

OWNER'S MANUAL

DVD Player with DVB-T MPEG4 HD

Please read this manual carefully before operating
your set and retain it for future reference.

DV6T9H



MFL66859896

Safety Information



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



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



This 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.



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 product.

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

WARNING: Do not install this equipment in a confined space such as a book case or similar unit.

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

Slots and openings in the cabinet are provided for ventilation and to ensure reliable operation of the product and to protect it from over heating. The openings shall be never be blocked by placing the product on a bed, sofa, rug or other similar surface. This product shall not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instruction has been adhered to.



CAUTION: This product employs a Laser System.

To ensure proper use of this product, please read this owner's manual carefully and retain it for future reference. Shall the unit require maintenance, contact an authorized service center.

Use of controls, adjustments or the performance of procedures other than those specified herein may result in hazardous radiation exposure.

To prevent direct exposure to laser beam, do not try to open the enclosure. Visible laser radiation when open. DO NOT STARE INTO BEAM.

CAUTION concerning the Power Cord

Most appliances recommend they be placed upon a dedicated circuit;

That is, a single outlet circuit which powers only that appliance and has no additional outlets or branch circuits. Check the specification page of this owner's manual to be certain. Do not overload wall outlets. Overloaded wall outlets, loose or damaged wall outlets, extension cords, frayed power cords, or damaged or cracked wire insulation are dangerous. Any of these conditions could result in electric shock or fire. Periodically examine the cord of your appliance, and if its appearance indicates damage or deterioration, unplug it, discontinue use of the appliance, and have the cord replaced with an exact replacement part by an authorized service center. Protect the power cord from physical or mechanical abuse, such as being twisted, kinked, pinched, closed in a door, or walked upon. Pay particular attention to plugs, wall outlets, and the point where the cord exits the appliance. To disconnect power from the mains, pull out the mains cord plug. When installing the product, ensure that the plug is easily accessible.

This device is equipped with a portable battery or accumulator.

Safety way to remove the battery or the battery from the equipment:

Remove the old battery or battery pack, follow the steps in reverse order than the assembly. To prevent contamination of the environment and bring on possible threat to human and animal health, the old battery or the battery put it in the appropriate container at designated collection points. Do not dispose of batteries or battery together with other waste. It is recommended that you use local, free reimbursement systems batteries and accumulators. The battery shall not be exposed to excessive heat such as sunshine, fire or the like.

CAUTION: The apparatus shall not be exposed to water (dripping or splashing) and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Notes on Copyrights

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.

Under the U.S. Copyright laws and Copyright laws of other countries, unauthorized recording, use, display, distribution, or revision of television programs, videotapes, DVDs, CDs and other materials may subject you to civil and/or criminal liability.

Caution of Unit treatment

• **Shipping the unit**

Save the original packing materials and re-pack the unit with them to maximize protection.

• **Cleaning the unit**

Clean the unit using a soft and dry cloth with a mild detergent solution, not strong solvents occurred the damage of surface.

• **Maintaining performance of the unit**

Maintain the cleaning status of optical pick-up lens and disc drive parts. If they are dirty or worn, the displayed quality could be diminished. For details, please contact your nearest authorized service center.

Disposal of your old appliance



1. When this crossed-out wheeled bin symbol is attached to a product it means the product is covered by the European Directive 2002/96/EC.
2. All electrical and electronic products shall be disposed of separately from the municipal waste stream via designated collection facilities appointed by the government or the local authorities.
3. The correct disposal of your old appliance will help prevent potential negative consequences for the environment and human health.
4. For more detailed information about disposal of your old appliance, please contact your city office, waste disposal service or the shop where you purchased the product.

CE LG Electronics hereby declares that this/ these product(s) is/are in compliance with the essential requirements and other relevant provisions of Directive 2004/108/EC, 2006/95/EC, and 2009/125/EC.

European representative: LG Electronics Service Europe B.V. Veluwezoom 15, 1327 AE Almere. The Netherlands (Tel : +31-(0)36-547-8888)

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Introduction

Symbols Used in this Manual

A section whose title has one of the following symbols are applicable only to the disc represented by the symbol.

DVD	DVD-Video, DVD±R/RW
ACD	Audio CDs
MOVIE	Movie files contained in the USB/Disc
MUSIC	Music files contained in the USB/Disc
PHOTO	Photo files contained in the USB/Disc

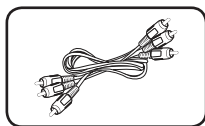
About the “⊘” Symbol Display

“⊘” may appear on your TV display during operation and indicates that the function explained in this owner's manual is not available on that specific media.

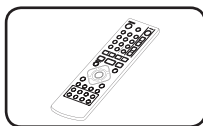
Regional Code

This unit has a regional code printed on the rear of the unit. This unit can play only DVD disc labeled same as the rear of the unit or “ALL”.

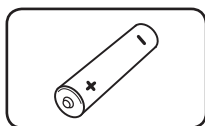
Supplied Accessories



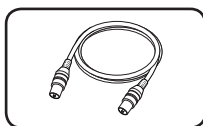
RCA Video/Audio cable (1)



Remote control (1)



Battery (1)



RF Cable (1)

Playable Discs

	DVD-VIDEO (8 cm / 12 cm disc) Discs such as movies that can be purchased or rented.
 	DVD±R (8 cm / 12 cm disc) - Video mode and finalized only - Supports the dual layer disc also - DVD±R discs that contain Movie, Music or Photo files.
	DVD-RW (8 cm / 12 cm disc) - VR mode, Video mode and finalized only - DVD-RW discs that contain Movie, Music or Photo files.
	DVD+RW (8 cm / 12 cm disc) - Video mode and finalized only - DVD+RW discs that contain Movie, Music or Photo files.
	Audio CD (8 cm / 12 cm disc)
	CD-R/RW (8 cm / 12 cm disc) CD-R/RW discs that contain audio titles, Movie, Music or Photo files.

