TOSHIBA

OPERATING INSTRUCTIONS

43/50/55/65/70 QG5E Series

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Safety Information



CAUTION

RISK OF ELECTRIC SHOCK



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

In extreme weather (storms, lightning) and long inactivity periods (going on holiday) disconnect the TV set from the mains

The mains plug is used to disconnect TV set from the mains and therefore it must remain readily operable. If the TV set is not disconnected electrically from the mains, the device will still draw power for all situations even if the TV is in standby mode or switched off.

Note: Follow the on screen instructions for operating the related features.

IMPORTANT - Please read these instructions fully before installing or operating

WARNING: This device is intended to be used by persons (including children) who are capable / experienced of operating such a device unsupervised, unless they have been given supervision or instruction concerning the use of the device by a person responsible for their safety.

- Use this TV set at an altitude of less than 5000 metres above the sea level, in dry locations and in regions with moderate or tropical climates.
- The TV set is intended for household and similar indoor use but may also be used in public places.
- For ventilation purposes, leave at least 5cm of free space around the TV.
- The ventilation should not be impeded by covering or blocking the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.
- The power cord/plug should be easily accessible. Do not place the TV, furniture, etc. on the power cord. A damaged power cord/plug can cause fire or give you an electric shock. Handle the power cord by the plug, do not unplug the TV by pulling the power cord. Never touch the power cord/plug with wet hands as this could cause a short circuit or electric shock. Never make a knot in the power cord or tie it with other cords. When damaged it must be replaced, this should only be done by qualified personnel.
- Do not expose the TV to dripping or splashing of liquids and do not place objects filled with liquids, such as vases, cups, etc. on or over the TV (e.g. on shelves above the TV).

- Do not expose the TV to direct sunlight or do not place open flames such as lit candles on the top of or near the TV.
- Do not place any heat sources such as electric heaters, radiators, etc. near the TV set.
- Do not place the TV on the floor or inclined surfaces.
- To avoid danger of suffocation, keep plastic bags out of the reach of babies, children and domestic animals.
- Carefully attach the stand to the TV. If the stand is provided with screws, tighten the screws firmly to prevent the TV from tilting. Do not over-tighten the screws and mount the stand rubbers properly.
- Do not dispose of the batteries in fire or with hazardous or flammable materials.

WARNING

- Batteries must not be exposed to excessive heat such as sunshine, fire or the like.
- Excessive sound pressure from earphones or headphones can cause hearing loss.

ABOVE ALL - NEVER let anyone, especially children, push or hit the screen, push anything into holes, slots or any other openings in the TV.

A Caution	Serious injury or death risk
Risk of electric shock	Dangerous voltage risk
⚠ Maintenance	Important maintenance component

Markings on the Product

The following symbols are used on the product as a marker for restrictions and precautions and safety instructions. Each explanation shall be considered where the product bears related marking only. Note such information for security reasons.



Class II Equipment: This appliance is designed in such a way that it does not require a safety connection to electrical earth.



Hazardous Live Terminal: The marked terminal(s) is/are hazardous live under normal operating conditions.



Caution, See Operating Instructions: The marked area(s) contain(s) user replaceable coin or button cell batteries.



Class 1 Laser Product: This product contains Class 1 laser source that is safe under reasonably foreseeable conditions of operation.

WARNING

Do not ingest the battery, Chemical Burn Hazard This product or the accessories supplied with the product may contain a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention

A television may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- ALWAYS use cabinets or stands or mounting methods recommended by the manufacturer of the television set.
- ALWAYS use furniture that can safely support the television set.
- ALWAYS ensure the television set is not overhanging the edge of the supporting furniture.
- ALWAYS educate children about the dangers of climbing on furniture to reach the television set or its controls.
- ALWAYS route cords and cables connected to your television so they cannot be tripped over, pulled or grabbed.
- NEVER place a television set in an unstable location.
- NEVER place the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- NEVER place the television set on cloth or other materials that may be located between the television set and supporting furniture.
- NEVER place items that might tempt children to climb, such as toys and remote controls, on the top of the television or furniture on which the television is placed.
- The equipment is only suitable for mounting at heights ≤2 m.

If the existing television set is going to be retained and relocated, the same considerations as above should be applied.

Apparatus connected to the protective earthing of the building installation through the MAINS connection or through other apparatus with a connection to protective earthing – and to a television distribution system using coaxial cable, may in some circumstances create a fire hazard. Connection to a television distribution system has therefore to be provided through a device providing electrical isolation below a certain frequency range (galvanic isolator).

WALL MOUNTING WARNINGS

- Read the instructions before mounting your TV on the wall
- The wall mount kit is optional. You can obtain from your local dealer, if not supplied with your TV.
- Do not install the TV on a ceiling or on an inclined wall
- Use the specified wall mounting screws and other accessories
- Tighten the wall mounting screws firmly to prevent the TV from falling. Do not over-tighten the screws.

Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.

The LCD display panels are manufactured using an extremely high level of precision technology; however, sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.

The set should be operated only from a 220-240 V AC 50 Hz outlet. Ensure that the television is not standing on the mains lead. Do not cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. It should only be replaced by a correctly rated and approved type. IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

Figures and illustrations in these operating instructions are provided for reference only and may differ from the actual product appearance. Product design and specifications may be changed without notice.

Introduction

Thank you for choosing our product. You'll soon be enjoying your new TV. Please read these instructions carefully. They contain important information which will help you get the best from your TV and ensure safe and correct installation and operation.

Features

- · 4K UHD Google TV
- Android[™] operating system
- · Google Cast
- · Voice Search
- Fully integrated digital terrestrial/cable/satellite TV (DVB-T-T2/C/S-S2)
- · Ethernet (LAN) for Internet connectivity and service
- · 802.11 a/b/g/n/ac built in WLAN Support

Ultra HD (UHD)

The TV supports Ultra HD (Ultra High Definition - also known as 4K) which provides resolution of 3840 x 2160 (4K:2K). It equals 4 times the resolution of Full HD TV by doubling the pixel count of the Full HD TV both horizontally and vertically. Ultra HD content is supported via native and market applications, HDMI, some of the Over-the-Top (OTT) services, USB inputs and over DVB-T2 and DVB-S2 broadcasts.

High Dynamic Range (HDR) / Hybrid Log-Gamma (HLG)

Using this feature the TV can reproduce greater dynamic range of luminosity by capturing and then combining several different exposures. HDR/HLG promises better picture quality thanks to brighter, more realistic highlights, more realistic colour and other improvements. It delivers the look that filmmakers intended to achieve, showing the hidden areas of dark shadows and sunlight with full clarity, colour and detail. HDR/HLG content is supported via native and market applications, HDMI, USB inputs and over DVB-S broadcasts. When the input source is set to the related HDMI input press the **Menu** button and set the HDMI EDID Version option in the TV Options>Settings>Channels & Inputs>Inputs menu as EDID 2.0. EDID 2.1 or Auto EDID in order to watch HDR/HLG content, if the HDR/HLG content is received through an HDMI input. The source device should also be at least HDMI 2.0a compatible in this case.

Dolby Vision

Dolby Vision™ delivers a dramatic visual experience, astonishing brightness, exceptional contrast, and vivid colour, that brings entertainment to life. It achieves this stunning image quality by combining HDR and wide colour gamut imaging technologies. By increasing the

brightness of the original signal and using a higher dvnamic colour and contrast range, Dolby Vision presents amazing true-to-life images with stunning detail that other post-processing technologies in the TV aren't able to produce. Dolby Vision is supported via native and market applications. HDMI and USB inputs. When the input source is set to the related HDMI input press the Menu button and set the HDMI EDID Version option in the TV Options>Settings>Channels & Inputs>Inputs menu as EDID 2.0. EDID 2.1 or Auto EDID in order to watch Dolby Vision content, if the Dolby Vision content is received through an HDMI input. The source device should also be at least HDMI 2.0a compatible in this case. In the Picture Mode menu three predefined picture modes will be available if Dolby Vision content is detected: Dolby Vision Bright, Dolby Vision Dark and Dolby Vision Vivid. All allow the user to experience the content in the way the creator originally intended with different ambient lighting conditions. To change the Picture Mode setting press the Menu button while watching the Dolby Vision content and go to Picture menu. While watching Dolby Vision Content via an application, except YouTube, Netflix and Multi Media Player, you will not be able to access the Picture menu and set the Picture Mode

Stand Installation & Wall Mounting

Assembling / Removing the pedestal Preparations

Take out the pedestal(s) and the TV from the packing case and put the TV onto a work table with the screen panel down on a clean and soft cloth (blanket, etc.).

- · Use a flat and firm table bigger than the TV.
- · Do not hold the screen panel part.
- · Make sure not to scratch or break the TV.

Assembling the pedestal

- Place the pedestal(s) on the mounting pattern(s) on the rear side of the TV.
- Insert the screws provided and tighten them gently until the pedestal(s) is/are properly fitted.

Removing the pedestal from the TV

Be sure to remove the pedestal in the following way when using the wall mount bracket or repacking the TV.

- Put the TV onto a work table with the screen panel down on a clean and soft cloth. Leave the pedestal(s) protruding over the edge of the surface.
- · Unscrew the screws that fix the pedestal(s).
- · Remove the pedestal(s).

When using the wall mount bracket

Your TV is also prepared for a VESA-compliant wall mount bracket. If it is not supplied with your TV, contact your local dealer to purchase the recommended wall mount bracket.

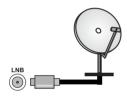
Antenna Connection

Connect the aerial or cable TV plug to the aerial input (ANT) socket located on the left side of the TV or satellite plug to the satellite input (LNB) socket located on the rear side of the TV.

Left side of the TV



Rear side of the TV





If you want to connect a device to the TV, make sure that both the TV and the device are turned off before making any connection. After the connection is done, you can turn on the units and use them.

Other Connections



If you want to connect a device to the TV, make sure that both the TV and the device are turned off before making any connection. After the connection is done, you can turn on the units and use them.

