

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 program information

Press 節目資訊 button.

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

❑ To set favorite channels

選單 ⇒ SETUP → Channel Edit

- 1 Press the 簡易選單 button on Channel Edit screen and select Favorite Group.
- 2 Select the desired channel.
- 3 Please press 喜愛頻道 button. The selected channels are saved as favorite channels.

❑ To use Favorites

Press 喜愛頻道 button.

Favorite list will appear. Select the desired preset favorite channel from Favorite List A-D.

Press 節目導覽 button.

[In Digital mode only]

Obtains information about programs and airtime. Checks the broadcasting time of the desired program and scheduled viewing.

❏ To set up the channels automatically

選單 ⇒ SETUP → Auto Tuning

Memorizes automatically the channels being broadcast.

- ✎ The channels will not be memorized properly if the antenna/cable is not installed correctly.
- ✎ Auto Tuning memorizes the channels that are currently being broadcast.
- ✎ If Lock System is turned on, a pop-up window will appear asking for password.

❑ To set up the channels at manually

選單 ⇒ SETUP → Manual Tuning

Adjusts channels manually and saves the results.

For digital broadcasting, signal strength, etc. can be checked.

❏ To edit the channels


選單 ⇒ SETUP → Channel Edit

Edits the saved channels.


選單 ⇒ PICTURE → Aspect Ratio

Selects the screen aspect ratio.

- **16:9**: Resizes the image ratio to fit 16:9 screen.
- **Just Scan**: Displays high-quality image without loss.
 - ✎ 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 broadcast.

- **Full Wide:** When TV receives the wide screen signal, it will lead you to 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 with-out any video distortion through DTV input.
 In DTV mode, **Full Wide** is available.
- **4:3:** Resizes the image ratio to fit 4:3 screen.
- **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 the image to fit the screen width. The top and bottom parts of the image may be cut off.


- **Cinema Zoom:** Formats an image to the cinemascope ratio (2.35:1) and zooms in on the ratio.

 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.

 At HDMI-PC or RGB-PC input, select the image ratios of 4:3 and 16:9.
(Only for models supporting PC connection)

[Depending on model]

Press **AV 模式** button.

Optimizes the TV's Picture/Audio for different AV modes.

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

❑ To adjust pictures with Picture Wizard

選單 ⇒ PICTURE → Picture Wizard II


This function calibrates and adjusts for optimum picture quality with the remote control and the Picture Wizard without expensive pattern devices or help from a specialist.

Follow the instructions on the screen to obtain the optimum picture quality.


❑ To select Picture Mode

選單 ⇒ PICTURE → Picture Mode

Select the picture mode optimized for the viewing environment or the program.

- **Eco/APS:** [Depending on country] 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 menu for adjustment is 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 drastic.

❏ To fine-tune picture mode

選單 ⇒ PICTURE → Picture Mode → Panel Light / Contrast / Brightness / Sharpness / Color / Tint / Color Temp.

First select a Picture Mode of your choice.

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

❑ To set advanced control

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


For each picture mode, screen can be calibrated; or for a special screen, picture settings can be adjusted.

Select the desired Picture Mode.

- **Dynamic Contrast:** Adjusts the contrast to the optimal level according to the image's brightness.
- **Dynamic Color:** Adjusts colors to make the image appear in more natural colors.

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

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

- **Color Temperature:** Adjusts the overall tone of the screen as desired. In Expert mode, detailed fine-tuning can be set via Gamma method, etc.
 - **Color Management System:** This system is used by experts to adjust color with a test pattern. They can select from six color areas (Red/ Green/Blue/ Cyan/Magenta/Yellow) without affecting other colors. For normal images, adjustments may not result in noticeable color 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:** Reduces screen noise in the video.
- **MPEG Noise Reduction:** Eliminates noise generated while creating digital picture signals.
- **Black Level:** Adjusts the screen's brightness and contrast to fit them to the input picture's black level by using the blackness (black level) of the screen.
- **Real Cinema:** Helps maintain the optimal state of the screen.
- **Motion Eye Care:** [Depending on model] Saves power consumption by adjusting the brightness corresponding to the movement of the image on the screen.

