

# User Guide

This is a 「User Guide」 installed on the TV.

The contents of this guide are subject to change without prior notice for quality improvement.

## ❏ To view programme information

Press **INFO** button.

Displays information on current programme and/or current time, etc.

## ❏ To set favourite programmes

SETTINGS ⇒ SETUP → Programme Edit

- 1 Select the channel you want.
  - 2 Press the **FAV** button to select **Favourite Group** and then **OK**.
- 🖱 You can check your favourite channels by pressing the **LIST** button on the remote control.

## ❏ To use Favourite

Press the **FAV** button.

You can only view the channels you set as favourites.

Press **GUIDE** button.

[In Digital mode only]

Obtains information about programmes and airtime. Checks the broadcasting time of the desired programme and schedule viewing.

# ❏ Automatically Setting Up Programme

SETTINGS ⇒ SETUP → Auto Tuning

Automatically tunes the programmes.

- 1 Select Country where the TV is used. Programme settings change depending on the country you choose. (Depending on country)
  - 2 Initiate Auto Tuning.
  - 3 Set Auto Tuning following screen instructions.
- ✎ If Input Source is not connected properly, programme registration may not work.
  - ✎ Auto Tuning only finds programmes that are currently broadcasting.
  - ✎ If Lock System is turned on, a pop-up window will appear asking for password.

## ❏ To use Manual Tuning

SETTINGS ⇒ SETUP → Manual Tuning

Adjusts programmes manually and saves the results.

For digital broadcasting, signal strength and signal quality can be checked.

✎ You can also adjust the frequency(KHz) and bandwidth.

## ❏ To edit programmes

SETTINGS ⇒ SETUP → Programme Edit

Edits the saved programmes.

Set as favourite programme, block/unblock programme, skip programme etc. of the selected programme.

Press **TEXT** button.

[depending on the country]

Teletext is a free service provided by the TV station that offers text-based information about TV programmes, news and weather.

The teletext decoder of this TV can support the SIMPLE, TOP and FASTEXT systems.

- Colour button: To select the preceding or following page.
- Number button: Enters the desired page number.
- **P**  : To select the preceding or following page.



## ❏ Special Teletext Function

Press **T. OPT** button.

Select the **Text Option** menu.

-  **Index** : Select each index page.
-  **Time** : When viewing a TV programme, select this menu to display the time at the top right hand corner of the screen.
-  **Hold** : Stops the automatic page change which will occur if a teletext page consists of 2 or more sub pages.

-  **Reveal** : Select this menu to display concealed information, such as solutions to riddles or puzzles.
-  **Update** : Displays the TV picture on the screen while waiting for a new teletext page.
- **Language** [In Digital Mode Only] : Sets Teletext language.

Press the **GUIDE** button.

[Depending on Country] [In Digital mode Only]

This system has an MHEG (Multimedia and hypermedia information coding expert group) to help your navigation through all the possible viewing options.

SETTINGS ⇒ OPTION → Data Service

[Depending on country]

This function allows users to choose between MHEG (Digital Teletext) and Teletext if both exist at the same time.

If only one of them exists, either MHEG or Teletext is enabled regardless of which option you selected.

## SETTINGS ⇒ PICTURE → Aspect Ratio

Selects the screen aspect ratio.

- **16:9**: Resizes images to fit the screen width.
- **Just Scan**: Displays video images in the original size without removing parts of the edge of the image.
  - ✎ In DTV, Component, HDMI, and DVI (over 720p) mode, **Just Scan** is available.
- **Original**: When your TV receives a wide screen signal it will automatically change to the picture format broadcasted.

- **Full Wide:** When TV receives the wide screen signal, it will let you adjust the picture horizontally or vertically, in a linear proportion, to fill the entire screen fully. 4:3 and 14:9 video is supported in full screen without any video distortion through DTV input.  
 In DTV mode, **Full Wide** is available.
- **4:3:** Resizes images to the previous standard 4:3.
- **14:9:** You can view a picture format of 14:9 or a general TV programme in the 14:9 mode. The 14:9 screen is viewed in the same way as in 4:3, but is moved up or down.
- **Zoom:** Resizes images to fit the screen width. The top and bottom parts of the image may be cut off.