File compatibility

Overall

Available File extensions: ".jpg", ".jpeg", ".avi", ".divx", ".mpg", ".mpeg", ".mkv", ".mp3", ".wma"

- The file name is limited to 45 characters.
- Depending on the size and number of the files, it may take several minutes to read the contents on the media.

Maximum Files/Folder: Less than 2000 (total number of files and folders)

CD-R/RW, DVD±R/RW Format: ISO 9660+JOLIET

MOVIE

Available resolution size:

1920 x 1080 (W x H) pixels

Playable subtitle: SubRipper (.srt), MicroDVD (.sub/.txt), SAMI (.smi), SubStation Alpha (.ssa), Advance SubStation Alpha (.ass), SubViewer 2.0 (.sub), DVD Subtitle (.txt)

Playable Codec format: "DIVX3.xx", "DIVX4.xx", "DIVX5.xx", "DIVX6.xx" (Standard playback only), "MPEG-1", "MPEG-2", "MPEG-4 AVC (H.264)"

! Note

- This unit does not support the file that is recorded with GMC^{*1} or Qpel^{*2}. Those are video encoding techniques in MPEG4 standard, like DivX or XVID have.
*1 GMC – Global Motion Compensation
*2 Qpel – Quarter pixel
- This unit supports MPEG-4 AVC (H.264) at Level 4.1 for Main Profile and High Profile and at Level 3.1 for Baseline profile.
- Even though the resolution for some Movie file is supported, there may be not operated by limitation of system memory.

Playable Audio format: "Dolby Digital", "DTS", "MP3", "WMA", "AC3"

Sampling frequency: within 8 - 48 kHz (MP3), within 32 - 48 kHz (WMA)

Bit rate: within 32 - 320 kbps (MP3), within 20 - 320 kbps (WMA)

Bit rate (DivX):

less than 1.2 Mbps (CD-R/RW)

less than 9.7 Mbps (USB, DVD±R/RW)

MUSIC

Sampling frequency: within 8 - 48 kHz (MP3), within 32 - 48 kHz (WMA)

Bit rate: within 8 - 320 kbps (MP3), within 32 - 192 kbps (WMA)

PHOTO

Recommended size:

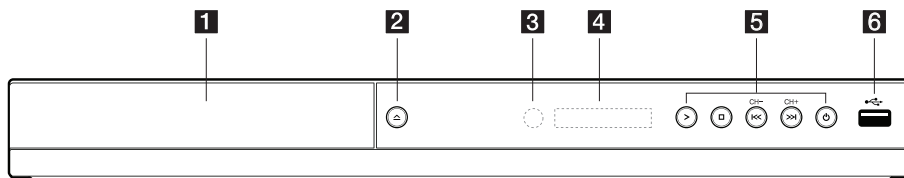
more than 32 x 32 x 32 bit/pixel

less than 4800 x 3500 bit/pixel

! Notes of USB Device

- This unit supports USB flash memory/ external HDD formatted in FAT16, FAT32 and NTFS when accessing files (music, photo, movie).
- This unit can support up to 4 partitions of the USB device.
- Do not extract the USB device during operation (play, etc.).
- A USB device which requires additional program installation when you have connected it to a computer, is not supported.
- USB device: USB device that supports USB1.1 and USB2.0.
- Movie, music and photo files can be played. For details of operations on each file, refer to relevant pages.
- Regular back up is recommended to prevent data loss.
- If you use a USB extension cable, USB HUB or USB Multi-reader, the USB device may not be recognized.
- Some USB device may not work with this unit.
- Digital camera and mobile phone are not supported.
- USB Port of the unit cannot be connected to PC. The unit cannot be used as a storage device.

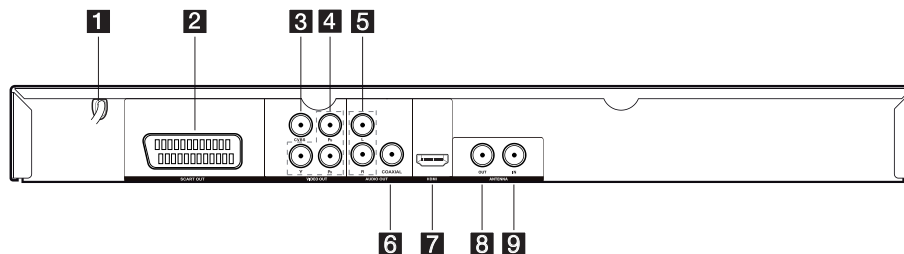
Front panel



- | | |
|---------------------------|-------------------|
| 1 Disc Tray | 5 > (Play) |
| 2 △ (Open / Close) | □ (Stop) |
| 3 Remote sensor | <</>> (Skip)* |
| 4 Display window | ⏻ (Power) |
| | 6 USB Port |

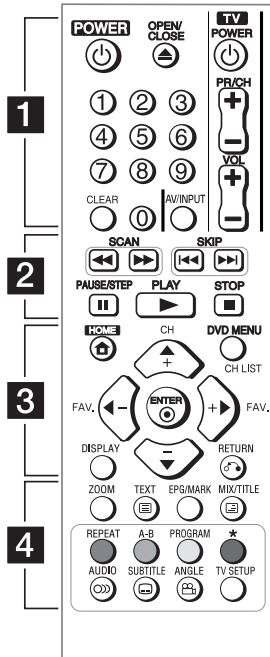
* CH(+/-): Scans up or down through memorized channels in DVB-T mode.