❑ To initialize picture settings

選單 ⇒ PICTURE → Picture Mode → Picture Reset

Initializes picture settings that the user customizes.

Each picture mode is reset. Select the desired picture mode to reset.

選單 ⇒ PICTURE → Energy Saving

Saves electric power by adjusting screen brightness.

- Off : Turns off the Energy Saving.
- Minimum/Medium/Maximum : Applies the pre-set Energy Saving.
- 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

選單 ⇒ 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

選單 ⇒ AUDIO → Sound Mode → User Setting

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

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

❑ To use TV speaker

選單 ⇒ AUDIO → Sound Out → TV Speaker

Sound is output through the TV speaker.

❑ To use External Speaker

選單 ⇒ 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

選單 ⇒ 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
	HE-AAC	Dolby Digital
PCM	All	PCM

❑ To connect and use LG audio device

選單 ⇒ 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 set Virtual Surround mode

選單 ⇒ 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

選單 ⇒ AUDIO → Clear Voice II

Boosts audio clarity from the TV.

❑ To set Auto Volume

選單 ⇒ AUDIO → Auto Volume

Sets Auto Volume to ON and volume output from channel to channel is automatically adjusted for convenient TV watching when clicking through different channels.

❑ To synchronize audio and video

選單 ⇒ 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

選單 ⇒ AUDIO → Balance

Adjusts left/right audio balance.

❑ To use Sound Optimizer function

選單 ⇒ 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

選單 ⇒ 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 HE-AAC → Dolby Digital+ → Dolby Digital → MPEG and output is produced in the first Audio Format found.

- ✎ In Italy / Latvia / Lithuania only, the search order is HE-AAC → 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 輸入 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 controls and manages multimedia devices conveniently with the TV remote control through the SIMPLINK menu.

- 1 Connect TV' **HDMI IN** terminal and SIMPLINK device's HDMI output terminal using HDMI cable.
 - [Depending on model] For home theater units with 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 **輸入** ⇒ **SimpLink**. SIMPLINK menu window appears.
- 3 In SIMPLINK Setting window, set SIMPLINK function to **ON**.
- 4 In SIMPLINK menu window, select the device to control.

- ✎ This function is only compatible with devices having the SIMPLINK logo.
- ✎ To use SIMPLINK function, use high-speed HDMI® cable (with CEC (Consumer Electronics Control) feature added). High-speed HDMI® cable has No. 13 pin connected for information exchange between devices.
- ✎ When changing to another input, the SIMPLINK device stops.
- ✎ If a third-party device with HDMI-CEC support is added, the SIMPLINK device may not work normally.
- ✎ [Depending on model] When selecting or playing the media of the device with home theater function, **HT Speaker** is automatically connected. Be sure to connect with Optical cable (sold separately) to use **HT Speaker** function.

□ SIMPLINK function description

- Direct Play : Plays the multimedia device on the TV instantly.
- Select multimedia device : Selects the desired device through SIMPLINK menu and control the device 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] Selects either home theater unit or TV speaker.

❏ To use Sleep Timer

選單 ⇒ TIME → Sleep Timer

Turns off the TV after a prescribed number of minutes.

To deactivate the Sleep Timer, select Off.

❏ To set current time

選單 ⇒ 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 turn on/off the TV

選單 ⇒ TIME → On Time / Off Time

Sets On/Off time.

To deactivate the On Time/Off Time function, select Off on Repeat.

- ✎ To set On Time / Off Time, set the current time correctly.
- ✎ When the TV is turned on using the On Time function, it will be turned off automatically if no buttons are touched within 120 minutes.

❏ To set password

選單 ⇒ LOCK → Set Password

Sets or changes TV password.

✎ The initial password is set as 「0000」.

❏ To lock system

選單 ⇒ LOCK → Lock System

Permits only specific programs by blocking channels or external input.

At first, select Lock System to ON.

- Block Channel : Blocks specific channels that are harmful to children.
✎ To turn to the locked channel, enter password.
- Input Block : Blocks the selected input.