- **Cinema Zoom:** Choose Cinema Zoom when you want to enlarge the picture in correct proportion.

- ✎ While viewing an external device, these cases may result in image burn:
  - a video with stationary caption (such as network name)
  - 4 : 3 aspect ratio mode for an extended period

Take caution when using these functions.

- ✎ Available picture size may differ depending on the input signal.
- ✎ The screen aspect ratios on HDMI-PC or RGB-PC input are available in 4:3 and 16:9 only. (Only for models supporting PC connection)

[Depending on model]

Press the **AV MODE** button.

Sets the best PICTURE / AUDIO optimized for different AV modes.

- **Off**: Operates with the value set in the PICTURE / AUDIO Menu.
- **Cinema**: Optimizes picture and audio settings for movies.
- **Game**: Optimizes picture and audio settings for games.



## ❑ To adjust picture with Picture Wizard

SETTINGS ⇒ PICTURE → Picture Wizard II

Calibrates and adjusts for optimum picture quality using the remote control and the Picture Wizard without expensive pattern devices or help from a specialist.

Follow the instructions on screen to obtain optimum picture quality.

## ❏ To select Picture Mode

SETTINGS ⇒ PICTURE → Picture Mode

Selects the picture mode optimized for the viewing environment or the programme.

- **Eco**: The Energy Saver feature changes settings on the TV to reduce power consumption.
-  **Expert**: Menu for adjusting picture quality that allows experts and amateurs to enjoy the best TV viewing. This is the adjustment menu provided for ISF-certified picture tuning professionals. (ISF logo can only be used on ISF-certified TVs.)

ISFccc: Imaging Science Foundation Certified Calibration Control

- ✎ Depending on input signal, available range of picture modes may differ.
- ✎  **Expert** mode is for picture tuning professionals to control and fine-tune using a specific image. For normal images, the effects may not be dramatic

## ❏ To fine-tune picture mode

SETTINGS ⇒ PICTURE → Picture Mode → Backlight / Contrast / Brightness / Sharpness / Colour / Tint / Colour Temp.

First select a Picture Mode of your choice.

- **Backlight:** Adjusts the display brightness by varying the brightness of the LCD panel.
- ✎ Depending on the input signal or other picture settings, the range of detailed items for adjustment may differ.

## ❏ To set advanced control

SETTINGS ⇒ PICTURE → Picture Mode → Advanced Control / Expert Control

Calibrates the screen for each picture mode; or adjusts picture settings for a special screen. First select a **Picture Mode** of your choice.

- **Dynamic Contrast**: Adjusts the contrast to the optimal level according to the brightness of the image.
- **Dynamic Colour**: Adjusts colours to make the image appear in more natural colours.

- **Skin Colour**: Sets Skin colour spectrum separately to implement the skin colour as defined by the user.
- **Sky Colour** : Sky colour is set separately.
- **Grass Colour** : Natural colour spectrum (meadows, hills, etc.) can be separately set.
- **Gamma**: Sets the gradation curve according to the output of picture signal in relation to the input signal.

- **Colour Gamut:** Selects the range of colours that can be expressed.
- **Edge Enhancer:** Shows clearer and distinctive yet natural edges of the video.
- **Expert Pattern:** Patterns used for expert adjustment
- **Colour Filter:** Filters a specific colour spectrum in RGB colours to fine-tune colour saturation and hue accurately.

- **Colour Temperature:** Adjusts the overall tone of the screen as desired. In Expert mode, detailed fine-tuning can be set via Gamma method, etc.
  - **Colour Management System:** This is a system that experts use when they adjust colour with a test pattern. They can select from six colour areas (Red / Green / Blue / Cyan / Magenta / Yellow) without affecting other colours. For normal images, adjustments may not result in noticeable colour changes.
-  Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.



## ❏ To set additional picture options

SETTINGS ⇒ PICTURE → Picture Mode → Picture Option

Adjusts detailed setting for images.