Rear panel



- | | |
|--|--------------------------------------|
| 1 Power cord | 6 Digital Audio Out (COAXIAL) |
| 2 SCART OUT | 7 HDMI Out |
| 3 Video Out (CVBS) | 8 ANTENNA OUT |
| 4 Component Video Out (Y Pb Pr) | 9 ANTENNA IN |
| 5 2CH Audio Out (Left/Right) | |

Remote control



..... **1**

POWER (⏻): Switches the player ON or OFF.

OPEN/CLOSE (⏮): Opens and closes the disc tray.

0-9 numerical buttons: Selects numbered options.

CLEAR: Removes a number when setting the password.

TV Control Buttons: Controls the sound volume, channel, source and power On/Off on TV.

..... **2**

SCAN (⏮/⏭): Searches backward or forward.

SKIP (⏮/⏭): Goes to the next or previous chapter/track/file.

PAUSE/STEP (⏮): Pauses playback.

PLAY (▶): Starts playback.

STOP (■): Stops playback.

..... **3**

HOME (🏠): Displays the [HOME] menu.

CH (+/-): Scans up or down through memorized channels in [DVB-T] mode.

DVD MENU: Accesses or exits the DVD menu.

CH LIST: Displays the channel list.

FAV. (+/-): Tunes to your favorite channels.

▲▼◀▶ (Direction buttons): Navigates the menus.

ENTER (⊙): Confirms menu selection.

DISPLAY: Accesses or exits On-Screen Display.

RETURN (↶): Presses to move backwards or exits the menu.

..... **4**

ZOOM: Enlarges video image in disc mode.

TEXT (≡): Switches between teletext mode and normal TV viewing.

EPG/MARK: Displays the EPG menu in DVB-T mode. Select or remove any specific track/file in PROGRAM mode.

MIX (≡) / **TITLE**: Displays the teletext pages superimposed on the TV picture. Accesses the disc's title menu in Disc mode, if available.

Color buttons: Use when tuned to a teletext program of a digital broadcast. The function of each button will be described on-screen, and changes depending on the screen being displayed.

REPEAT: Repeats a desired selection or sequence.

A-B: Repeats a section.

PROGRAM: Enters the program edit mode.

★: Works on DVB-T mode only with color key.

AUDIO (🔊): Selects an audio language or audio channel.

SUBTITLE (🗣️): Selects a subtitle language.

ANGLE (📷): Selects a DVD camera angle if it is available on the disc being played.

TV SETUP: Accesses or exits the TV SETUP menu in DVB-T mode.

Battery Installation

Remove the battery cover on the rear of the Remote Control, and insert one R03 (size AAA) battery with + and - matched correctly.

Code number to control TVs

Press the below proper number of TV maker on holding down TV POWER (⏻) and just press TV POWER (⏻). If TV is turned on or off, it is to be set. But, some or all buttons may not be operated according to TV, even though it is to be set or input the proper number.

Maker	Code Number
LG	1 (Default), 2
Zenith	1, 3, 4
GoldStar	1, 2
Samsung	6, 7
Sony	8, 9
Hitachi	4

Connecting to your TV

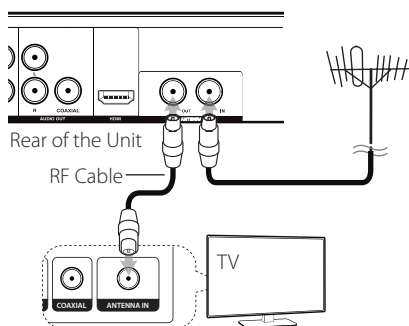
Connecting antenna

Antenna connection

Connect the Terrestrial TV antenna to the ANTENNA IN jack on the unit. If you want to use an indoor antenna, use one with a signal amplifier rated at 5V, 100mA and set [Antenna Feed 5V] to [ON]. (See "[Other]" menu in DVB-T settings on page 17.)

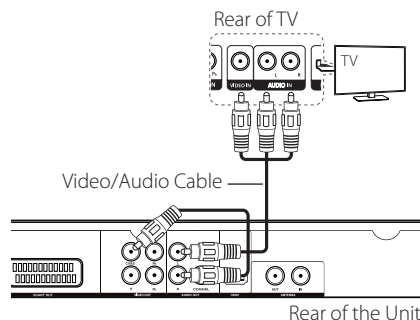
Antenna connection to your TV

Connect one end of the RF cable to ANTENNA OUT jack on the unit and other end to ANTENNA IN jack on your TV. Pass the signal from the ANTENNA IN jack to your TV/monitor.



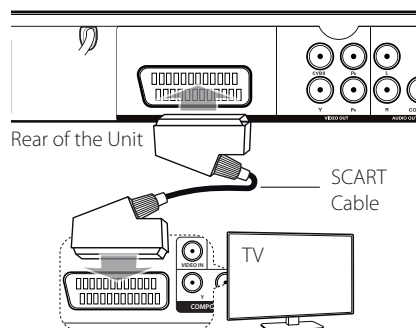
Connecting Video (CVBS) / Audio cable

Connect the VIDEO/AUDIO OUT on the unit to VIDEO/AUDIO IN on TV with AV cable, such as VIDEO with yellow, AUDIO Left/Right with white/red.