Connector	Туре	Cables	Device
	HDMI Connection (back&side)		
SPDIF	SPDIF (Optical Out) Connection (back)	•	
HEADPHONE	Headphone Connection (back)	«D-	
	USB Connection (side)		
TO A STATE OF THE	CI Connection (side)		CAM module
LAN	Ethernet Connection (back)	LAN / Ethernet Cable	(a)

When using the wall mounting kit (contact your dealer to purchase one, if not supplied), we recommend that you plug all your cables into the back of the TV before mounting on the wall. Insert or remove the CI module only when the TV is SWITCHED OFF. You should refer to the module instruction manual for details of the settings. The USB inputs on the TV support devices up to 500mA. Connecting devices that have current value above 500mA may damage your TV. When connecting equipment using a HDMI cable to your TV, to quarantee sufficient immunity against parasitic frequency radiation and trouble-free transmission of high definition signals, such as 4K content, you have to use a high speed shielded (high grade) HDMI cable with ferrites.

Turning On/Off the TV (**)

Connect power

IMPORTANT: The TV set is designed to operate on 220-240V AC. 50 Hz socket.

After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.

Plug the power cord to the mains socket outlet. The TV will switch on automatically.

To switch on the TV from standby

If the TV is in standby mode the standby LED lights up. To switch on the TV from standby mode either:

- · Press the Standby button on the remote control.
- · Press the centre of the joystick on the TV in.

To switch the TV into standby

The TV cannot be switched into standby mode via joystick. Press and hold the **Standby** button on the remote control. **Power off** dialogue will appear on the screen. Highlight **OK** and press the **OK** button. The TV will switch into standby mode.

To switch off the TV

To power down the TV completely, unplug the power cord from the mains socket.

Quick standby mode

In order to switch the TV into quick standby mode either:

- Press the Standby button on the remote.
 - Press again to go back to operating mode.
- Press and hold the centre of the joystick on the TV.
 Press again to go back to operating mode.

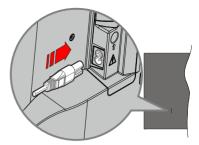
Your TV continues to operate in the quick standby mode state, as it regularly checks for updates. This is not a malfunction, it meets the requirements for energy consumption. In order to minimise energy consumption switch your TV into standby mode as explained above.

Turning On/Off the TV (**)

Connect power

IMPORTANT: The TV set is designed to operate on 220-240V AC, 50 Hz socket.

After unpacking, allow the TV set to reach the ambient room temperature before you connect the set to the mains.



Plug one end (the two-hole plug) of the supplied detachable power cord into the power cord inlet on the rear side of the TV as shown above. Then plug the other end of the power cord into the mains socket outlet. The TV will switch on automatically.

Note: The position of the power cord inlet may differ depending on the model.

To switch on the TV from standby

If the TV is in standby mode the standby LED lights up. To switch on the TV from standby mode either:

- Press the **Standby** button on the remote control.
- · Press the control button on the TV.

The TV will then switch on

To switch the TV into standby

The TV cannot be switched into standby mode via control button. Press and hold the **Standby** button on the remote control. **Power off** dialogue will appear on the screen. Highlight **OK** and press the **OK** button. The TV will switch into standby mode.

To switch off the TV

To power down the TV completely, unplug the power cord from the mains socket.

Quick Standby Mode

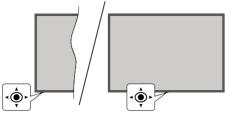
In order to switch the TV into quick standby mode either;

- Press the **Standby** button on the remote.
 - Press again to go back to operating mode.
- · Press the control button on the TV.

Press the control button again to go back to operating mode

Your TV continues to operate in the quick standby mode state, as it regularly checks for updates. This is not a malfunction, it meets the requirements for energy consumption. In order to minimise energy consumption switch your TV into standby mode as explained above.

TV Control & Operation (**)



The joystick allows you to control the Volume / Programme / Source and Quick Standby-On functions of the TV.

Note: The position of the joystick may differ depending on the model.

To change volume: With the front side of the TV facing you, push the joystick right to increase the volume and push it left to decrease the volume.

To change channel in Live TV mode: Scroll through the stored channels by pushing the joystick forwards or pulling it towards yourself.

To change source in Live TV mode: Press the centre of the joystick in, the TV options menu will be displayed. Highlight Source option and press the centre of the joystick in again, the Inputs list will appear on the screen. Select the desired source by pushing the joystick forwards or pulling it towards yourself and press the centre of the joystick in.

To turn the TV off (Quick Standby): Press the centre of the joystick in and hold it down for a few seconds, the TV will turn into quick standby mode.

To turn the TV off (Standby): The TV cannot be switched into standby mode via joystick.

To turn on the TV: Press the centre of the joystick in, the TV will turn on.

Operation with the Remote Control

Press the **Menu** button on your remote control to display Live TV settings menu when in Live TV mode. Press the **Home** button to display or return to the Home Screen of the Google TV. Use the directional buttons to move the focus, proceed, adjust some settings and press **OK** to make selections in order to make changes, set your preferences, enter a sub-menu, launch an application, etc. Press **Back/Return** to return to the previous menu screen.

Input Selection

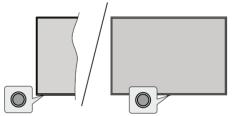
Once you have connected external systems to your TV, you can switch to different input sources. Press the **Source** button on your remote control consecutively or use the directional buttons and then press the **OK** button to switch to different sources when in Live TV

mode. Or enter the **Inputs** menu on the Dashboard, select the desired source from the list and press **OK**.

Changing Channels and Volume

You can adjust the volume by using the **Volume** +/- buttons and change the channel in Live TV mode by using the **Programme** +/- buttons on the remote.

TV Control & Operation (**)



The control button allows you to control the Quick Standby-On function of the TV.

Note: The position of the control button may differ depending on the model.

To turn the TV off (Quick Standby): Press the control button to turn the TV into quick standby mode.

To turn the TV off (Standby): The TV cannot be switched into standby mode via control button.

To turn on the TV: Press the control button, the TV will turn on.

Note: Live TV settings menu OSD in Live TV mode cannot be displayed via the control button.

Operation with the Remote Control

Press the **Menu** button on your remote control to display Live TV settings menu when in Live TV mode. Press the **Home** button to display or return to the Home Screen of the Google TV. Use the directional buttons to move the focus, proceed, adjust some settings and press **OK** to make selections in order to make changes, set your preferences, enter a sub-menu, launch an application, etc. Press **Back/Return** to return to the previous menu screen.

Input Selection

Once you have connected external systems to your TV, you can switch to different input sources. Press the **Source** button on your remote control consecutively or use the directional buttons and then press the **OK** button to switch to different sources when in Live TV mode. Or enter the **Inputs** menu on the Dashboard, select the desired source from the list and press **OK**.

Changing Channels and Volume

You can adjust the volume by using the **Volume** +/- buttons and change the channel in Live TV mode by using the **Programme** +/- buttons on the remote.

Remote Control



Standby Button

Press and hold the **Standby** button on the remote control. **Power off** dialogue will appear on the screen. Highlight **OK** and press the **OK** button. The TV will switch into standby mode. Press briefly and release to switch the TV into quick standby mode or to switch on the TV when in quick standby or standby mode.

Inserting the Batteries into the Remote

The remote may have a screw that secures the battery compartment cover onto the remote control (or this may be in a separate bag). Remove the screw, if the cover is screwed on previously. Then remove the battery compartment cover to reveal the battery compartment. Insert two 1.5V - size AAA batteries. Make sure the (+) and (-) signs match (observing correct polarity). Do not mix old and new batteries. Replace only with same or equivalent type. Place the cover back on. Secure the cover again with the screw, if any.

To pair remote with the TV

When the TV is turned on for the first time, a search for the remote will be performed before the initial setup starts. You will need to pair your remote control with your TV at this point. Press and hold the **Home** and **Back/Return** buttons on the remote simultaneously until the LED on the remote starts to blink, then release the buttons. That means the remote is in pairing mode.

Now you will wait for the TV to find your remote. When the pairing process is successful, the LED on the remote will go off and a green check mark will appear on the TV screen. If the pairing process fails the remote will enter sleep mode after 30 seconds.

In order to pair your remote later on, you can go to **Settings> Bluetooth Remotes & Accessories** menu, highlight the **Pair Accessory** option and press **OK** to start a search for accessories.

- 1. Standby: Quick Standby / Standby / On
- Numeric buttons: Switches the channel in Live TV mode, enters a number in the text box on the screen
- Language: Switches among sound modes (analogue TV), displays and changes audio language (digital TV, where available)
- 4. Volume +/-: Increases/decreases the volume level
- Microphone: Activates the microphone on the remote if the remote is paired with the TV previously. Otherwise pressing this button will start the search for accessories where you can pair your remote with the TV
- Home: Opens the Home Screen, is also used in pairing process of the remote. Press and hold to open the Dashboard
- Guide: Displays the electronic programme guide for Live TV channels
- OK: Confirms selections, enters sub-menus, views channel list (in Live TV mode)
- Back/Return: Returns to previous menu screen, goes one step back, closes open windows, closes teletext (in Live TV-Teletext mode), is also used in pairing process of the remote
- 10. Netflix: Launches the Netflix application
- 11. Prime Video: Launches the Amazon Prime Video application
- Menu: Displays the main settings menu (on other sources than Google TV Home), displays available setting options such as sound and picture
- Rewind: Moves frames backwards in media such as movies
- 14. Stop: Stops the media being played
- 15. Record: Records programmes in Live TV mode
- Coloured Buttons: Follow the on-screen instructions for coloured button functions
- Pause: Pauses the media being played, starts timeshift recording in Live TV mode
 - Play: Resumes playing the paused media
- Text: Opens and closes teletext (where available in Live TV mode)
- Fast forward: Moves frames forward in media such as movies
- Source: Shows all available broadcast and content sources
- 21. Google Play: Launches the Google Play Store application
 Disney+: Launches the Disney+ application
- 22. YouTube: Launches the YouTube application
- 23. Exit: Closes and exits from the main settings menus (on other sources than Google TV Home), closes the Home Screen and switches to last set source, exits from any running application or menu or OSD banner
- 24. Directional buttons: Navigates menus, setting options, moves the focus or cursor, etc. and displays the subpages in Live TV-Teletext mode when pressed Right or Left. Follow the on-screen instructions
- 25. Settings: Opens the Dashboard
- Programme +/-: Increases/decreases channel number in Live TV mode
- 27. Mute: Completely turns off the volume of the TV
- 28. Info: Displays information about on-screen content

Initial Setup Wizard

Note: Follow the on-screen instructions to complete the initial setup process. Use the directional buttons and the **OK** button on the remote to select, set, confirm and proceed.