- Noise Reduction : Eliminates noise in the picture.
- MPEG Noise Reduction : Eliminates noise generated while creating digital picture signals.
- Black Level : Adjusts the brightness and contrast of the screen to suit the black level of the input picture by using the blackness (black level) of the screen.

- **Real Cinema** : Helps keep the screen in optimal condition.
  - **Motion Eye Care** : [Depending on model] Saves power consumption by adjusting the brightness corresponding to the movement of the image on the screen.
-  Depending on input signal or other picture settings, the range of detailed items for adjustment may differ.

## ❏ To reset picture settings

SETTINGS ⇒ PICTURE → Picture Mode → Picture Reset

Resets picture settings that the user customizes.

Each picture mode is reset. Select the picture mode you wish to reset.

## SETTINGS ⇒ PICTURE → Energy Saving

Reduces power consumption by adjusting screen brightness.

- Off : Turns off Energy Saving mode.
- Minimum / Medium / Maximum : Applies the pre-set Energy Saving mode.
- Screen Off : Screen is turned off and only sound is played. Press any button except Power button on the remote control to turn the screen back on.

## ❏ To use Sound Mode

SETTINGS ⇒ AUDIO → Sound Mode

Adjusts TV audio to an optimal level according to a selected sound mode.

- Standard : Suitable for all types of video.
- Music / Cinema / Sport / Game : Sets audio optimized for a specific genre.

## ❏ To adjust User Setting function

SETTINGS ⇒ AUDIO → Sound Mode → User Setting

Adjusts the volume to a level of your choice using the User EQ.

- Reset : Resets voice options that the user has changed.

❏ To use TV speaker

SETTINGS ⇒ AUDIO → Sound Out → TV Speaker

Sound is output through the TV speaker.

## ❏ To use External Speaker

SETTINGS ⇒ AUDIO → Sound Out → External Speaker (Optical)

[Only available for models with an optical port]

Sound is output through the speaker connected to the optical port.

✎ SimpLink is supported.

## □ To use Digital Sound Out

SETTINGS ⇒ AUDIO → Sound Out → External Speaker (Optical) → Digital Sound Out

[Depending on model]

Sets up Digital Sound Out.

| Item | Audio Input        | Digital Audio output |
|------|--------------------|----------------------|
| Auto | MPEG               | PCM                  |
|      | Dolby Digital      | Dolby Digital        |
|      | Dolby Digital Plus | Dolby Digital        |
| PCM  | All                | PCM                  |



## ❏ To connect and use LG audio device

SETTINGS ⇒ AUDIO → Sound Out → LG Sound Sync (Optical)

[Only available for models with an optical port]

Connect LG audio device with the  logo to the optical digital audio output port.

LG audio device allows you to enjoy rich powerful sound easily.

## ❏ To use Headphone

SETTINGS ⇒ AUDIO → Sound Out → Headphone

[Only available for models with an earphone/headphone port]

Sound is output through the headphone connected to the earphone/headphone port.

- ✎ If you connect headphones while the TV is powered on, it automatically detects the headphones and sounds through them.

## ❏ To set Virtual Surround mode

SETTINGS ⇒ AUDIO → Virtual Surround

LG's proprietary audio processing technology allows 5-channel-like surround sound from two speakers.

✎ If Clear Voice II is set to On, Virtual Surround will not be selected.

## ❏ To adjust Clear Voice II function

SETTINGS ⇒ AUDIO → Clear Voice II

Boosts audio clarity from the TV.

## ❑ To set Auto Volume

SETTINGS ⇒ AUDIO → Auto Volume

Auto Volume to On. Varying volume output from channel to channel is automatically adjusted for convenient TV watching when clicking through different programme.

## ❑ To synchronize audio and video

SETTINGS ⇒ AUDIO → AV Sync. Adjust

Synchronizes video and audio directly when they do not match.

If you set AV Sync. Adjust to ON, you can adjust the sound output (TV speakers or SPDIF) to the screen image.

## ❏ To adjust audio balance

SETTINGS ⇒ AUDIO → Balance

Adjusts left/right audio balance.

## ❏ To use Sound Optimizer function

SETTINGS ⇒ AUDIO → Sound Optimizer

optimized sound for custom TV installation.