Connecting SCART cable

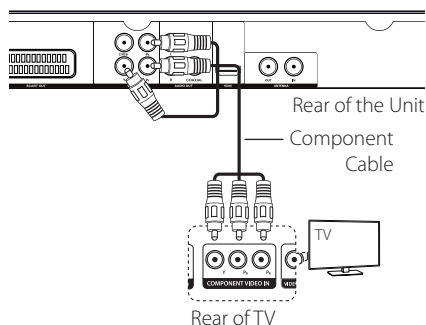
Connect the SCART OUT jack on the unit and your TV using the SCART cable.



- You must set the [TV Output Select] option to [RGB] on the setup menu to use this connection.

Connecting Component Video cable

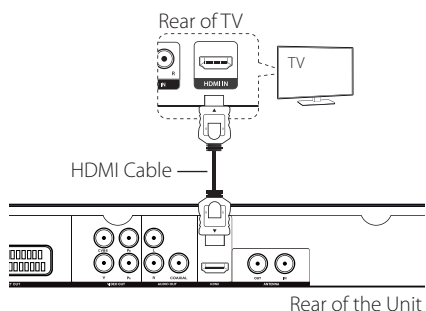
Connect the COMPONENT VIDEO OUT(Y P_B P_R) on the unit to COMPONENT VIDEO IN on TV with COMPONENT cable, such as Y with green, P_B with blue, and P_R with red.



- You must set the [TV Output Select] option to [YPbPr] on the SETUP menu to use this connection. (See page 14)
- You should still connect the AUDIO cable between the unit and TV.

Connecting HDMI cable

Connect the HDMI OUT on the unit to the HDMI IN on compatible TV with HDMI cable. (Type A, High Speed HDMI™ Cable)



Additional Information for HDMI

- When you connect a HDMI or DVI compatible device make sure of the following:
 - Try switching off the HDMI/DVI device and this unit. Next, switch on the HDMI/DVI device and leave it for around 30 seconds, then switch on this unit.
 - The connected device's video input is set correctly for this unit.
 - The connected device is compatible with 720x576i(480i), 720x576p(480p), 1280x720p, 1920x1080i or 1920x1080p video input.
- Not all HDCP-compatible HDMI or DVI devices will work with this unit.
 - The picture will not be displayed properly with non-HDCP device.
 - This unit does not playback and TV screen is changed to black screen.

Resolution Setting

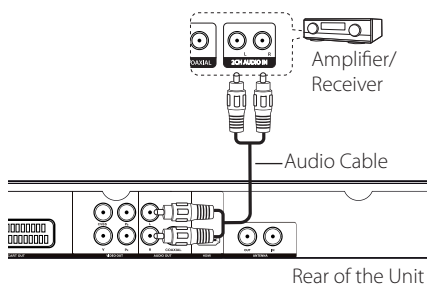
The unit provides several output resolutions for HDMI OUT and COMPONENT VIDEO OUT(Y P_B P_R) jacks. You can change the resolution using the SETUP menu.

- Depending on your TV, some of the resolution settings may result in the picture disappearing or an abnormal picture appearing. In this case, set the [Resolution] option to suitable one on the SETUP menu.
- Changing the resolution when the unit is connected with HDMI connector may result in malfunctions. To solve the problem, turn off the unit and then turn it on again.

Connecting to an Amplifier

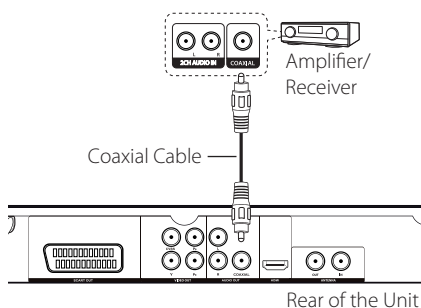
Connecting to an Amplifier via 2 Channel Audio Output

Connect the AUDIO OUT on the unit to 2CH AUDIO IN on amplifier with Audio cable, such as AUDIO Left/Right with white/red.



Connecting to an Amplifier via Digital Audio Output

Connect the COAXIAL (digital audio out) on the unit to Digital Audio IN (COAXIAL) on amplifier with COAXIAL cable.

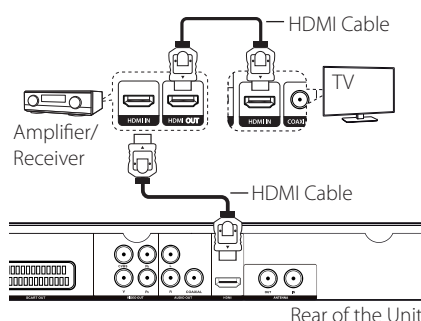


- If your TV is not capable of handling 96 kHz sampling frequency, set the [Sample Freq.] option to [48KHz] on the SETUP menu (See page 14).
- If your TV is not equipped with Dolby Digital and MPEG decoder, set the [Dolby Digital] and [MPEG] options to [PCM] on the SETUP menu (See page 14).

Connecting to an Amplifier via HDMI Output

Connect the HDMI OUT on the unit to the HDMI IN on amplifier with HDMI cable.

Connect the HDMI OUT jack on amplifier to HDMI IN jack on TV with HDMI cable, if the amplifier has HDMI OUT jack.



General about digital broadcast

Picture and sound

Digital TV is a transmission technology that replaces the traditional analogue technique.