When turned on for the first time, the remote control pairing screen will be displayed. After pairing your remote with the TV as instructed, select your language on the next screen and press **OK**. Follow the on-screen instructions to setup your TV and install channels. The installation wizard will guide you through the setup process. You can perform initial setup anytime using the **Reset** option in the **Settings>System>About>Reset** menu. You can access the **Settings** menu from the Dashboard on the Home screen or from the **TV options** menu in Live TV mode.

Some steps of the initial setup process may differ or be skipped depending on the selected options in each step.

1. Pair the remote control

A search for the remote control will be performed when the TV is turned on for the first time. Follow the on-screen instructions to pair your remote control (depends on the model of the remote control) with your TV. If the pairing process is successful, a green check mark will be displayed on the screen.

If you don't want to pair your remote with the TV at this point, you can press the **Back/Return** button to skip.

2. Welcome Message and Language Selection

"Welcome" message will be displayed along with the language selection options listed on the screen. Select the desired language from the list and press OK to continue

3. Region/Country

In the next step select your region or country from the list and press **OK** to continue.

4. TV setup selection

You can choose to proceed with the Google TV or basic TV installation at this point. Select according to your preference and press **OK** to continue.

5. Setup with the Google Home app

Depending on the country selection you can use the Google Home app to transfer your Android phone's Google Account to your TV. Select adding new device option in the app and scan the QR code when instructed. Follow the on-screen instructions on your TV and your phone to complete the process with the Google Home app. Some of the following steps of the initial setup on the TV will be skipped if the Google TV setup is carried out using the Home app.

To continue the setup on your TV press the Down directional button and then press **OK** on this screen.

6. Network Connection

If you did priorly connect your TV to the Internet via Ethernet a message will be displayed stating that you are connected. You can choose to continue with wired connection or change the network. Highlight Change network and press OK if you want to use wireless connection instead of wired connection.

If the Internet connection has not been established via Ethernet before, available wireless networks will be searched and listed on the next screen. Select your WLAN network from the list and press **OK** to connect. Enter the password using the virtual keyboard if the network is password protected. Select the **Other network** option from the list, if the network that you want to connect has hidden SSID (network name).

If you prefer not to connect to the Internet at this point you can skip this step by selecting the **Skip** option. You can connect to the Internet later using the **Network & Internet** menu options in the **Settings** menu from the Dashboard on the Home Screen or from the **TV options** menu in Live TV mode.

Highlight **OK** and press **OK** to continue with the wireless connection, when the energy saving tips dialogue is displayed.

7. Network Privacy Policy

Network Privacy Policy screen will be displayed next. Read the related explanations displayed on the screen. You can use Up and Down directional buttons to scroll through and read the entire text. Highlight Accept and press OK on the remote to confirm and proceed. You can change this setting later using Network Privacy Policy option in the Settings>Network & Internet menu.

8. Sign in to your Google account

If the network connection is successfully established, you can sign in to your Google account on the next screen. You need to be signed in to a Google account in order to use Google services. This step will be skipped in ointernet connection has been established or if you already signed in to your Google account using your Android phone in the previous steps of the initial setup.

By signing in, you will be able to discover new apps for videos, music and games on Google Play; get personalised recommendations from apps like YouTube; buy or rent the newest movies and shows on Google Play Movies & TV; access your entertainment and control your media. Highlight **Sign In** and press **OK** to proceed. You can sign in to your Google account by entering your e-mail address or phone number and your password, or create a new account.

9. Terms of Service

Terms of Service screen will be displayed next. By continuing, you will agree to the Google Terms of Service, the Google Play Terms of Service, and the

Google Privacy Policy. Highlight Accept and press OK on the remote to confirm and proceed. You can also view Terms of Service, Play Terms of Service, and Privacy Policy on this screen. To display the content an internet connection is needed. A message will be displayed mentioning the web site address on which this information can also be viewed, in case internet access is not available.

10. Google Services

Select each to learn more about each service, such as how to turn it on or off later. Data will be used according to Google's Privacy Policy. Highlight **Accept** and press **OK** to confirm your selection of these Google services settings.

Use location

You can allow or disallow Google and third party apps to use your TV's location information. Highlight **Use location** and press **OK** to view detailed information and turn this feature on or off. You can change this setting later using **Location status** option in the **Settings-Privacy-Location** menu.

Help improve Google TV

Automatically send diagnostic information to Google, like crash reports and usage data from your device and apps. Highlight Help improve Google TV and press OK to view detailed information and turn this feature on or off. You can change this setting later using the Settings>Privacy>Usage & diagnostics menu.

Recommendations

Google TV uses your activity from other Google products and services to improve your recommendations. Your activity on Google TV will also be used to improve your recommendations on other Google products. You can view and control the data shared between Google products at the address given in the text. You can also hide personalised recommendations on Google TV by enabling apps-only mode from the device settings.

Services and your privacy

Google Assistant sends services you talk to a unique code. That way, services can remember things like your preferences during conversations. You can view, manage and reset the data sent to services on each service's page in the Explore section of the Assistant mobile app. Learn more at q.co/assistant/idreset.

If you have signed in to your Google account in the previous steps, you can also turn on personal results for Assistant and allow Assistant to search across all your TV apps by choosing the related options when prompted.

11. Password

Depending on the country selection you made in the earlier steps, you may be asked to define a 4-digit password (PIN) at this point. Press **OK** to proceed. The selected PIN cannot be 0000. This PIN will be

required in order to access some menus, content or to release locked channels, sources, etc. You will have to enter it if you are asked to enter a PIN for any menu operation later.

12. Parental Controls

Depending on the country selection you made in the earlier steps, the parental controls screen may be displayed. Highlight the desired parental restriction option and press **OK** to select and proceed. The TV will get the maturity information from the broadcast and if this maturity level is disabled, will prohibit access to the broadcast. You can highlight **Off** and press **OK**, if you don't want to activate parental restrictions.

13. Select TV Mode

In the following step of the initial setup, you can set the TV's operation mode either as **Home** or as **Store**. **Store** option will configure your TV's settings for store environment. This option is intended only for store use. It is recommended to select **Home** for home use.

14. Chromecast built-in always available

Select your chromecast availability preference. If set as **On** your TV will be detected as a Google Cast device and allow Google Assistant and other services to wake your TV up to respond to Cast commands, even when on standby mode and the screen is off.

15. Tuner Mode

The next step is the selection of the tuner mode. Select your tuner preference to install channels for Live TV function. **Antenna**, **Cable** and **Satellite** options are available. Highlight the option that corresponds to your environment and press **OK** or **Right** directional button to proceed. If you don't want to perform a tuner scan highlight **Next** and press **OK**.

When the channel scan with the selected tuner is completed, the installation wizard will bring you back to this step. In case you want to continue scanning channels with another tuner, you can proceed as explained below.

Antenna

If the **Antenna** option is selected, you can choose to search for digital terrestrial and analogue broadcasts. On the next screen highlight the option you prefer and press **OK** to start the search.

While the search continues you can press the **Back/Return** button to stop the search. Then highlight **Skip Scan** and press **OK** or the **Right** directional button to complete the setup. The channels that have already been found will be stored in the channel list.

Note: If the country selected does not have analogue broadcasts, analogue channels may not be searched.

Cable

If the Cable option is selected, you can choose to search for digital cable and analogue broadcasts. If

any, available operator options will be listed on the Select Operator screen. Otherwise this step will be skipped. You can select only one operator from the list. Highlight the desired operator and press OK or the Right directional button to proceed. On the next screen highlight the option you prefer and press OK to start the search. If one of the digital channel search options is selected, a configuration screen will be displayed next. Scan Mode, Frequency (KHz), and Network ID options may need to be set. To perform a full scan set the Scan Mode as Full or Advanced if available. Depending on the selected operator and/or the Scan Mode setting, some options may not be available to be set.

Note: If the country selected does not have analogue broadcasts, analogue channels may not be searched.

Once you are done with setting available options, press the **Right** directional button to proceed. The TV will start to search available broadcasts.

While the search continues you can press the **Back/ Return** button to stop the search. Then highlight **Skip Scan** and press **OK** or the **Right** directional button to
complete the setup. The channels that have already
been found will be stored in the channel list.

Satellite (**)

If the Satellite option is selected, the Antenna Type screen will be displayed next. If you have a Direct satellite system, you can proceed to the next step quickly by selecting the Next option here. Highlight More and press OK to set the antenna type manually. Single, Tone Burst, DiSEqC and Unicable options are available. Highlight the antenna type that corresponds to your satellite system and press OK or the Right directional button to proceed to the next step.

Next screen may be the **Select Operator** screen. You can select only one operator from the list. Highlight the desired operator and press **OK** or the **Right** directional button to proceed. Some of the options in the following steps may be preset and/or additional steps may be added or some steps may be skipped depending on the selected operator in this step. Check the parameters in each step before proceeding and adjust if necessary. You can highlight **General** and press **OK** or **Right** directional button to proceed with normal satellite installation.

LNB List screen will be displayed next. You may be able to set up different satellites depending on the selected country, antenna type and operator in the previous steps. Highlight the desired satellite option and press OK or the Right directional button to set the parameters. The Satellite Status of the first satellite option will be set as On. In order to enable channel scan on the satellite, this option should be set as On first

Following satellite parameters will be available. You may not be able to change all settings depending on the previous selections.

Satellite Status: Set the status option to On to enable channel search on the selected satellite. Highlight this option and press OK to change the status.