[Depending on model]

- Normal: General sound mode.
- Wall Mount Type: Optimizes sound for a wall-mounted TV.
- Stand Type: Optimizes sound for a stand-mounted TV.

## ❏ DTV Audio Setting

SETTINGS ⇒ AUDIO → DTV Audio Setting

[Depending on model]

When an input signal comprises different audio signals, this function allows you to select the audio type you want.

If set to **AUTO**, the search order is Dolby Digital+ → Dolby Digital → MPEG and output is produced in the first Audio Format found.

- ✎ In Italy / Latvia / Lithuania only, the search order is Dolby Digital+ → MPEG → Dolby Digital.
- ✎ If the selected Audio Format is not supported, another Audio Format may be used for output.

## ❏ To select external input

Press **INPUT** button.

Selects external input.

✎ Edit the device name: You can edit the name of the external device connected to the external input port.

## ❏ To use SIMPLINK

SIMPLINK is a feature that enables you to control and manage various multimedia devices conveniently using only the TV remote control via the SIMPLINK menu.

- 1 Connect the TV's **HDMI IN** terminal and the SIMPLINK device's HDMI output terminal using an HDMI cable.
  - [Depending on model] For home theatre units with a SIMPLINK function, connect HDMI terminals as above, and use an optical cable to connect Optical Digital Audio Out from the TV to Optical Digital Audio In of the SIMPLINK device.
- 2 Select **INPUT** ⇒ **SimpLink**. SIMPLINK menu window appears.
- 3 In SIMPLINK Setting window, sets SIMPLINK function to **ON**.
- 4 In SIMPLINK menu window, selects the device you want to control.



- ✎ This function is only compatible with devices with the SIMPLINK logo.
- ✎ To use the SIMPLINK function, you need to use a high-speed HDMI® cable (with CEC (Consumer Electronics Control) feature added). High-speed HDMI® cables have the No. 13 pin connected for information exchange between devices.
- ✎ If you switch to another input, the SIMPLINK device will stop.
- ✎ If a third-party device with the HDMI-CEC function is also used, the SIMPLINK device may not work normally.
- ✎ [Depending on model] If you select or play media from a the device with a home theatre function, the **HT Speaker** is automatically connected. Be sure to connect with an optical cable (sold separately) to use the **HT Speaker** function.

## □ SIMPLINK function description

- Direct Play: Plays the multimedia device on the TV instantly.
- Select multimedia device: Selects the desired device via the SIMPLINK menu to control it from the TV screen instantly.
- Disc playback: Manages the multimedia device with the TV remote control.
- Power off all devices: When you power off the TV, all connected devices are turned off.
- Sync Power on: When the equipment with SIMPLINK function connected HDMI terminal starts to play, the TV will automatically turn on.
- Speaker: [Depending on model] Select speaker either on the home theatre unit or the TV.

## ❏ To use Sleep Timer

SETTINGS ⇒ TIME → Sleep Timer

Turns off the TV after a preset number of minutes.

To cancel the Sleep Timer, select Off.

## ❏ To set current time

SETTINGS ⇒ TIME → Clock

Checks or changes the time while watching TV.

- **Auto** : Synchronizes the TV clock to the digital time information sent by the TV station.
- **Manual** : Sets the time and date manually if the auto setup does not correspond to the current time.

❑ To set the TV to turn on and off automatically

SETTINGS ⇒ TIME → On Time / Off Time

Sets On / Off time.

Select Off on Repeat to discontinue On Time / Off Time.

✎ To use On Time / Off Time, set the current time correctly.

✎ Even when the On Time function is on, the TV will turn off automatically in 120 minutes when no button is pressed within that time.

## ❏ To set Automatic Standby

SETTINGS ⇒ TIME → Automatic Standby

[Depending on model]

If you do not press any button on the TV or remote control for a certain period, the TV will automatically switch to standby mode.

✎ This function does not work on Store Demo mode or while software update.

## ❏ To set password

SETTINGS ⇒ LOCK → Set Password

Sets or changes TV password.

✎ The initial password is set to 「0000」.

When France is selected for Country, password is not 「0000」 but 「1234」.