This means that several TV channels, radio channels and other digital services can be transmitted on the same space as just one channel took up before. As a consumer you get access to many more channels and services than before at the same time as they are received with perfect picture and audio quality.

Coverage

Before buying this product it is anticipated that you have made sure that there are digital transmissions covering your region.

Antenna / Signal source

Depending on the reception your unit may be connected to a simple indoor antenna or to an existing outdoor antenna system. If you live in a flat you should make sure that the digital terrestrial signals are distributed to your wall antenna outlet. If you have your own antenna system you must make sure that it is equipped with antennas, filter and/or amplifier that can handle those frequencies that the digital channels are transmitted on.

Cable-TV

Please observe that this unit is not designed for the reception of regular digital cable-TV signals (QAMsignal). Despite this, operators of smaller cable networks may have chosen to distribute the digital terrestrial signals (COFDM-signal) in the network. In this case this unit may well be used. Check with your landlord if you are insecure about what type of TV-signal that is provided in the wall antenna outlet.

Setup

When the unit is turned-on at the first time, you have to select the desired language. (optional)

Adjust the settings

You can change the settings of the player in the SETUP menu.

1. Press HOME (🏠).
2. Select [SETUP] using ◀▶ and press ENTER (⊙).
3. Select the first setup option using ▲▼, and press ▶ to move to the second level.
4. Select a second setup option using ▲▼, and press ENTER (⊙) to move to the third level.
5. Select a desired setting using ▲▼, and press ENTER (⊙) to confirm.

[Language] Menu

Menu Language/Disc Menu/Disc Audio/Disc Subtitle

Select and set the language you prefer.

[Audio] Menu

Set the player's Audio options according to various disc output type you use.

Dolby Digital / DTS / MPEG

Set the unit's Audio options according to various disc output type you use.

[Bitstream]: Select to connect COAXIAL jack to an amplifier with Dolby Digital, DTS or MPEG decoder.

[PCM] (for Dolby Digital / MPEG): Select to connect COAXIAL jack to an amplifier without Dolby Digital or MPEG decoder.

[Off] (for DTS): Select to connect COAXIAL jack to an amplifier without DTS decoder.

Sample Freq. (Frequency)

Selects the sampling frequency of the audio signal between [48KHz] and [96KHz].

DRC (Dynamic Range Control)

Make the sound clear when the volume is turned down (Dolby Digital only). Set to [On] for this effect.

[Video] Menu

TV Aspect

Select and set TV aspect ratio according to your TV type and preference.

[4:3]: Standard TV type

[16:9]: Wide TV type

Display Mode

Select and set Display Mode according to your preference. Display Mode works only when the TV Aspect mode is 4:3.

[Panscan]: Display full screen with cut non-main scene on TV.

[Letterbox]: Display wide screen with black stripe at top and bottom on TV.

TV System

Select [NTSC] or [PAL] according to your region.

Resolution

Select and set the output resolution of the Component and HDMI video signal as 576i(480i), 576p(480p), 720p, 1080i, 1080p, Auto.

TV Output Select

Select an option according to the TV connection type.

[RGB]: When your TV is connected with the SCART OUT jack.

[YPbPr]: When your TV is connected with the COMPONENT VIDEO OUT jack on the unit.

[Slide] Menu

Select and set the Transition mode and Interval Time of sliding on photo mode you prefer or appropriate.

[Parental control] Menu

Press ► and enter the 4-digit password.

Rating

Rate the level from 1(Kids) to 8 (Adult).

Change Password

Enter the 4-digit password twice to create new password.

If you forget the password

Remove the disc, select Parental control, press ► and input "210499". Then the "CLEAR" appears on the Display window of the unit. And the password will be cleared.

Area Code

To input the standardized area code refer to the Area Code List on page 23.

[Other] Menu

DivX(R) VOD

ABOUT DIVX VIDEO: DivX® is a digital video format created by DivX, LLC, a subsidiary of Rovi Corporation. This is an official DivX Certified® device that plays DivX video. Visit divx.com for more information and software tools to convert your files into DivX videos.

ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

Factory Set

You can reset the unit to its original default setting.

B.L.E (Black Level Expansion)

Select On or Off to expand the black level or not. It just operates when TV system is set to NTSC.

DVB-T settings

When the first time to enter [DVB-T], the "First time installation" menu will appear. Select [Yes] and press ENTER (⊙) for auto channel scanning. (see "Auto Scan" below for details)

Adjust the DVB-T Settings

1. Press HOME (⬅).
2. Select [DVB-T] using ◀▶ and press ENTER (⊙).
3. Press TV SETUP.
4. Select the first setup option using ▲▼, and press ▶ to move to the second level.
5. Select a second setup option using ▲▼, and press ENTER (⊙) to move to the third level.
6. Select a desired setting using ▲▼, and press ENTER (⊙) to confirm.

[Channel Setting] menu

Country

Use ▲▼ to select a country where you operate this unit and press ENTER (⊙) to complete.

Manual Scan

Input your desired channel number using numerical buttons to find and store the channel. Then press ENTER (⊙) to complete. To move backward, press RETURN (↶).

Auto Scan

Automatically finds all channels available, and stores them in memory on the channel list.

Clear Channels

Clears all channels from the channel list. After doing this, the "First time installation" menu appears for auto channel scanning when selecting DVB-T mode.

[Channel List] menu

TV / Radio

Displays the TV or Radio channel list and allows you to edit the channel list. Refer to the table below.