❏ To use Key Lock

選單 ⇒ 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 with Key Lock ON, TV's buttons can turn on the power.

選單 ⇒ OPTION → Language

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

❑ To set Hard of Hearing

選單 ⇒ OPTION → Hard of Hearing

This function is used for the hearing impaired.

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

❏ To change TV mode

選單 ⇒ 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 use the ISM Method

選單 ⇒ OPTION → ISM Method

This function removes image sticking which is caused by prolonged display of static images.

- **Normal:** Minimizes image sticking by gradually lowering the brightness when displaying static images and by increasing the brightness when displaying moving images.
- **Orbiter:** Minimizes image sticking by fine-moving images left, right, up or down every 2 minutes.

- **Color Wash:** Removes image sticking by moving every pixel in a certain pattern on the screen for a specific period of time. Please use this function to remove temporary image sticking.
- ✎ Image sticking is commonly known in plasma TV when it displays static images for a long time. **ISM Method** delays the image sticking effect; it does not completely prevent the phenomenon. Please use this function with caution.

❑ To return to initial settings

選單 ⇒ OPTION → Factory Reset

Returns to initial default mode by deleting all optional setup.

Once initialization is completed, the TV will turn off and on by itself.

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

Easily and Conveniently replays content stored on USB (external HDD, USB Memory) directly on TV.

❑ To connect a USB device

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

The connected USB storage device is available for immediate use.

❑ To remove the USB device

簡易選單 ⇒ **USB Device**

Select a USB storage device and remove it.

Once the message that the USB device was removed is displayed, remove the device from the TV.

✎ After selecting to remove USB device, the USB storage Device cannot be read.
Remove the USB storage device and then reconnect it.

❏ Warning when using USB storage devices

- ✎ USB storage devices with a built-in auto recognition program or its own driver may not work.
- ✎ Some USB storage devices may not work or may work improperly.
- ✎ Use only those USB storage devices formatted with FAT32 or NTFS File System provided by Windows.
- ✎ For external USB HDD, use devices with less than 5V-rated voltages and 500 mA-rated current.

- ✎ It is recommended to use USB Memory Stick with 32 GB or less and USB HDD with 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 USB HDD.
- ✎ Data in the USB storage device can be damaged so back up important files in other devices. Data maintenance is the user's responsibility. The manufacturer is not responsible for data loss.

❏ To use My Media

選單 ⇒ MY MEDIA → Movie List / Photo List / Music List

Select desired file from the list. Watch the chosen file.

Playback settings can be changed while the file is playing.

❏ My Media supporting file

Maximum data transfer rate:

20 Mbps (Mega bit per second)

External supported subtitle formats:

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

Internal supported subtitle formats:

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

[Audio] WMA Standard

.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)

.mp4, .m4v, .mov

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

[Audio] AAC, MPEG-1 Layer III (MP3)

.mkv

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

[Audio] HE-AAC, Dolby Digital, MPEG-1 Layer III (MP3)

.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, AAC

.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

□ Available music file

File type : mp3

[Bit rate] 32 Kbps - 320 Kbps

[Sample freq.] 16 kHz - 48 kHz

[Support] MPEG1, MPEG2, Layer2, Layer3

□ Available photo file

Category : 2D(jpeg, jpg, jpe)

[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)

❏ Video Replay Issues

- ✎ Some subtitles created by users may not work properly.
- ✎ The video and subtitle files should be placed in the same folder. Assign the same names to the video and subtitle files for proper display.
- ✎ Streams containing GMC (Global Motion Compensation) or Qpel (Quarter pixel Motion Estimation) are not supported.
- ✎ Only H.264/AVC profile levels 4.1 and lower are supported.
- ✎ Video files that exceed 50 GB (Gigabyte) are not supported for playback. The file size limit is dependent on the encoding environment.

選單 ⇒ Customer Support → Software Update

Uses Software Update to check and obtain the latest version. If not updated, certain functions may not work properly.