When France is selected for Country, password cannot be set to 「0000」.

## ❏ To lock system

SETTINGS ⇒ LOCK → Lock System

Locks the selected channel or external input.

First set Lock System to On.

- **Block Programme** : Blocks programmes with content inappropriate for children. Programmes can be selected but the screen is blank and the audio is muted. To watch a locked programme, enter the password.



- **Parental Guidance** : This function operates according to information from the broadcaster. Therefore if the signal has incorrect information, this function does not operate. Prevents children from watching certain adult TV programmes according to the ratings limit set. Enter a password to watch a blocked programme. Ratings differ by country.
- **Input Block** : Block the input sources.

## ❏ To use Key Lock

SETTINGS ⇒ LOCK → Key Lock

Locks control buttons on TV.

- ✎ Key Lock function remains intact even in case of power outage or when the power cord is removed from the wall socket.
- ✎ Key Lock function can only be set by remote control, and not by the button on the TV.
- ✎ Even though Key Lock is set to ON, TV's buttons can turn on the power.

## SETTINGS ⇒ OPTION → Language

You can select the language of the menu displayed on the screen and the digital sound broadcasting.

- **Menu Language** : Selects a language for the display text.
- **Audio Language [In Digital mode Only]** : Selects the desired language when watching digital broadcasting containing several voice languages.
- **Subtitle Language [In Digital mode Only]** : Use the Subtitle function when two or more subtitle languages are broadcast.
  - 📖 If subtitle data in a selected language is not broadcast, the default language subtitle will be displayed.

- **Text Language** [In Digital mode Only] : Use the Text language function when two or more Text languages are broadcast.
  - ✎ If teletext data in a selected language is not broadcast, the default Text language will be displayed.
  - ✎ If you select the wrong local country, teletext may not appear correctly on the screen and some problems may occur during teletext operation.

## SETTINGS ⇒ OPTION → Country (Depending on country)

Sets the country that the TV uses.

TV settings are changed according to the broadcast environment of the selected country.

- ✎ If the country setting is changed, the **Auto Tuning** information screen may appear.
- ✎ In a country that Digital broadcasting regulation isn't fixed, some DTV functions may not work depending on digital broadcasting circumstances.
- ✎ If the country setting is set to "--", only the analog channels can set.

## ❏ To set Hard of Hearing

SETTINGS  $\Rightarrow$  OPTION  $\rightarrow$  Hard of Hearing

This function is used for the hearing impaired.

If it is set to on, the subtitle is displayed by default.

## ❏ To set Power Indicator

SETTINGS ⇒ OPTION → Standby Light

Turns the standby light in the front panel of the TV on/off.

## ❏ To specify Factory Reset

SETTINGS ⇒ OPTION → Factory Reset

All stored information is deleted and TV settings are reset.

TV turns itself off and back on, and all settings are reset.

- ✎ When Lock System is in place, a pop-up window appears and asks for password.
- ✎ Do not turn off the power during initialization.



## ❏ To change TV mode

SETTINGS ⇒ OPTION → Mode Setting

Selects Home Use or Store Demo.

When in use in home, please select Home Use.

Store Demo mode is for store display.

## ❏ To view 3D images

3D imaging is a technology that utilizes the slight difference between the left and right eyes to make images on TV look just like real-life three-dimensional space.

- 1 Play a 3D image title or turn to a 3D channel.
- 2 Put on 3D glasses.
- 3 Press **3D** button to change to 3D imaging.
- 4 To end 3D image viewing, press the **3D** button on the remote control while viewing 3D images.

## ❏ To adjust details of 3D images

Press the **3D OPTION** button.

Changes 3D image viewing options.

- **3D Picture Correction** : Flips left/right images. Select a better 3D screen.
- **3D Depth** : Adjusts depth between an object and its surroundings.
- **3D Viewpoint** : Adjusts 3D depth between an object and its surroundings by moving the 3D image screen back and forth.

## ❏ Viewing 3D images - warning

- ✎ When viewing 3D images, it is recommended that you maintain a distance of at least twice the screen's diagonal length.
- ✎ 3D images may not be viewed correctly with shutter-type glasses that require recharging.
- ✎ If a future 3D broadcasting format that is not supported by this TV becomes the standard, you may require an additional device such as a set-top box.