[Favorite]: This option allows you to set favorite channels. Use ▲▼ to select your desired channel and press the red colored buttons. (shows icon ♥ on the right side of the selected channel.)

[Lock/Unlock]: This option allows that you lock certain unsuitable channels to prevent children from accessing them. Use ▲▼ to select your desired channel and press the green colored button. If you want to watch a locked channel, you have to input the password.

[Delete]: This option allows you to delete preset channels from the channel list. Use ▲▼ to select your desired channel and press the yellow colored button. Then select [Yes] to confirm your selection using ◀▶ and ENTER (⊙).

[Move]: This option allows you to change the usual order of preset channels. Use ▲▼ to select your desired channel and press the blue colored button. Then input the number of the location using numerical buttons or ▲▼. Press ENTER (⊙) to complete move.

Favorite

Displays the favorite channels what you set up in the TV / Radio channel list and allows you to edit the Favorite channel list.

Locked

Displays the locked channels what you set up in the TV / Radio channel list and allows you to edit the Locked channel list.

[Other] Menu

Time Zone

Set the channel that broadcasts a clock signal and the clock will be set automatically. If the time that has been automatically set is not correct when compared your local time, you can set additional time option. Select an option relative to GMT.

Antenna Feed 5V

If you are using an indoor antenna, use one with a signal amplifier rated at DC 5 V, 100 mA and set this option to [ON].

[ON]: Power is supplied to the connected antenna.

[OFF]: The unit does not supply power to the connected antenna.

OTA (Over the Air)

Your unit is able to keep the built-in digital tuner up to date with the latest software. The unit does it automatically at regular interval. While the unit is in updating, there may have a disruption in reception for a few hours. The reception should return to normal after the update is complete. This unit must be plugged into AC power to receive updates. Do not unplug your unit while an update is in progress. The update is not available during viewing Teletext or EPG menu.

[ON]: Updates the software when this unit is turned on.

[OFF]: Select this if you do not want to do not use this function.

DVB-T Rating

Blocks TV programs that you or your family may not wish to watch, based on the rating scheme set. Select a rating then press ENTER (⏏).

[6 Years] - [18 Years]: Rating [6 Years] is the most restrictive and rating [18 Years] is the least restrictive.

[None]: Permits all programs.

Displaying the channel information

Press DISPLAY to display the information of the channel you are watching.



1 Indicates channel number, name, the present time and channel signal strength(at far right).

2 Indicates present/next station's airtime and title.

Changing the Channel

Use CH (+/-) on the remote control to change the channel in memory directly.

Use FAV. (+/-) to switch into favorite channels. To add or delete favorites, see the "[Channel List] menu" on page 16.

Changing the Channel with Channel list

Press CH LIST. The channel list appears.



You can control the channel list by pressing the buttons below:

▲▼ Selects a desired channel.

◀▶ Selects between TV and Radio.

The digital EPG

About the digital EPG

The digital EPG shows a table of scheduled digital TV programs and detailed information about individual program. The digital EPG screen consists of program information, channel list and general program list.

Note that the unit's clock must be set to the correct time and date to ensure all relevant EPG information is displayed.



Using the digital EPG

1. Press HOME (⬆).
2. Select [DVB-T] using ◀▶ and press ENTER (⊙).
3. Press EPG/MARK to display the EPG menu.
4. Use ▲▼◀▶ to see program information and press ENTER (⊙) to reserve a program.

Viewing Teletext service

Teletext is a free broadcasting service by some TV stations which give up-to-the-minute information on news, weather, television programs, share prices and many other topics.

The unit gives you to access teletext pages which are greatly improved in various aspects such as text and graphics. This teletext can be accessed by special teletext services and specific services which broadcast teletext.

In DVB-T mode, use numerical buttons or CH (+/-) on the remote control to change the channel which broadcasts teletext. Press TEXT to access Teletext.

Follow the indications on Teletext. Use ▲▼◀▶ to move onto the next or previous step and other pages. Press TEXT (≡) or RETURN (↵) to turn the teletext off and return to TV viewing.



Selecting a teletext page

Enter a desired page number as a three digit number with numerical buttons. (shows at the top of the screen.) If you input a wrong number, you must complete a three digit number and then enter the correct page number again.

On-Screen display

DVD MOVIE

You can display and adjust various information on-screen about the loaded disc and USB Device.

1. Press DISPLAY to show various playback information.
2. Select an available content pressing **▲▼◀▶**.
3. Use numerical buttons to adjust the selected content value.
4. Press DISPLAY to escape from playback information.

Time 00:01:48	Elapsed playing time/total playback time
Title 01/22	Current title number/total number of title (DVD)
Track 04/04	Current track number/total number of files (MOVIE)
Chapter 01/02	Current chapter number/total number of chapter (DVD)
Format MPEG	Codec type of playback content (MOVIE)
Audio 1.ENG DD 2 ch	Audio language on playback
Audio 1. MPEG1 1 ch	
Type DVD	File type of playback content
Type AVI	
File DVD Video	File format of playback content
File File 01.avi	
Resolution 720 x 480	Resolution of playback content
Subtitle Off	Subtitle on playback
Angle 1/1	Angle on playback (DVD)

General Playback

Playing a Disc

1. Press **▲**, and place a disc on the disc tray.
2. Press **▲** to close the disc tray.
For the most Audio CDs and DVD discs, playback starts automatically.
3. Press HOME (**🏠**).
4. Select [DISC] using **◀▶** and press ENTER (**⊙**).