- **Software Update** : Set it to **On**. When an update file is detected, the file is automatically downloaded. When the file download is complete, the software update window appears.
- ✎ Changing the channel while downloading the software via digital broadcast signal interrupts the download process. Returning to the initial channel allows downloading to resume.
- ✎ If software is not updated, certain functions may not work properly.

If the following symptoms occur, recheck the system. It may not be malfunction.

❑ Operational problem

☑ Cannot view certain channels.

- Adjust the location or orientation of the antenna.
- Save the desired viewing channels on **Auto Tuning** or **Channel Edit**.

☑ After turning on the TV, there is a delay before full images appear.

- This is normal because an image deletion process was inserted to clean up image noises that may occur immediately after the power is turned on.

❑ Image problem

選單 ⇒ Customer Support → Picture Test

Conducts Picture Test first to verify that image signal output is normal.

When the test image is normal, check connected external devices or broadcast signal.

- ☑ Images from the previously viewed channel or other channels linger on the screen shows annoying lines.
 - Adjust the antenna to the direction of the TV station or refer to the manual for proper way to connect 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 digital broadcast.
 - It may happen when the signals are weak or the reception is unstable. Adjust the antenna's orientation or cable connections.
 - If the signal strength or quality is low on **Manual Tuning**, contact the TV station or administration office for checkup.

- ☑ Digital broadcast cannot be seen though the cable is connected.
 - Verify subscription and/or signal with cable operator.
(Depending on the subscription, digital broadcasting may not be supported.)
- ☑ Display is not on or unclear when connected to HDMI.
 - Check the HDMI® cable specifications. Failure to use genuine HDMI® cable may cause images to fade in and out or not be displayed properly.
 - Verify that all cable connections are securely connected. When connections are not secure, images may not be properly displayed.
- ☑ Does not work when connected to USB storage device.
 - Verify that the USB device and cable is version 2.0 or higher.

❑ Sound problem

選單 ⇒ Customer Support → Sound Test

Try Sound Test to verify that sound signal output is normal.

When the test sound is normal, check connected external devices or broadcast signal.

☑ Screen display is on but no sound.

- Check other TV channels.
- [Depending on model] Make sure the TV Speaker is set to On.

- ✓ For analog broadcast, stereo is not clear or sound comes from one speaker only.
 - In a poor reception area (areas with weak or unstable signal) or if multi audio is unstable, select **Mono** on **Audio**.
 - Adjust the **Balance** with the Navigation Button.
- ✓ TV sound is not in sync with the lips or the sound breaks up occasionally.
 - If it occurs only with a certain TV channel, that station's broadcast signal may have a problem. Check with the TV station or your cable operator.

- ☑ Each channel's volume is different.
 - Depending on the channel, there can be differences in volume.
 - Please set **Auto Volume** to **On**.

- ☑ On certain channels, sound does not come out or only the background music plays. (If it is a program created for overseas viewers)
 - On Language, set **Language** → **Audio Language** to the desired language. Changes to the language on **Audio** may returned to the default setup by turning off the power or changing the channel.

- ☑ There is no sound when connected to HDMI/USB.
 - Verify 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 is not on after connecting to the computer.
 - Check that the computer and TV are securely connected.
 - Check if the resolution is correctly set for PC input.
 - To use the TV as a secondary monitor, check that the connected desktop or laptop supports dual monitor displays.
- ☑ There is no sound after connecting the computer with the HDMI cable.
 - Check with the video card manufacturer to ensure it supports HDMI voice output. (Video cards manufactured 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 up the resolution supporting PC input.
(If it does not work, reboot the computer.)

❏ Problem with replaying movies in My Media

- ☑ I cannot view the files on the Movie List.
 - Check if the file on the USB storage device can be read on a computer.
 - Check that the file extension is supported.
- ☑ This is not a file that is supported. The above error message appears. Sound, video or subtitles is not normal.
 - Make sure that the file replays normally on the video player in the computer. (Check for damaged files.)
 - Check if My Media can support selected file.
- ✎ For information on requesting service, refer to the TV's menu.
選單 ⇒ Customer Support → Product/Service Info.