## ❏ Using 3D glasses - warning

- ✎ Do not use the 3D glasses as a replacement for your own corrective glasses, sunglasses, or protective goggles. Incorrect use of 3D glasses may cause eye injuries.
- ✎ Do not store 3D glasses in extreme conditions. Exposure to excessively high or low temperatures may deform the lenses. Do not use deformed glasses.
- ✎ Do not apply pressure to 3D glasses or subject them to any impact. Subjecting 3D glasses to rough handling may damage them.
- ✎ The lenses on 3D glasses (with polarizing film) are vulnerable to scratches. Use only a soft and clean cloth for cleaning. A dirty cloth may scratch the polarizing film.
- ✎ Do not scratch the lens surface of the 3D glasses with sharp objects or clean with chemicals. If the lens surface is scratched, 3D images may not display correctly.

Plays content stored on a USB device (external HDD, USB memory stick) directly on the TV, easily and conveniently.

## ❑ To connect a USB device

Connect the USB storage device to the TV's **USB IN** terminal.

The connected USB storage device can be used immediately.

## ❑ To remove the USB device

**Q.MENU** ⇒ **USB Device**

Select a USB storage device that you want to remove.

When you see a message that the USB device has been removed, separate the device from the TV.

✎ Once a USB device has been selected for removal, it can no longer be read. Remove the USB storage device and then re-connect it.

## ❏ Using a USB storage device - warning

- ✎ If the USB storage device has a built-in auto recognition program or uses its own driver, it may not work.
- ✎ Some USB storage devices may not work or may work incorrectly.
- ✎ Use only USB storage devices formatted with the Windows FAT32 or NTFS File System.
- ✎ For external USB HDDs, it is recommended that you use devices with a rated voltage of less than 5 V and a rated current of less than 500 mA.

- ✎ It is recommended that you use USB memory sticks of 32 GB or less and USB HDDs of 1 TB or less.
- ✎ If a USB HDD with power-saving function does not work properly, turn the power off and on. For more information, refer to the user manual of the USB HDD.
- ✎ Data in the USB storage device can be damaged, so be sure to back up important files to other devices. Data maintenance is the user's responsibility and the manufacturer is not responsible for data loss.



## ❏ To use My Media

SETTINGS ⇒ MY MEDIA → All Media / Movie List / Photo List / Music List

Selects a file from the list. Displays the file that you choose.

Sets play related settings by checking option during disk playback.

## ❏ To set up My Media

SETTINGS ⇒ OPTION → DivX(R) VOD

- **Registration** : Checks DivX Reg. Code for replaying DivX protected videos. Register at <http://vod.divx.com>. Use Reg. Code to rent or purchase movies at [www.divx.com/vod](http://www.divx.com/vod).
  - ✎ Rented/purchased DivX files cannot be played if the DivX Registration Code of a different device is used. Use only the DivX Registration Code granted to this specific device.
  - ✎ Converted files not conforming to the DivX Codec Standard may not play or may produce abnormal sound.
- **Deregistration** : Deregisters DivX.

## ❏ My Media supporting file

Maximum data transfer rate:

20 Mbps (megabits per second)

External subtitle formats supported:

\*.smi, \*.srt, \*.sub (MicroDVD, SubViewer 1.0/2.0), \*.ass, \*.ssa, \*.txt (TMPlayer), \*.psb (PowerDivX)

Internal subtitle formats supported:

XSUB (supports internal subtitles generated from DivX6)

## □ Available video file

Maximum: 1920 x 1080 @30p (only Motion JPEG 640x480 @30p)

.asf, .wmv

[Video] VC-1 Advanced Profile, VC-1 Simple and Main Profiles, MP43

[Audio] WMA Standard

.3gp, .3gp2

[Video] H.264/AVC, MPEG-4 Part2

[Audio] AMR(NB/WB)