Satellite Selection: Select the satellite on which you want to perform a channel search.

Scan Mode: Set your scan mode preference. Network and Full options will be available. If you are going to perform a network scan, make sure that you have adjusted the Frequency, Symbol Rate (Ksym/s) and Polarisation parameters under the Transponder option accurately.

Scan Type: You can perform a scan for free or encrypted channels only. If the **Only Free Channels** option is selected, encrypted channels will not be installed. Select **All** to scan all channels.

Store Type: You can select to store TV channels (referred to as 'Digital Channels' in the menu) or radio channels only. Select **All** to store all channels.

Transponder: Adjust the Frequency, Symbol Rate (Ksym/s) and Polarisation parameters for the selected satellite if necessary.

LNB Configurations: Set the parameters for LNB. For DiSEqC antenna type select the correct DiSEqC port corresponding to your satellite system. Set other parameters in accordance with your satellite system if necessary.

Signal Quality: The signal quality status is displayed as a percentage.

Signal Level: The signal level status is displayed as a percentage.

Press the **Back/Return** button and select next satellite you want to set. After you completed the configuration changes, highlight **Next** on the **LNB List** screen and press **OK** or the **Right** directional button to proceed.

If Load Preset List option is selected in the previous step next steps will be skipped and the preset channel list installation will start. If the correct satellite has not been selected for SatcoDX installation, a warning dialogue will be displayed on the screen. The satellite/s that can be selected will be listed. Press **OK** to close the dialogue and then set the satellite accordingly.

Channel Scan screen will be displayed next. Select Skip Scan to proceed without performing a scan and complete the initial setup. Select Scan and press OK or the Right directional button to start the search. While the search continues you can press the Back/Return button to stop the search. Then highlight Skip Scan and press OK or the Right directional button to complete the setup. The channels that have already been found will be stored in the channel list.

When the initial setup is completed a message will be displayed. Press **OK** to finish the setup.

You will be asked to give your consent to the collection of your data. Read the text on the screen for detailed information. Highlight **Accept** and press **OK** to give your consent and proceed. To skip without giving your consent, select **Next**. You can change this setting later using the **Settings>Privacy>Usage & diagnostics** menu.

Your apps will be installed and final touches will be added. When the Google TV is ready, a message stating that the TV is ready and the **Start exploring** button will appear on the screen. Press **OK** again to proceed.

Home Screen will be displayed. You can press the **Exit** button on the remote or highlight the LiveTV app and press **OK** to switch to Live TV mode and watch TV channels

Home Screen

To enjoy the benefits of your Google TV, the Google TV installation should be performed instead of the basic TV installation during the initial setup of your TV. You also need to be signed in to your Google account and your TV should be connected to the Internet. To perform Google TV installation after the initial setup, you can scroll down, highlight the **Setup Google TV** option and press **OK**. Connect the TV to a home network with a high-speed Internet connection. Refer to the **Network & Internet** and **Connecting to the Internet** sections for further information on how to connect your TV to the Internet

The Home menu is the centre of your TV. From the Home menu, you can start any application, switch to a TV channel, watch a movie, or switch to a connected device. Press the **Home** button to display Home Screen. You can also select the **Google TV Home** option from the **Inputs** menu to switch to Home Screen. To open the **Inputs** menu, press the **Source** button on the remote or press the **Menu** button on the remote when the TV is in Live TV mode, highlight the **Source** option in the **TV options** menu, and press **OK**. Depending on your TV setup and your country selection in the initial setup, the Home menu may contain different items.

Highlight the **Live TV** app and press **OK** or press the **Exit** button on the remote to switch to Live TV mode. If the source was set to an option other than **Antenna**, **Cable**, **Satellite** or **ATV** previously, press the **Source** button and set one of these options to watch live **TV** channels. Highlight the **Multi Media Player** app and press **OK** to browse the connected USB devices and play/display the installed media content on the TV. The audio can be played through the speakers of the TV or through the speaker systems connected to the TV.

Google TV Home Screen

The Home Screen will be organised into several tabs. Home, Apps, and Library tabs will be available. The available options of these tabs are positioned in rows. To navigate through the Home Screen options use the directional buttons on the remote. Select a tab and then a row, move the focus to the desired item in the row. Press OK to make a selection or to enter a sub-menu.

On the upper left of the Home Screen, search tool will be located. You can choose either to type a word to start a search via the virtual keyboard or try voice search option if your remote has a built-in microphone. Move the focus to the search tool and press **OK** or just press the **Microphone** button on the remote and talk to proceed.

On the upper right of the Home Screen, the logo of the active account will be seen, if you have priorly logged into a Google account.

To display the Dashboard, press the **Settings** button or press and hold the **Home** button on the remote or press the Right directional button consecutively on the Home screen. On the Dashboard there will be options for Google TV accounts, screensaver and the **Settings**, **Inputs**, **Picture** and **Notifications** options available.

To browse the Internet, you will need an internet browser application. Make a search on the Home Screen or in the **Apps** tab, find a browser and download it

Basic TV Home Screen

The available options of the Home Screen are positioned in rows. To navigate through the Home Screen options use the directional buttons on the remote. Select a row then move the focus to the desired item in the row. Press **OK** button to make a selection or to enter a sub-menu.

To display the Dashboard, press the **Settings** button or press and hold the **Home** button on the remote or highlight the **Dashboard** item on the Home screen and press **OK**. On the Dashboard there will be options for screensaver and the **Settings**, **Inputs**, **Picture** and **Notifications** options available.

Live TV Mode Menu Content

Switch the TV to Live TV mode first and then press the **Menu** button on the remote to see Live TV menu options. To switch to Live TV mode you can either press the **Exit** button or highlight the **Live TV** app on the Home Screen and press **OK**.

Channels

Programme Guide: Open the electronic programme guide. Refer to the **Programme Guide** section for detailed information.

Channel Export/Import: Export this TV's satellite channel list data to a connected USB storage device, or import a previously exported data from a connected USB storage device to this TV. The Channel Export and Channel Import options will be available. Connect a USB storage device (*) to the TV, highlight the option you want to continue with and press OK. The Channel Export/Import option will not be available if the input source is not set to Satellite.

(*) The USB storage device must be formatted with the FAT32 file system.

Channel: Open the **Channels** menu. You can use the options of this menu to search for broadcast channels. Refer to the **Channels** section for more information.

Channel Management: You can edit the channels and the channel list using the options of this menu.

Available options may change or the menu may become inactive depending on the selected input source, operator, and whether the channel installation is completed.

Input Source - Antenna

Channel Skip: Set channels to be skipped when switching the channels via the **Programme +/-** buttons on the remote. Highlight the desired channel/s on the list and press **OK** to select/unselect.

Channel Swap: Replace the positions of the two selected channels in the channel list. Highlight the desired channels on the list and press OK to select. When the second channel is selected, the position of this channel will be replaced with the position of this channel will be replaced with the position of the first selected channel. You can press the Yellow button and enter the number of the channel you want to select. Then highlight OK and press OK to go to that channel. You may need to set the LCN option in the Channels>Channel>Antenna menu to Off in order to enable this feature

Channel Move: Move a channel to the position of another channel. Highlight the channel you want to move and press OK to select. Then do the same for a second channel. When the second channel is selected, you can press the Blue button and the first selected channel will be moved to the position of that channel. When the confirmation dialogue appears, highlight Continue and press OK to proceed. You can press the Yellow button and enter the number of the channel you want to select. Then highlight OK and press OK to go to that channel. You may need to set the LCN option in the Channels>Channel>Antenna menu to Off in order to enable this feature

Channel Edit: Edit channels in the channel list. Edit the name and channel number (*) of the selected channel and display Network Name, Channel Type and Frequency information related to that channel if available. Depending on the channel other options may also be editable. Press OK or the Yellow button

to edit the highlighted channel. You can press the **Blue** button to delete the highlighted channel.

(*) The selected channel number should not be used for another channel in the channel list. You may need to set the LCN option to Off in order to change the channel number.

Channel Delete: Highlight the desired channel/s on the list and press OK or the Yellow button to select/ unselect. Then press the Blue button to delete the selected channel/s. When the confirmation dialogue appears, highlight Continue and press OK to proceed.

Clear Channel List: Delete all channels stored in the channel list. A dialogue will be displayed for confirmation. Highlight Continue and press OK to proceed. Highlight Cancel and press OK to cancel.

Input Source - Cable

Channel Skip: Set channels to be skipped when switching the channels via the **Programme +/-** buttons on the remote. Highlight the desired channel/s on the list and press **OK** to select/unselect.

Channel Swap: Replace the positions of the two selected channels in the channel list. Highlight the desired channels on the list and press OK to select. When the second channel is selected, the position of this channel will be replaced with the position of the first selected channel. You can press the Yellow button and enter the number of the channel you want to select. Then highlight OK and press OK to go to that channel. You may need to set the LCN option in the Channels>Channel>Cable menu to Off in order to enable this feature.

Channel Move: Move a channel to the position of another channel. Highlight the channel you want to move and press OK to select. Then do the same for second channel. When the second channel is selected, you can press the Blue button and the first selected channel will be moved to the position of that channel. When the confirmation dialogue appears, highlight Continue and press OK to proceed. You can press the Yellow button and enter the number of the channel you want to select. Then highlight OK and press OK to go to that channel. You may need to set the LCN option in the Channels>Channel>Cable menu to Off in order to enable this feature.

Channel Edit: Edit channels in the channel list. Edit the name and channel number (*) of the selected channel and display Network Name, Channel Type, Frequency, Modulation and Symbol Rate information related to that channel. Depending on the channel other options may also be editable. Press OK or the Yellow button to edit the highlighted channel. You can press the Blue button to delete the highlighted channel.

(*) The selected channel number should not be used for another channel in the channel list. You may need to set the LCN option to Off in order to change the channel number.

Channel Delete: Highlight the desired channel/s on the list and press **OK** or the **Yellow** button to select/

unselect. Then press the **Blue** button to delete the selected channel/s. When the confirmation dialogue appears, highlight **Continue** and press **OK** to proceed.

