do Not Work, Unplug the HDMI cable and the AC Power cords, then Plug them back in the order of 1: HDMI cable, 2: AC power cord.
	TV Channels Cannot be Changed.	<ul style="list-style-type: none"> • Check if the Connections are made Securely and Correctly. • Check if the Cables are Damaged. • Try Channel Setting by following the Steps on pages 26–27.
CHANNEL	Only Specific Channels do not Appear.	<ul style="list-style-type: none"> • The Channels may be Set to be Skipped. (Refer to page 27.)
RECORDING HDD / USB-HDD	Unable to Record.	<ul style="list-style-type: none"> • It is Prohibited to make a Recording from 2 minutes before the Programmed Start Time of a Timer Recording. • The space of the Recording Media may be used up. Try deleting Unnecessary Titles, or connect a recordable USB-HDD. • The Maximum Number of Titles has been Exceeded. Delete the Unnecessary Titles to make enough Space or connect a recordable USB-HDD. • Check if the Connections are made Securely and Correctly. • This Unit Cannot Record Audio Only Programs.
	Timer Recording Cannot be Performed.	<ul style="list-style-type: none"> • The Internal Clock of the Unit may have been Stopped due to a Power Outage. Reset the Clock Setting (Refer to page 28.)
PLAYBACK GENERAL	TV Aspect Ratio Does Not Match your TV Screen.	<ul style="list-style-type: none"> • Check the TV Aspect Ratio. (Refer to page 66.)
	Playback Picture is Distorted. Color of the Picture is Abnormal.	<ul style="list-style-type: none"> • During Fast Forward or Fast Reverse, Playback Picture may be Distorted. This is Not a Malfunction. • Check if the Cables are Damaged. • Keep the Equipment which may cause Electrical disturbances, such as a Cellular Phone, away from the unit.
	There is No Sound or No Subtitle.	<ul style="list-style-type: none"> • Turn On All connected Devices. • Check if the Connections are made Securely and Correctly. • If using the HDMI connection, Sound is Not Output when "HDMI Audio Out" is set to "Off". • Check the RCA Audio cable connection. If you are using HDMI-DVI conversion cable, you must also connect the RCA Audio cables. • If using the HDMI connection, check whether the Output Format of this Unit (HDMI FORMAT) matches the supported Input Format of the other connected Device.
	HDD Playback Does Not Start from the Beginning.	<ul style="list-style-type: none"> • Resume Function may be Activated. Refer to page 41 to Cancel the Resume Point.
DUBBING HDD	Dubbing Cannot be executed.	<ul style="list-style-type: none"> • When the number of the Titles exceeds the Maximum Recordable Number, the Dubbing will not be Executed. • Check the USB-HDD Connection is made Securely and Correctly. • Registration of USB-HDD is necessary before you perform Dubbing. (Refer to page 56.)
EDITING HDD	Titles cannot be Edited or Deleted.	<ul style="list-style-type: none"> • The Titles may be Protected. Cancel the Protection by following the Steps on page 45 for Title Protection.

Continued on next page.

The Remote Control Does Not Function.

- No Batteries in the Remote or the Batteries may be weak. Replace the Batteries.
- Make sure there is No Obstacle between the Remote and the Unit.
- Try getting closer to the unit. (Refer to page 11.)
- Please check IR signal. (Refer to page 4.)
- Check that the Unit and Remote Control's Remote Control Code Match. (Refer to page 71.)
- Cannot guarantee about third party's Remote Controls. Please Contact the Remote Manufacturer if you have any problem with it.
- If above solutions do not solve the problem, please call our Customer Support at 1-866-310-0744 or visit www.philips.com/support for additional assistance.

Cannot connect to the network.

- Check if the Ethernet cable connection is properly made. Turn On the modem or broadband router.
- Check the network settings.
- Check if the broadband router and/or modem is correctly connected.

Sometimes video quality is poor when using the wireless LAN.

- The wireless network connection quality varies depending on the distance or obstacles (e.g. wall, basement, 2nd floor) between the Unit and the wireless router (access point), from other wireless networks, and brand and type of the wireless router (access point). When using the Wireless LAN of the Unit, it is suggested to place the wireless router as close as possible to the Unit.

Wireless LAN connection fails or wireless connection is poor.