.divx, .avi

[Video] DivX3.11, DivX4, DivX5, DivX6, XViD, H.264/AVC, Motion JPEG

[Audio] MPEG-1 Layer I, II, Dolby Digital, MPEG-1 Layer III (MP3). \*DTS

.mp4, .m4v, .mov

[Video] H.264/AVC, MPEG-4 Part 2, XViD

[Audio] MPEG-1 Layer III (MP3)

.mkv

[Video] H.264/AVC, XViD, MPEG-4 Part2

[Audio] Dolby Digital, MPEG-1 Layer III (MP3), \*DTS

.ts, .trp, .tp, .mts, .m2ts

[Video] H.264/AVC, MPEG-2

[Audio] MPEG-1 Layer I, II, MPEG-1 Layer III (MP3), Dolby Digital,  
Dolby Digital Plus

.vob

[Video] MPEG-1, MPEG-2

[Audio] Dolby Digital, MPEG-1 Layer I, II, DVD-LPCM

.mpg, .mpeg, .mpe

[Video] MPEG-1

[Audio] MPEG-1 Layer I, II

\*DTS : Depending on model

## □ Available music file

File type : mp3

[Bit rate] 32 Kbps - 320 Kbps

[Sample freq.] 16 kHz - 48 kHz

[Support] MPEG1, MPEG2, Layer2, Layer3

File Type : M4A

[Bit rate] Free Format

[Sample freq.] 8 kHz ~ 48 kHz

[Support] MPEG-4

File Type : OGG

[Bit rate] Free Format

[Sample freq.] ~ 48 kHz

[Support] Vorbis

File Type : WMA

[Bit rate] 128 kbps ~ 320 kbps

[Sample freq.] 8 kHz ~ 48 kHz

[Support] WMA7, 8, 9 Standard

File Type : WMA 10 Pro

[Bit rate] ~ 768 kbps

[Channel / Sample freq.]

- M0 : Up to 2 / 48 kHz

- M1 : Up to 5.1 / 48 kHz

- M2 : Up to 5.1 / 96 kHz

[Support] WMA 10 Pro

## □ Available photo file

Category : 2D(jpeg, jpg, jpe), 3D(jps)

[Available file type] SOF0: baseline,  
SOF1: Extend Sequential,  
SOF2: Progressive

[Photo size] Minimum: 64 x 64

Maximum: Normal Type: 15360 (W) x 8640 (H)

Progressive Type: 1920 (W) x 1440 (H)

Category : 3D (mpo)

[Available file type] mpo

[Photo size] 4:3 size: 3,648 x 2,736 / 2,592 x 1,944 / 2,048 x 1,536

3:2 size: 3,648 x 2,432



## Category : BMP

[Photo size] Minimum : 64 x 64  
Maximum : 9600 x 6400

## Category : PNG

[Available file type] Interlace, Non-Interlace  
[Photo size] Minimum : 64 x 64  
Maximum : Interlace : 1200 x 800  
Non-Interlace : 9600 x 6400

✎ BMP and PNG format files may be slower to display than JPEG.

## ❏ Items to note when playing videos

- ✎ Some subtitles created by users may not work properly.
- ✎ The video and subtitle files should be placed in the same folder. For subtitles to display correctly, the video and subtitle files must have the same name.
- ✎ We do not support any stream that contains GMC (Global Motion Compensation) or Qpel (Quarterpel Motion Estimation).
- ✎ Only H.264/AVC profile level 4.1 and lower is supported.
- ✎ Video files that exceed 50 GB (gigabyte) are not supported for playback. The file size limit is dependent on the encoding environment.
- ✎ The DTS is supported only for playback of USB and HDMI video files [depending on the model].
- ✎ The DTS support may vary depending on your country and model. For more information, refer to 「Quick Guide」 provided with the product.

If the following symptoms occur, please carry out the checks and adjustments described below. There may be no malfunction.

## ❏ Operational problems

☑ Cannot view certain programmes.

- Adjust the location or orientation of the antenna.
- Save the programmes you wish to view using **Auto Tuning** or **Programme Edit**.

☑ There is a delay after the TV is switched on before the image is fully visible.

- This is normal. Any delay is due to an image deletion process which cleans up image noise that may occur when the TV is first switched on.