Playing a file on USB device

1. Connect a USB device.
2. Press HOME (**🏠**).
3. Select [USB] using **◀▶** and press ENTER (**⊙**).
4. Select a file using **▲▼** and press **▶** or ENTER (**⊙**) to play the file.

Watching DVB-T

1. Press HOME (**🏠**).
2. Select [DVB-T] using **◀▶** and press ENTER (**⊙**).
3. Use **▲▼** to select a desired channel.

! Note

- Dolby Digital Plus is supported only in DVB-T.
- If you enter DVB-T mode while the disc playback is on resume stop, the resume playback will not work.

General operation

To	Do this
Playback	Press ►
Pause	Press II
Stop	Press ■
Skip to the next or previous	Press ◀◀ or ▶▶ during playback.
Fast / slow playback forward or backward	Press ◀◀ or ▶▶ during playback.
Resume playback	Press ■ during playback to save the stopped point. <ul style="list-style-type: none"> Press ■ once: Displayed II■ on the screen (Resume Stop) Press ■ twice: Displayed ■ on the screen (Complete Stop)
Playback disc or USB device with several kinds of files	Select the proper menu by continuously pressing MIX/TITLE as MUSIC, PHOTO, and MOVIE.
Screen Saver	The Screen Saver operates when unit let leave for 5 minutes on Stop. Press any buttons to deactivate it.
Last Scene Memory	This unit can memorize and play the lastly viewed scene even if disc is inserted again after removal or unit is turned on after off with same disc. (DVD/ACD only)

Advanced Playback

Movie **DVD** **MOVIE**

To	Do this
Display disc menu	Press DVD MENU (DVD Only)
Play repeatedly	Press REPEAT during playback. Press REPEAT repeatedly. <ul style="list-style-type: none"> DVD: CHAPTER/ TITLE /OFF MOVIE: TRACK/ALL/OFF
Repeat a specific portion	Press A-B to beginning and end points desired repeatedly. To return to normal playback, Press A-B again to return to normal playback.
Set the desired starting time of playback	Press DISPLAY during playback. Select the elapsed Time. Set the desired starting time of playback using numerical buttons, and then press ENTER. For example, set "02:10:20" to start at 2 hours, 10 minutes, and 20 seconds.
Watch an enlarged scene	Press ZOOM repeatedly during playback or pause mode. Use ▲▼◀▶ to move the enlarged picture. <ul style="list-style-type: none"> ZOOM rate: x2/x3/x4
Play frame-by-frame	Press II during playback and press II repeatedly.
Select the proper subtitle code on Movie file	Press and hold SUBTITLE for 3 seconds during playback. The language code will be appeared. Select properly displayed subtitle by pressing ◀▶ and, press ENTER.
Slow down the playing speed (Forward only)	While the playback is paused, press ▶▶ repeatedly to play various speeds of slow motion. Press PLAY (►) to continue play at normal speed.

Music **ACD** MUSIC

To	Do this
Play repeatedly	Press REPEAT during playback. Press REPEAT repeatedly. <ul style="list-style-type: none"> • [1] (REPEAT ONE) / [ALL] (REPEAT ALL) / REPEAT OFF
Create or delete your own program	Insert Audio CD and press PROGRAM on stop mode. Select the desired one or more files or tracks by pressing MARK. If you want to delete the undesired lists or all lists, press MARK or PROGRAM on stop mode.
Listen to music during slide show	Press DVD MENU during music playback and select the PHOTO mode. And then, press ENTER.

Photo **PHOTO**

To	Do this
View the Photo information	Press the DISPLAY to see the contained file information, [Type], [File], [Camera], [Resolution], and [Date].
Rotate a photo	Press ▲▼ to rotate the photo counterclockwise or clockwise while displaying a photo in full screen.
Watch an enlarged Photo	During slide show, press ZOOM repeatedly to select zoom mode. <ul style="list-style-type: none"> • ZOOM rate: x2/x3/x4 • ▲▼◀▶: Move through the zoomed photo
Adjust the transition mode and interval time of slide show	Go to Slide menu in SETUP and select the desired transition mode and the Interval time. <ul style="list-style-type: none"> • [Transition mode]: None, Slide, Stripes, Fade, Wipe, Random • [Interval time]: 5/10/30/60 seconds

Troubleshooting

Symptom	Cause	Solution
No power	The power cord is disconnected.	Plug the power cord.
The unit does not start playback.	An unplayable disc is inserted.	Insert a playable disc. (Check the disc type and regional code.)
	The rating level is set.	Change the rating level.
The remote control does not work properly.	The remote control is not pointed at the remote sensor on the unit.	Point the remote control at the remote sensor of the unit.
	The remote control is too far from the unit.	Operate the remote control closer to the unit.
Poor picture quality and sound distortion	Fingerprints and dust are stained on the disc.	Wipe the disc from the center to out with a clean cloth. Do not use strong solvents (alcohol, benzine, thinner, commercially available cleaners)
No picture	The TV is not set to receive the signal from the unit.	Select the appropriate video input mode on the TV.
	The video cable is not connected securely	Connect the video cable securely.
	The TV does not accept the resolution that is set on the unit.	It can be changed using the resolution of SETUP menu.
No sound	The equipment connected with the audio cable is not set to receive the signal from the unit.	Select the correct input mode of the audio amplifier.
	The AUDIO options are set to the wrong position.	Set the AUDIO settings to the correct position.

Area Code List

Choose an area code from this list.