Clear Channel List: Delete all channels stored in the channel list. A dialogue will be displayed for confirmation. Highlight Continue and press OK to proceed. Highlight Cancel and press OK to cancel.

Input Source - Satellite

Channel Skip: Set channels to be skipped when switching the channels via the **Programme +/-** buttons on the remote. Highlight the desired channel/s on the list and press **OK** to select/unselect.

Channel Swap: Replace the positions of the two selected channels in the channel list. Highlight the desired channels on the list and press **OK** to select. When the second channel is selected, the position of this channel will be replaced with the position of the first selected channel. You can press the **Yellow** button and enter the number of the channel you want to select. Then highlight **OK** and press **OK** to go to that channel.

Channel Move: Move a channel to the position of another channel. Highlight the channel you want to move and press OK to select. Then do the same for a second channel. When the second channel is selected, you can press the Blue button and the first selected channel will be moved to the position of that channel. When the confirmation dialogue appears, highlight Continue and press OK to proceed. You can press the Yellow button and enter the number of the channel you want to select. Then highlight OK and press OK to go to that channel.

Channel Edit: Edit channels in the channel list. Edit the name and channel number (*) of the selected channel and display Network Name, Channel Number, Channel Type and Frequency information related to that channel if available. Depending on the channel other options may also be editable. Press OK or the Yellow button to edit the highlighted channel. You can press the Blue button to delete the highlighted channel.

(*) The selected channel number should not be used for another channel in the channel list.

Channel Delete: Highlight the desired channel/s on the list and press OK or the Yellow button to select/ unselect. Then press the Blue button to delete the selected channel/s. When the confirmation dialogue appears, highlight Continue and press OK to proceed.

Clear Channel List: Delete all channels stored in the channel list. A dialogue will be displayed for confirmation. Highlight Continue and press OK to proceed. Highlight Cancel and press OK to cancel.

Input Source - ATV

Channel Skip: Set channels to be skipped when switching the channels via the **Programme +/-** buttons on the remote. Highlight the desired channel/s on the list and press **OK** to select/unselect.

Channel Swap: Replace the positions of the two selected channels in the channel list. Highlight the desired channels on the list and press **OK** to select. When the second channel is selected, the position of this channel will be replaced with the position of this channel will be replaced with the position of the first selected channel. You can press the **Yellow** button and enter the number of the channel you want to select. Then highlight **OK** and press **OK** to go to that channel.

Channel Move: Move a channel to the position of another channel. Highlight the channel you want to move and press OK to select. Then do the same for a second channel. When the second channel is selected, you can press the Blue button and the first selected channel will be moved to the position of that channel. When the confirmation dialogue appears, highlight Continue and press OK to proceed. You can press the Yellow button and enter the number of the channel you want to select. Then highlight OK and press OK to go to that channel.

Channel Edit: Edit channels in the channel list. Edit the channel number (*), name, frequency, colour system and sound system of the selected channel and display the Network Name and Channel Type information related to that channel if available. Press OK or the Yellow button to edit the highlighted channel. You can press the Blue button to delete the highlighted channel.

(*) The selected channel number should not be used for another channel in the channel list.

Channel Delete: Highlight the desired channel/s on the list and press OK or the Yellow button to select/ unselect. Then press the Blue button to delete the selected channel/s. When the confirmation dialogue appears, highlight Continue and press OK to proceed.

Analogue Channel Fine-tune: Select the channel you want to adjust from the list and press OK. Then change the frequency using the Left/Right directional buttons to find optimal reception. Press the Back/Return button to save and exit. When the confirmation dialogue appears, highlight OK and press OK to proceed.

Clear Channel List: Delete all channels stored in the channel list. A dialogue will be displayed for confirmation. Highlight Continue and press OK to proceed. Highlight Cancel and press OK to cancel.

TV Options

Source: Display the list of input sources. Select the desired one and press **OK** to switch to that source.

Picture: Open the Picture menu. Refer to the Display & Sound section for detailed information.

Screen: Set the aspect ratio of the screen. Select one of the predefined options according to your preference.

Sound: Open the **Sound** menu. Refer to the **Display** & **Sound** section for detailed information.

Power

Sleep Timer: Define a time after which you want your TV to enter sleep mode automatically. Set as **Off** to disable

Picture off: Select this option and press **OK** to turn the screen off. Press a button on the remote or on the TV to turn the screen on again. Note that you can not turn the screen on via the **Volume +/-, Mute** and **Standby** buttons. These buttons will function normally.

Auto Sleep: Define an idle time after which you want your TV to enter sleep mode automatically. 4 Hours, 6 Hours and 8 Hours options are available. Set as Never to disable.

Parental Controls

(*) To enter this menu PIN should be entered first. Use the PIN that you have defined during the initial setup process. If you have changed the PIN after the initial setup use that PIN. If you didn't set a PIN during the initial setup, you can use the default PIN. The default PIN is 1234. Some options may not be available or vary depending on the country selection during the initial setup. The content of this menu may not be displayed if the channel installation is not completed and no channels are installed.

Channels Blocked: Select channel/s to be blocked from the channel list. Highlight a channel and press OK to select/unselect. To watch a blocked channel PIN should be entered first.

Programme Restrictions: Block programmes according to the age rating information that is being broadcasted with them. You can turn on or off restrictions, set rating systems, age limits, and block unrated programmes using the options of this menu.

Inputs Blocked: Prevent access to the selected input source content. Highlight the desired input option and press **OK** to select/unselect. To switch to a blocked input source PIN should be entered first.

Change PIN: Change the PIN you defined during the initial setup. Highlight this option and press OK. You will need to enter the current PIN first. Then new PIN entry screen will be displayed. Enter the new PIN twice for confirmation.

CI Card: Display available menu options of the CI card in use. This item may not be available depending on the input source setting.

Advanced Options

The options of this menu may change and/or appear as greyed out depending on the selected input source.

Audio

Audio Language: Set your language preference for audio. This item may not be available depending on the input source setting.

Second Audio Language: Set one of the listed language options as second audio language preference.

Soundtracks: Set your sound track preference, if any available.

Audio Type: Set your audio type preference.

Visually Impaired: Set the Audio Type option to Audio Description to enable this option. Digital TV channels can broadcast special audio commentary describing on-screen action, body language, expressions and movements for people with visual disabilities.

Speaker: Turn this option on if you want to hear the audio commentary through the TV speakers.

Headphone: Turn this option on if you want to route the sound of the audio commentary to the TV's headphone output.

Volume: Adjust the volume level of the audio commentary.

Pan and Fade: Turn this option on if you want to hear the audio commentary more clearly, when it is available through broadcast.

Audio for the Visually Impaired: Set your audio preference for visually impaired. Options will be available depending on the selected broadcast

Fader Control: Adjust the volume balance between the main TV audio (Main) and audio commentary (AD).

Subtitle

Analogue Subtitle: Set this option as Off, On or Mute. If Mute option is selected, the analogue subtitle will be displayed on the screen but the speakers will be muted simultaneously.

Digital Subtitle: Set this option as Off or On.

Subtitle Tracks: Set your subtitle track preference, if any available.

Digital Subtitle Language: Set one of the listed language options as first digital subtitle language preference.

Second Digital Subtitle Language: Set one of the listed language options as second digital subtitle language preference. If the selected language in the Digital Subtitle Language option is not available, the subtitles will be displayed in this language.

Subtitle Type: Set this option as Normal or Hearing Impaired. If the Hearing Impaired option is selected, it provides subtitle services to deaf and hard of hearing viewers with additional descriptions.

Teletext

Digital Teletext Language: Set the teletext language for digital broadcasts.

Decoding Page Language: Set the decoding page language for teletext display.

Blue Mute: Turn this function on/off according to your preference. When turned on, blue background will be displayed on the screen when no signal is available

No Signal Auto Power Off: Set the behaviour of the TV, when no signal is detected from the currently set input source. Define a time after which you want your TV to turn itself off or set as **Off** to disable.

Default Channel: Set your default startup channel preference. When the Select Mode is set as User Select, the Show Channels option will become available. Highlight and press OK to see channel list. Highlight a channel and press OK to make a selection. Selected channel will be displayed, every time the TV is turned back on from any standby mode. If the Select Mode is set as Last Status, the last watched channel will be displayed.

HBBTV Settings

HBBTV Support: Turn the HBBTV function on or off

Do Not Track: Set your preference regarding the tracking behaviour for HBBTV services.

Cookie Settings: Set your cookie setting preference for HBBTV services.

Persistent Storage: Turn the Persistent Storage function on or off. If turned on, cookies will be stored with an expiry date in the persistent memory of the TV.

Block Tracking Sites: Turn the Block Tracking Sites function on or off.

Device ID: Turn the Device ID function on or off.

Reset Device ID: Reset the device ID for HBBTV services. Confirmation dialogue will be displayed.

Press OK to proceed. Back to cancel.

BISS Key: "Click To Add Biss Key" message will be displayed. Press OK to add a biss key. Frequency, Symbol Rate (KSym/s), Polarisation, Programme ID and CW Key parameters will be available to be set. Once you are done with the settings highlight Save Key and press OK to save and add the biss key. This option will not be available if the input source is not set as Satellite. Available options will differ depending on the selected country during the initial setup process.

System Information: Display detailed system information on the current channel such as Signal Level, Signal Quality, Frequency, etc.

Open Source Licences: Display Open Source Software licence information.

Settings

You can access the **Settings** menu from the Dashboard or from the **TV options** menu in Live TV mode. To display the Dashboard, press the **Settings** button or press and hold the **Home** button on the remote or press the Right directional button consecutively on the Home Screen. If Basic TV installation is performed during the initial setup, highlight the **Dashboard** item on the Home Screen and press **OK**.

You can use the Right and Left directional buttons, **OK**, and **Back/Return** buttons to navigate through the menu tree

Channels & Inputs

The content of this menu may change depending on the selected input source and whether the channel installation is completed.

Channels

Analogue

Channel Scan: Start a scan for analogue channels. You can press OK or the Back/Return button to cancel the scan. Then press OK or the Back/Return button again to exit. The channels that have already been found will be stored in the channel list.