## ❏ Image problems

SETTINGS ⇒ Customer Support → Picture Test

Run an Picture Test first to verify that the image signal output is normal.

If there is no problem with the test image, check connected external devices and the broadcast signal.

- ☑ Images from previous programme or other programmes linger or the screen displays annoying lines.
  - Adjusts the orientation of the antenna to the TV transmitter, or refer to the manual for instructions on connecting the antenna.

- ☑ Vibrating horizontal /vertical lines and fishnet patterns appear momentarily.
  - Such a problem may happen when there is strong electronic interference. Turn off other electronic devices such as mobile phones, power tools and other small electrical appliances.
  
- ☑ The screen display freezes or does not work properly during a digital broadcast.
  - This may occur in case of a weak signal or unstable reception. Adjust the antenna orientation and cable connections.
  - If the signal strength or quality is low on **Manual Tuning**, check with the TV station or administration office.

- ☑ Digital broadcasting is not available even though the cable is connected.
  - Check with the cable operator providing your subscription and/or signal. (Depending on your subscription, digital broadcasting may not be supported.)
- ☑ The display is inactive or unclear when connected to an HDMI® source.
  - Check the HDMI® cable specifications. If your HDMI® cable is not genuine, images may fade in and out or not be displayed properly.
  - Ensure that all cables are securely connected. When connections are not secure, images may not be properly displayed.
- ☑ Does not work with a USB storage device.
  - Verify that the USB device and cable is version 2.0 or higher.

## ❏ Sound problems

SETTINGS ⇒ Customer Support → Sound Test

Run a Sound Test first to verify that the sound signal output is normal.

If there is no problem with the test sound, check connected external devices and the broadcast signal.

☑ Screen display is on but there is no sound.

- Check other TV programmes.
- [Depending on model] Ensure the TV Speaker is set to On.

- ☑ For an analogue broadcast, stereo is not clear or sound comes from one speaker only.
  - In a poor reception area (areas with weak or unstable signals) or if Multi Audio is not stable, select **Mono** on **Multi Audio**.
  - Adjust the **Balance** using the Navigation Button.
- ☑ TV sound is not in sync with the image or the sound breaks up occasionally.
  - If the issue affects a specific TV programme only, it may be caused by problems with the broadcast signal for the individual station. Check with the TV station or your cable operator.



- ☑ The volume changes when I change programme.
  - Volume can vary from programme to programme.
  - Set **Auto Volume** to **On**.
  
- ☑ On certain programmes, there is no sound at all, or only the background music can be heard (in case of a programme created for overseas viewers).
  - In Language, set **Language** → **Audio Language** to the language of your choice. Even if you change the language on **Multi Audio**, you can go back to the default setup once you turn off the power or change the programme.

- ☑ There is no sound when connected to an HDMI® / USB source.
- Make sure that the HDMI® cable is high speed.
  - Check that the USB device and cable is version 2.0 or higher.
  - Use only regular music (\*.mp3) files.

## ❑ PC connection problem (Only for models supporting PC connection)

- ☑ The screen display does not come on after connecting to the computer.
  - Make sure that the computer and the TV are securely connected.
  - Check whether the resolution is correctly set for PC input.
  - To use the TV as a secondary monitor, check if the connected desktop or laptop supports dual monitor display.
- ☑ There is no sound after connecting the computer with the HDMI cable.
  - Check with manufacturer of your video card to ensure it supports HDMI voice output. (Video cards in DVI format require connection of a separate sound cable.)

☑ When connected to the computer, the display is partially cut off or shifts to one side.

- Set the resolution to support PC input.  
(If this does not work, reboot the computer.)

## ❏ Problems replaying movies in My Media

✓ I cannot view the files on the **Movie List**.

- Check whether the file on the USB storage device can be read on a computer.
- Check whether the file extension is supported.

✓ The file is invalid. The above error message appears. Sound, video or subtitles is not normal.

- Make sure that the file replays normally on the computer's video player. (Check for damaged files.)
- Check if My Media can support the selected file.

✎ For information on requesting service, refer to the following menu.

**SETTINGS** ⇒ **Customer Support** → **Product/Service Info**.