- Check the installation location of the Unit and wireless router (access point). Signal quality may be affected for the following reasons.
 - Interference of other wireless devices, microwaves, fluorescent lights, etc., are placed nearby.
 - There are floors or walls between the wireless router and Unit.
 - If the problems continue even after checking the above, try making a wired LAN connection.

Cannot use the wireless connection.

- Check if the Wireless LAN Access Point (AP) (e.g. wireless router) is oriented properly or not placed too close between them.
- Once you have activated the wireless connection please wait 30 Seconds for the connection to be established after Turning On the unit, before trying to access network features such as Net TV.

Cannot use Netflix feature.

- Netflix is available only in the United States and Canada.
- Check if the network connection is properly made.
- Visit <http://www.netflix.com/HowItWorks> on your PC and become a Netflix member.

Cannot add movies or TV episodes to the My List.

- Visit www.netflix.com on your PC.

Even though the speed of the Internet connection improves during playback, the picture quality of Netflix streaming movie does not improve.

- The picture quality does not change during playback. It differs depending on the speed of Internet connection at the time of loading.

Cannot use VUDU feature.

- VUDU is available only in the United States, Canada and Mexico.
- Check if the network connection is properly made.

Continued on next page.

Cannot rent or buy movies / TV episodes on VUDU.	<ul style="list-style-type: none"> You need to activate the VUDU account. For detailed information, please visit the service providers website at http://www.vudu.com/product_overview.html Log into your account at http://my.vudu.com and check your payment information.
The picture quality of streaming movie (Netflix or VUDU) is poor.	<ul style="list-style-type: none"> Check the speed of your Internet connection. You need speeds of at least 8 Mbps to this Unit for high quality uninterrupted playback.
Streaming movie (Netflix or VUDU) often stops or starts buffering during playback.	<ul style="list-style-type: none"> Contact your Internet service provider to troubleshoot your Internet connection for speed and line quality. Consistent line quality and speed are very important for Internet video playback.
Cannot use Easy connect (WPS) to connect to the Access Point.	<ul style="list-style-type: none"> Connect the unit to the Access Point using Scan or Manual entry mode. If the Access Point's security mode is set to WEP*, change the setting to WPA or WPA2 (recommended), then try Easy connect (WPS) again. (For Access Point configuration, please consult its user manual or manufacturer.) * WEP is not recommended to be used due to its Major security flaws. Change the Security protocol on the wireless router to WPA or WPA2 (recommended) mode.

Error Message

Error message	Cause	Solution
—Please check the USB Device.— Cannot find USB-HDD, Or USB-HDD which cannot be Recorded in this Device is connected.	<ul style="list-style-type: none"> The connected USB-HDD Cannot be Recognized on this Unit. 	<ul style="list-style-type: none"> You need to Register a USB-HDD to this Unit.
—Please check the USB Device.— Abnormality occurred in USB connection. USB device has been Stopped automatically.	<ul style="list-style-type: none"> The connected USB-HDD is detected to have an overcurrent condition. 	<ul style="list-style-type: none"> Please Disconnect the USB-HDD.
Please Connect valid USB-HDD.	<ul style="list-style-type: none"> The USB-HDD is Not Connected. The USB-HDD Does Not have enough Space to Complete the Recording. The USB-HDD is Unregistered. 	<ul style="list-style-type: none"> Check if USB-HDD is Not Connected properly. Check if the USB-HDD has enough Space. Check if the USB-HDD has been Registered to this Unit.
You Cannot Operate this During Moving.	<ul style="list-style-type: none"> You Cannot Play back the Title which is being Dubbed while moving it. 	<ul style="list-style-type: none"> Cancel the Dubbing when necessary. Wait until the Dubbing is Finished.

- If you are still having trouble with the Unit after checking 'Troubleshooting' items, write down the Error description when Calling our Help Line mentioned on the Front Page to locate an Authorized Service Center.

Continued on next page.

Glossary

Analog Audio

An electrical signal that directly represents sound. Compare this to digital audio which can be an electrical signal, but is an indirect representation of sound. See also "Digital Audio".

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 it is high).

Block Noise

A distortion of digital images in the shape of blocks caused by the application of data compression.

Chapter

Just as a book is split up into several chapters, a title on HDD is usually divided into chapters. See also "Title".