Update Scan: Search for updates. Previously added channels will not be deleted, but any newly found channels will be stored in the channel list. You can press **OK** or the **Back/Return** button to cancel the scan. Then press **OK** or the **Back/Return** button again to exit.

Analogue Manual Scan: Start a channel scan manually. First, enter the start frequency for the scan. Then select the scanning direction and press OK or the Right directional button to start scan. The found channels will be stored in the channel list. You can press the Back/Return button to cancel the scan. Then press the Back/Return button again or highlight Finish and press OK to exit.

Antenna

Channel Scan: Start a scan for digital terrestrial channels. You can press OK or the Back/Return button to cancel the scan. Then press OK or the Back/Return button again to exit. The channels that have already been found will be stored in the channel list.

Update Scan: Search for updates. Previously added channels will not be deleted, but any newly found channels will be stored in the channel list. You can press **OK** or the **Back/Return** button to cancel the scan. Then press **OK** or the **Back/Return** button again to exit.

Single RF Scan: Set the RF Channel option by using the Right/Left directional buttons. Signal Level and Signal Quality of the selected channel will be shown. Press OK to start scan on the selected RF channel. The found channels will be stored in the channel list. You can press the Back/ Return button to cancel the scan. Then press the Back/Return button again or highlight Finish and press OK to exit.

Manual Service Update: Start a service update manually. You can press OK or the Back/Return button to cancel the scan. Then press OK or the Back/Return button again to exit.

LCN: Set your preference for LCN. LCN is the Logical Channel Number system that organises available broadcasts in accordance with a recognisable channel number sequence (if available).

Channel Scan Type: Set your scan type preference. Channel Store Type: Set your store type preference.

Favourite Network Select: Select your favourite network. This menu option will be active, if more than one network is available.

Cable

Channel Scan: Start a scan for digital cable channels. If available, operator options will be listed. Select the desired one and press OK. Scan Mode. Frequency and Network ID options may be available. The options may vary depending on the operator and the Scan Mode selections. Set the Scan Mode as Full if you don't know how to set up other options. Highlight Scan and press OK or the Right directional button to start the scan. You can press the Back/Return button to cancel the scan. The channels that have already been found will be stored in the channel list.

Single RF Scan: Enter the Frequency value. Signal Level and Signal Quality of the selected Frequency will be shown. Highlight the Scan option and press **OK** or the Right directional button to start scan. The found channels will be stored in the channel list.

LCN: Set your preference for LCN. LCN is the Logical Channel Number system that organises available broadcasts in accordance with a recognisable channel number sequence (if available).

Channel Scan Type: Set your scan type preference. Channel Store Type: Set your store type preference.

Favourite Network Select: Select your favourite network. This menu option will be active, if more than one network is available. This option may not be available depending on the selected country during the initial setup process.

Satellite

Channel Installation Mode: Set this option as Preferred Satellite or General Satellite. The channel list will also change depending on the selected option here. In order to watch the channels on the satellite you want, this option should be selected accordingly. Set to Preferred Satellite to watch operator channels, if you have performed an operator installation. Set to General Satellite to watch other satellite channels, if you have performed a normal installation.

Satellite Re-scan: Start a satellite scan beginning with the antenna selection screen. When this scanning option is preferred, some scanning configurations will not be available and thus the preferences you made during the initial setup process may not be changed.

For the General Satellite channel installation mode the SatcoDX Scan option may also be available here. For standard installation select Normal scan For SatcoDX installation select SatcoDX Scan and copy the relevant sdx file into the root directory of an USB storage device and connect it to your TV. Highlight this option and press OK or the Right directional button. The Download SatcoDX option will be highlighted, press OK or the Right directional button to continue. Select the sdx file from the connected USB storage device and press OK. Satellite selection screen will be displayed. The status of the first satellite option will appear as On. Highlight that satellite option and press OK. Set the parameters corresponding to your system and correct satellite and press the Back/Return button to return to the satellite selection screen. Highlight Next and press OK to proceed with the SatcoDX channel list installation. If the selected satellite is not correct for SatcoDX installation, a warning dialogue will be displayed on the screen. The satellite/s that can be selected will be listed. Press OK to close the dialogue and press OK or the Back/Return button to return to satellite selection screen. Then set the satellite accordingly.

Satellite Add: Add satellite/s on which you want to perform a channel scan. This menu option will be active, if Channel Installation Mode is set to General Satellite

Satellite Update: Search for any updates by repeating the previous scan with the same settings. You will also be able to configure these settings before the scan. Depending on the Channel Installation Mode setting, this option may not be available or named differently depending on the available services. Highlight the satellite and press **OK** to configure detailed satellite parameters. Then press the Back/Return button to return to

the satellite selection screen. Highlight **Next** and press **OK** to proceed.

Satellite Manual Tuning: Start a manual satellite scan. Highlight the satellite and press **OK** to configure detailed satellite parameters. Then highlight **Next** and press **OK** to proceed.

Install Operator Application/Operator Application Setup: If the operator application is not priorly installed, you can start the installation manually. If the operator application is priorly installed, you can manage the settings or uninstall the application using the If the operator application is priorly installed, you can manage the settings or uninstall the application using the related options. This menu option will be named after the related operator. This option may not be available depending on the selected country and satellite operator during the initial setup process.

Favourite Network Select: Select your favourite network. This menu option will be active, if more than one network is available. This option may not be available depending on the selected country during the initial setup process.

Auto Channel Update: Turn the auto channel update function on or off

Channel Update Message: Turn the channel update message function on or off.

Note: Some options may not be available and appear as greyed out depending on the operator selection and operator related settings.

Inputs

Show or hide an input terminal, change the name of an input terminal, and configure the options for HDMI CEC (Consumer Electronic Control) function and display the CEC device list.

Display & Sound

Picture

Picture Mode: Set the picture mode to suit your preference or requirements. Picture mode can be set to one of these options: **Standard**, **Vivid**, **Sport**, **Movie** and **Game**.

Dolby Vision Modes: If Dolby Vision content is detected Dolby Vision Bright, Dolby Vision Dark and Dolby Vision Vivid picture mode options will be available instead of other picture modes.

Backlight, Brightness, Contrast, Colour, HUE, Sharpness settings will be adjusted according to the selected picture mode.

Auto Backlight: Set your auto backlight preference. Off, Low, Middle and Eco options will be available. Set as Off to disable.

Backlight: Adjust the backlight level of the screen manually. This item will not be available if the **Auto Backlight** is not set as **Off**.

Brightness: Adjust the brightness value of the screen

Contrast: Adjust the contrast value of the screen.

Colour: Adjust the colour saturation value of the screen

HUE: Adjust the hue value of the screen.

Sharpness: Adjust the sharpness value for the objects displayed on the screen.

Advanced Settings

Colour Temperature: Set your colour temperature preference. User, Cool, Standard and Warm options will be available. You can adjust red, green and blue gain values manually. If one of these values is changed manually, Colour Temperature option will be changed to User, if not already set as User.

Dolby Vision Notification: Set your notification appearance preference for Dolby Vision content. When turned on, Dolby Vision logo will be displayed on the screen when Dolby Vision content is detected.

DNR: Dynamic Noise Reduction (DNR) is the process of removing noise from digital or analogue signals. Set your DNR preference as **Low**, **Medium**, **Strong**, **Auto** or turn it off by setting as **Off**.

MPEG NR: MPEG Noise Reduction cleans up block noise around outlines and noise on the background. Set your MPEG NR preference as **Low**, **Medium**, **Strong** or turn it off by setting as **Off**.

Max Vivid: Manipulates contrast and colour perception, basically converts Standard Dynamic Range picture to High Dynamic Range picture. Set as **On** to enable.

Adaptive Luma Control: Adaptive Luma control adjusts contrast settings globally according to content histogram in order to provide deeper black and brighter white perception. Set your Adaptive Luma Control preference as Low, Medium, Strong or turn it off by setting as Off.

Local Contrast Control: Local contrast control divides each frame to defined small regions and provides ability to apply independent contrast setting for each region. This algorithm improves fine details and provides better contrast perception. It makes higher depth impression by enhancing dark and bright areas without any detail loss. Set your Local Contrast Control preference as Low, Medium, High or turn it off by setting as Off.

Filmmaker Mode (optional): Filmmaker mode and Auto switch options will be available. To enable or disable an option, highlight and press OK.

Flesh Tone: Adjusts the skin tone brightness. Set your preference as Low, Medium, or High to enable. Set as Off to disable.

DI Film Mode: It is the function for 3:2 or 2:2 cadence detection for 24 fps film content and improves the side effects (like interlacing effect or judder) which are caused by these pull down methods. Set your DI Film Mode preference as Auto or turn it off by setting as Off. This item will not be available if Game Mode or PC Mode is turned on.

Blue Stretch: Human eye perceives cooler whites as brighter white, Blue Stretch feature changes White balance of mid-high grey levels to cooler colour temperature. Turn the Blue Stretch function on or off

Gamma: Set your gamma preference. **Dark, Middle**, and **Bright** options will be available.

Game Mode: Game mode is the mode which cuts down some of the picture processing algorithms to keep up with video games that have fast frame rates. Turn the Game Mode function on or off.

Note: The game mode can not be used for Netflix and YouTube. If you want to use the game mode for Multi Media Player or HDMI source, you need to set the MJC option to Off.

ALLM: ALLM (Auto Low Latency Mode) function allows the TV to activate or deactivate low latency settings depending on playback content. Highlight this option and press **OK** to turn the ALLM function on or off.

PC Mode: PC Mode is the mode which cuts down some of the picture processing algorithms to keep signal type as it is. It can be usable especially for RGB inputs. Turn the PC Mode function on or off.

De-Contour: Decreases the contour effects in low-resolution content and auto streaming services. Set your preference as **Low**, **Middle**, or **High** to enable. Set as **Off** to disable.