Area	Code	Area	Code	Area	Code	Area	Code
Afghanistan	AF	Fiji	FJ	Monaco	MC	Singapore	SG
Argentina	AR	Finland	FI	Mongolia	MN	Slovak Republic	SK
Australia	AU	France	FR	Morocco	MA	Slovenia	SI
Austria	AT	Germany	DE	Nepal	NP	South Africa	ZA
Belgium	BE	Great Britain	GB	Netherlands	NL	South Korea	KR
Bhutan	BT	Greece	GR	Antilles	AN	Spain	ES
Bolivia	BO	Greenland	GL	New Zealand	NZ	Sri Lanka	LK
Brazil	BR	Hong Kong	HK	Nigeria	NG	Sweden	SE
Cambodia	KH	Hungary	HU	Norway	NO	Switzerland	CH
Canada	CA	India	IN	Oman	OM	Taiwan	TW
Chile	CL	Indonesia	ID	Pakistan	PK	Thailand	TH
China	CN	Israel	IL	Panama	PA	Turkey	TR
Colombia	CO	Italy	IT	Paraguay	PY	Uganda	UG
Congo	CG	Jamaica	JM	Philippines	PH	Ukraine	UA
Costa Rica	CR	Japan	JP	Poland	PL	United States	US
Croatia	HR	Kenya	KE	Portugal	PT	Uruguay	UY
Czech Republic	CZ	Kuwait	KW	Romania	RO	Uzbekistan	UZ
Denmark	DK	Libya	LY	Russian Federation	RU	Vietnam	VN
Ecuador	EC	Luxembourg	LU	Saudi Arabia	SA	Zimbabwe	ZW
Egypt	EG	Malaysia	MY	Senegal	SN		
El Salvador	SV	Maldives	MV				
Ethiopia	ET	Mexico	MX				

Language Code List

Use this list to input your desired language for the following initial settings: [Disc Menu], [Disc Audio] and [Disc Subtitle].

Language	Code	Language	Code	Language	Code	Language	Code
Afar	6565	French	7082	Lithuanian	7684	Sindhi	8368
Afrikaans	6570	Frisian	7089	Macedonian	7775	Singhalese	8373
Albanian	8381	Galician	7176	Malagasy	7771	Slovak	8375
Amharic	6577	Georgian	7565	Malay	7783	Slovenian	8376
Arabic	6582	German	6869	Malayalam	7776	Spanish	6983
Armenian	7289	Greek	6976	Maori	7773	Sudanese	8385
Assamese	6583	Greenlandic	7576	Marathi	7782	Swahili	8387
Aymara	6588	Guarani	7178	Moldavian	7779	Swedish	8386
Azerbaijani	6590	Gujarati	7185	Mongolian	7778	Tagalog	8476
Bashkir	6665	Hausa	7265	Nauru	7865	Tajik	8471
Basque	6985	Hebrew	7387	Nepali	7869	Tamil	8465
Bengali; Bangla	6678	Hindi	7273	Norwegian	7879	Telugu	8469
Bhutani	6890	Hungarian	7285	Oriya	7982	Thai	8472
Bihari	6672	Icelandic	7383	Panjabi	8065	Tonga	8479
Breton	6682	Indonesian	7378	Pashto, Pushto	8083	Turkish	8482
Bulgarian	6671	Interlingua	7365	Persian	7065	Turkmen	8475
Burmese	7789	Irish	7165	Polish	8076	Twi	8487
Byelorussian	6669	Italian	7384	Portuguese	8084	Ukrainian	8575
Chinese	9072	Japanese	7465	Quechua	8185	Urdu	8582
Croatian	7282	Kannada	7578	Rhaeto-Romance	8277	Uzbek	8590
Czech	6783	Kashmiri	7583	Rumanian	8279	Vietnamese	8673
Danish	6865	Kazakh	7575	Russian	8285	Volapük	8679
Dutch	7876	Kirghiz	7589	Samoan	8377	Welsh	6789
English	6978	Korean	7579	Sanskrit	8365	Wolof	8779
Esperanto	6979	Kurdish	7585	Scots Gaelic	7168	Xhosa	8872
Estonian	6984	Laotian	7679	Serbian	8382	Yiddish	7473
Faroese	7079	Latin	7665	Serbo-Croatian	8372	Yoruba	8979
Fiji	7074	Latvian, Lettish	7686	Shona	8378	Zulu	9085
Finnish	7073	Lingala	7678				

Specifications

Power requirements	AC 200 - 240 V, 50/60 Hz
Power consumption	14.5 W
Dimensions (W x D x H)	Approx. (430 x 233 x 51) mm
Net Weight (Approx.)	1.9 kg
Operating temperature	0 °C to 35 °C
Operating humidity	5 % to 90 %
Television system	DVB-T Standard Compliant
Laser	Semiconductor laser
Signal system	PAL / NTSC
Bus Power Supply (USB)	5 V  500 mA
ANTENNA IN	Antenna input, 75 Ω
CVBS (Video Out)	1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1
Component Video Out	(Y) 1.0 V (p-p), 75 Ω, sync negative, RCA jack x 1, (Pb)/(Pr) 0.7 V (p-p), 75 Ω, RCA jack x 2
RGB Out (SCART)	Video: Composite, RGB
	Audio: Analog
HDMI Out (Video/Audio)	19 pin (Type A, HDMI™ Connector)
Audio Out	2.0 Vrms (1 kHz, 0 dB), 600 Ω, RCA jack (L, R) x 1
Digital Audio Out (COAXIAL)	0.5 V (p-p), 75 Ω, RCA jack x 1

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