Digital Audio

An indirect representation of sound by numbers. During recording, the sound is measured at discrete intervals (44,100 times a second for CD audio) by an analog-to-digital converter, generating a stream of numbers. On playback, a digital-to-analog converter generates an analog signal based on these numbers. See also "Sampling Frequency" and "Analog Audio".

Dolby Digital

The system to compress digital sound developed by Dolby Laboratories. It offers you sound of stereo(2ch) or multi channel audio.

HDMI (High-Definition Multimedia Interface)

A digital interface between audio and video source. It can transmit component video, audio, and control signal with one cable connection.

PCM (Pulse Code Modulation)

The most common system of encoding digital audio, found on DAT. Excellent quality, but requires a lot of data compared to formats such as Dolby Digital and MPEG audio. For compatibility with digital audio recorders (MD and DAT) and AV amplifiers with digital inputs, this unit can convert Dolby Digital and MPEG audio to PCM. See also "Digital Audio".

Sampling Frequency

The rate which sound is measured by a specified interval to turn into digital audio data. The numbers of sampling in one second defines as sampling frequency. The higher the rate, the better the sound quality.

SAP (Secondary Audio Program)

Sub-audio channel which is delivered separately from Main-Audio channel. This Audio channel is used as an Alternate channel in Bilingual Broadcasting.

Title

A collection of chapters on HDD. See also "Chapter".

Continued on next page.

Specifications

General		HDR5750	HDR5710
HDD		1 TB	500 GB
Power requirements		120V AC +/- 10%, 60Hz +/- 5%	
Power consumption		21W (standby: 0.35W)	18W (standby: 0.35W)
Dimensions (width x height x depth)		11.1 x 2.0 x 8.0 inches (280 x 50.5 x 201.3mm)	
Weight		3.62 lbs. (1.64kg)	2.96 lbs. (1.34kg)
Operating temperature		41°F (5°C) to 104°F (40°C)	
Operating humidity		Less than 80% (no condensation)	
TV system		ATSC/NTSC-MTV standard	
Recording			
Recording format			
Video recording format			
Compression format		MPEG 2	
Audio recording format			
Compression format		Dolby Digital/Dolby Digital Plus	
Tuner			
Tuning system		Channel frequency synthesized tuning system	
Channel coverage (ATSC/NTSC)			
Terrestrial		VHF 2~13, UHF 14~69 (Analog/Digital)	
Cable		1~135 (Analog/Digital)	
Terminals			
Rear	VHF/UHF/Cable TV input and output		
	F-type	75Ω unbalanced	
	HDMI output		
	HDMI jack x 1	supporting video signals ; 480p~1080p, 60Hz	
	USB		
	USB terminal x 1	(for external USB-HDD and only for Software Update using USB Memory Stick)	
	LAN		
	Ethernet port x 1	10BASE-T/100BASE-TX	
Video output			
RCA jack x 1		1Vp-p (75Ω)	
Audio L / R output			
RCA jack x 2		2V rms (output impedance: more than 1kΩ)	

Note(s)

- The specifications and design of this product are subject to change without notice.

Continued on next page.

ONE (1) YEAR LIMITED WARRANTY

WARRANTY COVERAGE:

This warranty obligation is limited to the terms set forth below.

WHO IS COVERED:

This product is warranted 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. The Company warrants replacement products or parts provided under this warranty 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 the company's property. When a refund is given, your product becomes the company's 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 the new products that can be identified by the trademark, trade name, or logo affixed to it. This Limited Warranty does not apply to any non-Philips hardware product or any software, even if packaged or sold with the product. Non-Philips 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 any non-Philips 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-Philips product, (b) to damage caused by service performed by anyone other than an Authorized Service Location, (c) to a product or

a part that has been modified without written 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 Philips 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 IN THE U.S.A., CANADA, PUERTO RICO, OR U.S. VIRGIN ISLANDS...

Contact Customer Care Center at:
1-866-310-0744

REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY FOR THE CONSUMER. PHILIPS SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR BREACH OF ANY EXPRESS OR IMPLIED WARRANTY ON THIS PRODUCT. EXCEPT TO THE EXTENT PROHIBITED BY APPLICABLE LAW, ANY IMPLIED WARRANTY 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.

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