MJC: Optimises the TV's video settings for motional images to acquire a better quality and readability. Highlight this option and press OK to see available options. Effect, Demo Partition, and Demo options will be available. Set the Effect option to Low, Middle, or High to enable the MJC function. Highlight Demo Partition and press OK to set your preference. All, Right and Left options will be available. Highlight Demo and press OK to activate the demo mode. While the demo mode is active, the screen will be divided into two sections, one displaying the MJC activity, the other displaying the normal settings for the TV

screen. If the **Demo Partition** option is set to **AII**, both sides will display the MJC activity.

HDMI RGB Range: This setting should be adjusted according to input RGB signal range on HDMI source. It can be limited range (16-235) or full range (0-255). Set your HDMI RGB range preference. Auto, Full and Limit options will be available. This item will not be available, if the input source is not set as HDMI.

Low Blue Light: Electronic device screens emit blue light that can cause eye strain and may lead to eye problems over time. To reduce the effect of blue light set your preference as Low, Middle, or High. Set as Off to disable.

Colour Space: You can use this option to set the range of colours displayed on your TV screen. When set as On, colours are set according to the source signal. When set as Auto, the TV decides to set this function as on or off dynamically, according to source signal type. When set as Off, the TV's maximum colour capacity is used by default.

Automatic Playback Optimisation: Turn the automatic playback optimisation feature on or off.

Dolby Vision PQ Calibration: Highlight this option and press **OK** to see available options. **View Mode** and **End User Calibration** options will be available. You can also view the last modified time information here.

Light Sense: Turn the light sense feature on or off.

Colour Tuner: Colour saturation, hue, brightness can be adjustable for red, green, blue, cyan, magenta, yellow and flesh tone (skin tone) for having more vivid or more natural image. Set the HUE, Colour, Brightness, Offset and Gain values manually. Highlight Enable and press OK to turn this function on.

11 Point White Balance Correction: White balance feature calibrates TV's colour temperature in detailed grey levels. By visually or measurement, grey scale uniformity can be improved. Adjust the strength of the Red, Green, Blue colours and Gain value manually. Highlight Enable and press OK to turn this function on.

Reset to Default: Reset the video settings to factory default settings.

Note: Depending on the currently set input source some menu options may not be available.

Screen

Set the aspect ratio of the screen. Select one of the predefined options according to your preference.

Sound

Sound Style: For easy sound adjustment, you can select a preset setting. User, Standard, Vivid, Sports, Movie, Music and News options

will be available. Sound settings will be adjusted according to the selected sound style. Some other sound options may become unavailable depending on the selection.

Balance: Adjust the left and right volume balance for speakers and headphones.

Surround Sound: Turn the surround sound feature on or off

Equaliser Detail: Adjust the equalizer values according to your preferences.

Speaker Delay: Adjust the delay value for speakers.

eARC: Set your eARC preference. **Off** and **Auto** options will be available. Set as **Off** to disable.

Digital Output: Set the digital sound output preference. **Auto**, **Bypass**, **PCM**, **Dolby Digital Plus** and **Dolby Digital** options will be available. Highlight the option you prefer and press **OK** to set.

Digital Output Delay: Adjust the digital output delay value.

Auto Volume Control: With Auto Volume Control, you can set the TV to automatically level out sudden volume differences. Typically at the beginning of adverts or when you are switching channels. Turn this option on/off by pressing **OK**.

Downmix Mode: Set your preference to convert multi-channel audio signals to two-channel audio signals. Press **OK** to see the options and set. **Stereo** and **Surround** options will be available. Highlight the option you prefer and press **OK** to set.

DTS DRC: Dynamic Range Control provides gain adjustment of the source to maintain suitable audible range at both low and high playback levels. Turn this option on/off by pressing **OK**.

Dolby Audio Processing: With Dolby Audio Processing, you can improve the sound quality of your TV. Press **OK** to see the options and set. Some other sound options may become unavailable and appear as greyed out depending on the settings made here. Turn the **Dolby Audio Processing** feature off if you would like to change these settings.

Dolby Audio Processing: Highlight this option and press **OK** to turn this function on/off. Some options may not be available if this option is not turned on.

Sound Mode: If the Dolby Audio Processing option is turned on Sound Mode option will be available to set. Highlight the Sound Mode option and press OK to see the preset sound modes. Game, Movie, Music, News, Stadium, Smart and User options will be available. Highlight the option you prefer and press OK to set. Some options may not be available if this option is not set to User.

Volume Leveler: Allows you to balance the sound levels. In this way, you are minimally affected by abnormal sound rises and falls. Turn this feature on/off by pressing **OK**.

Surround Virtualiser: Turn the surround virtualiser feature on or off

Dolby Atmos: Your TV supports Dolby Atmos technology. By means of this technology the sound moves around you in three-dimensional space, so you feel like you're inside the action. You will have best experience if input audio bitstream is Atmos. Turn this option on/off by pressing **OK**.

Dialogue Enhancer: This feature provides sound postprocessing options for speech-gated dialogue enhancement. **Off, Low, Medium** and **High** options will be available. Set according your preference.

Note: This feature has an effect only if input audio format is AC-4 or dolby audio processing is enabled. This effect only applies to TV loudspeaker output.

Dolby Atmos Notification: Set your notification appearance preference for Dolby Atmos content. When turned on, Dolby Atmos logo will be displayed on the screen when Dolby Atmos content is detected.

DTS Virtual:X: This feature will enhance your sound experience by providing a virtualisation of surround speakers through your TV's speakers. Highlight Virtual:X and press OK. The TruBass option will become available. TruBass manages and enhances low frequency signals. Highlight this option and press OK to turn it on or off. Some other options may become unavailable and appear as greyed out depending on the setting made here. This item will not be available if Dolby Audio Processing is turned on.

Reset to Default: Resets the sound settings to factory defaults.

Audio Output

Digital Output: Set the digital sound output preference. **Auto**, **Bypass**, **PCM**, **Dolby Digital Plus** and **Dolby Digital options** will be available. Highlight the option you prefer and press **OK** to set.

Digital Output Delay: Adjust the digital output delay value.

Network & Internet

You can configure your TV's network settings using the options of this menu.

Wi-Fi: Turn the wireless LAN (WLAN) function on and off.

Available networks

When the WLAN function is turned on, available wireless networks will be listed. Highlight **See all** and press **OK** to see all networks. Select one and press **OK**

to connect. You may be asked to enter a password to connect to the selected network, in case the network is password protected. Additionally you can add new networks by using the related options.

Other options

Add new network: Add networks with hidden SSID's

Data Saver: Turn the Data Saver function on and off. This function automatically adjusts video quality to use less mobile data. When turned on, Data Saver will monitor and limit your network traffic.

Data usage and alerts: Set alerts to monitor data usage on your TV. You can also see the amount of data used on the current day. Highlight **Data alerts** and press **OK** to see available options. You can disable alerts by setting to **Off**.

Scanning always available: You can let the location service and other apps scan for networks, even when WLAN function is turned off. Press **OK** to turn it on and off.

Ethernet

Connected/Not connected: Displays the status of the internet connection via Ethernet, IP and MAC addresses

Proxy settings: Set a HTTP proxy for browser manually. This proxy may not be used by other apps.

IP settings: Configure your TV's IP settings.

Others

Network Privacy Policy: Display network privacy policy. You can use Up and Down directional buttons to scroll through and read the entire text. Highlight **Accept** and press **OK** to give your consent.

Wake configs

WoW: Turn this function on and off. This function allows you to turn on or awaken your TV via wireless network

WoL: Turn this function on and off. This function allows you to turn on or awaken your TV via network.

WoC: Turn this function on and off. This function allows you to turn on or awaken your TV via Chromecast. This option will be available if the **WoW** or **WoL** option is turned on.

Accounts & Sign-In

Google TV installation should be performed during initial setup in order to sign in to your Google account. To perform Google TV installation after the initial setup, you can scroll down on the Home Screen, highlight the **Setup Google TV** option and press **OK**.

You can press the **Setings** button or press and hold the **Home** button on the remote to display the Dashboard.

Then you can use the option for the Google account to switch between accounts or open this menu.

Following options will be available if you have signed into your Google account.

Google TV Account

You can manage the settings of the active account or remove a registered account using the available options.

Kids Accounts

You can manage the settings of the active account or remove a registered account using the available options. You will need to enter the PIN you defined during adding the kid account in order to access the settings.

Add a kid: Create a personalised space for your kid with access to content and tools of your choice to help you in control. Follow on-screen instructions to complete.

Other Accounts

You can use other accounts within Google apps like YouTube, but you won't see recommendations for those accounts on the Google TV home screen.

Add another account: Add a new one to available accounts by signing in to it.

Privacy

Device Settings

Location

Location status: You can allow the use of the wireless connection to estimate the location.

Scanning always available: You can let the location service and other apps scan for networks, even when WLAN function is turned off. Press **OK** to turn it on and off.

Recent Location Requests: You can see the recent location requests and allow or restrict the listed apps to use your location information.

Usage & Diagnostics: Automatically send usage data and diagnostic information to Google. Set according to your preference.

Ads: Manage your ads settings, such as resetting your advertising ID.

Account Settings

Google Assistant: Manage your Google Assistant settings, such as turning on or off voice control.

Payment & Purchases: To prevent unauthorised purchases, you can require authentication for all purchases, including in-app purchases, made through your Google Play account on this TV.

App Settings

App permissions: The apps will be sorted by permission type categories. You can enable disable permissions for the apps from within these categories.

Special app access: Configure some app features and special permissions.

Security & Restrictions: You can allow or restrict installation of apps from sources other than the Google Play Store.

Apps

Using the options of this menu, you can manage the apps on your TV.

Recently opened apps

You can display recently opened apps. Highlight **See all apps** and press **OK** to see all the apps installed on your TV. The amount of storage space that they needed will also be displayed. You can see the version of the app, open or force to stop the running of the app, uninstall a downloaded app, see the permissions and turn them on/off, turn on/off the notifications, clear the data and cache, etc. Highlight an app and press **OK** or the Right directional button to see available options.

Changing the storage location of an app

If you did priorly format your USB storage device as device storage to extend the storage capacity of your TV, you can move the app to that device. For more information refer to the **Storage** section in the **Settings>System** menu.

Highlight the app you want to move and press **OK** to see available options. Then highlight the **Storage used** option and press **OK**. If the selected app is convenient you will see your USB storage device as an option for this app to be stored. Highlight that option and press **OK** to move the app.

Note that the apps that moved to a connected USB storage device will not be available if that device is disconnected. And if you format the device with the TV as removable storage, don't forget to back up the apps using the related option. Otherwise, the apps stored on that device will not be available after formatting. For more information refer to the **Storage** section in the **Settings>System** menu.

Permissions

Manage the permissions and some other features of the apps.

App permissions: The apps will be sorted by permission type categories. You can enable disable permissions for the apps from within these categories.

Special app access: Configure some app features and special permissions.

Security & Restrictions: You can allow or restrict installation of apps from sources other than the Google Play Store.

System

Accessibility: Configure Captions, Text to Speech settings and/or turn High Contrast Text and Accessibility shortcut on/off. Some of the caption settings may not be applied.

About: Check for system updates, change the device name, reset the TV to the factory defaults and display system information such as network addresses, serial numbers, versions, etc. You can also display legal information.

Reset: Reset all TV settings to the factory defaults. Highlight Reset and press OK. A confirmation message will be displayed, select Reset to proceed with resetting. A further confirmation message will be displayed, select Delete everything to factory reset the TV. The TV will switch off/on first and the initial setup will start. Select Cancel to exit.

Note: You may be asked to enter a PIN to proceed with the reset operation. Enter the PIN you have defined during the initial setup. If you didn't set a PIN during the initial setup, you can use the default PIN. The default PIN is 1234.

Netflix ESN: Displays your ESN number. ESN number is an unique ID number for Netflix, created especially to identify your TV.

Date & Time: Set the date and time options of your TV. You can set your TV to automatically update the time and date data over the network or over the broadcasts. Set corresponding to your environment and preference. Disable by setting as **Off** if you want to manually change the date or time. Then set date, time, time zone and hour format options.

Language: Set your language preference.

Keyboard: Select your keyboard type and manage keyboard settings.

Storage: View the total storage space status of the TV and connected devices if available. To see detailed information on the usage details highlight and press **OK**. There will also be options for ejecting and setting up the connected USB storage devices as device storage.

Eject: To keep your content safe, eject your USB storage device before you unplug it from your TV.

Set up as device storage: You can use the connected USB storage device to extend the storage capacity of your TV. After doing this, that device will only be usable with the TV. Follow the on-screen instructions and read the information displayed on the screen before proceeding.

Note: Formatting the connected storage device will erase all data installed on it. Back up the files that you want to keep before you proceed with formatting the device.

Set up as removable storage: If you did priorly format your USB storage device as device storage, it will only be usable with your TV. You can use this option to format it again in order to use it with other devices. Before proceeding with the formatting, you may consider backing up the data on your device to your TV's internal storage or to another USB storage device using the Back up apps option. Otherwise, some apps may not work properly after formatting. Follow the on-screen instructions and read the information displayed on the screen before proceeding.

Note: Formatting the connected storage device will erase all data installed on it. Back up the files that you want to keep before you proceed with formatting the device.

You can also go to the **Notifications** section on the Dashboard after connecting your USB device to your TV to see the available options. Highlight the notification related to your connected USB device and press **OK**.

Browse: Opens the Storage menu.

Set up as device storage: Same as described above.

Eject: Same as described above.

Ambient mode: When your TV isn't being used, Google TV Ambient Mode can transform the blank screen into a series of photos to brighten your space.

Power & Energy

Power on behaviour: Set your TV's power on behaviour. Depending on your selection, the TV will return to the Google TV home screen or the last used input when it is turned on.

Energy saver: Define a time after which you want your TV to turn itself off for energy saving. Set as **Never** to disable.

Power

Sleep Timer: Define a time after which you want your TV to enter sleep mode automatically. Set as **Off** to disable.

Picture Off: Select this option and press OK to turn the screen off. Press a button on the remote or on the TV to turn the screen on again. Note that you can not turn the screen on via the Volume +/-, Mute and Standby buttons. These buttons will function normally.

Auto Sleep: Define an idle time after which you want your TV to enter sleep mode automatically. 4 Hours, 6 Hours and 8 Hours options are available. Set as Never to disable.

Timer

Power On Time Type: Set your TV to turn on by itself. Set this option as On or Once to enable a power on timer to be set, set as Off to disable. If

set as **Once** the TV will turn on only once at the defined time in **Auto Power On Time** option below.

Auto Power On Time: Available if the Power On Time Type is enabled. Set the desired time for your TV to come on from standby using the directional buttons and press OK to save the new set time

Power Off Time Type: Set your TV to turn off by itself. Set this option as On or Once to enable a power off timer to be set, set as Off to disable. If set as Once the TV will turn off only once at the defined time in Auto Power Off Time option below.

Auto Power Off Time: Available if the Power Off Time Type is enabled. Set the desired time for your TV to go to standby using the directional buttons and press OK to save the new set time.

Cast: Set your remote control notification preference for showing a notification on all Android devices connected to your Wi-Fi and let them control media casting to this device. Always, While Casting and Never options will be available.

System Sounds: System sound is the sound played when navigating or selecting an item on the TV screen. Highlight this option and press **OK** to turn this function on or off.

Store Mode: Highlight Store mode and press OK. A dialogue will be displayed asking for your confirmation. Read the description, highlight Continue and press OK if you want to proceed. Then highlight On to activate or Off to deactivate and press OK. In store mode your TV's settings will be configured for store environment and the supported features will be displayed on the screen. Once activated, the Store Messaging setting will become available. Set according to your preference. It is recommended not to activate store mode for home use.

Restart: A confirmation message will be displayed, select **Restart** to proceed with restarting. The TV will switch off/on first. Select **Cancel** to exit.

Remotes & Accessories

You can use wireless accessories, such as your remote control (depends on the model of the remote control), headphones, keyboards or game controllers with your Google TV. Add devices to use them with your TV. Select this option and press **OK** to see available options. Highlight the **Pair accessory** option and press **OK** to start searching available devices in order to pair them with your TV. Set your device to pairing mode. Available devices will be recognised and listed or pairing request will be displayed. To start pairing, select your device from the list and press **OK**, or highlight **OK** and press **OK** when the pairing request appears.

Connected devices will also be listed here. To unpair a device, highlight it and press **OK** or the Right directional

button. Then highlight the **Forget** option and press **OK**. Then select **OK** and press **OK** again to unpair the device from the TV. If you have multiple devices paired with your TV, you can use the **Disconnect** option to disconnect the ones you're not using. You can also change the name of a connected device. Highlight **Rename** and press **OK**. Press **OK** again and use the virtual keyboard to change the name of the device.

Help & Feedback

You can use the **Send feedback** option to send your product feedback to Google.

Channel List

The TV sorts all stored channels in the channel list. Press the **OK** button to open the channel list in Live TV mode. You can press the Left directional button to scroll up the list page by page, or press the Right directional button to scroll down.

To sort the channel or find a channel in the channel list, press the **Green** button to display the **Channel Operation** options. Available options are **Sort** and **Find. Sort** option may not be available depending on the selected country during the initial setup process. To sort the channels highlight **Sort** and press the **OK** button. Select one of the available options and press **OK** again. The channels will be sorted according to your selection. To find a channel highlight **Find** and press the **OK** button. Virtual keyboard will be displayed. Enter all or a portion of the name or number of the channel you want to find, highlight the check mark symbol on the keyboard and press **OK**. Matching results will be listed.

To filter the channels press **Yellow** button. The **Select Type** menu options will be displayed. You can select among **TV**, **Radio**, **Free**, **Encrypted**, and **Favourites** options to filter the channel list or select **All channels** option to see all installed channels in the channel list. Available options may differ depending on the operator selection.

Note: If any option except All channels is selected in the Select Type menu, you can only scroll through the channels that are currently listed in the channel list using the Programme +/- buttons on the remote.

Editing the Channels and the Channel List

Press the Red button on the remote to access the Channel Management menu. You can edit the channels and the channel list using the options of this menu. The Channel Skip, Channel Swap, Channel Move, Channel Edit, and Channel Delete options may be available. You can also access the Channel Management menu from the Channels menu in Live TV mode.

Note: The options Channel Swap, Channel Move, Channel Edit and Channel Delete or the Channel Management menu may not be available or appear as greyed out depending

on the operator selection and operator related settings. You can turn off the LCN setting in the Settings>Channels & Inputs>Channels menu, as it prevents channel editing. This option might be set to On by default depending on the selected country during the initial setup process.

Managing Favourite Channel Lists

You can create four different lists of your favourite channels. These lists include only the channels that are specified by you. Press the **OK** button to display the channel list

To add a channel to one of the favourite lists, highlight that channel in the channel list and press the **Blue** button. Favourite list selection menu will be displayed. Highlight the list/s you want the channel to be added and press **OK**. The channel will be added to the selected favourite list/s.

To remove a channel from a favourite list highlight that channel in the channel list and press the **Blue** button. Favourite list selection menu will be displayed. Highlight the list/s you want the channel to be removed and press **OK**. The channel will be removed from the selected favourite list/s.

To set one of your favourite channel lists as the main channel list, press the Yellow button and set the Select Type option to Favourites. Then highlight the desired favourite list and press OK. In order to change the position of a channel in the favourite list press the Green button, then highlight the Move option and press OK. Then use the Up and Down directional buttons to move the channel to the desired position and then press OK. In order to delete a channel from the favourite list press the Green button, then highlight the Delete option and press OK.

Programme Guide

By means of Electronic Programme Guide (EPG) function of your TV, you can browse the event schedule of the currently installed channels on your channel list. It depends on the related broadcast whether this feature is supported or not.

Electronic Programme Guide is available in Live TV mode. To switch to Live TV mode you can either press the **Exit** button or highlight the **Live TV** app on the Home Screen and press **OK**. In order to access the Electronic Programme Guide press the **Guide** button on the remote.

Use the directional buttons to navigate through the programme guide. You can use the Up/Down directional buttons or **Programme +/-** buttons to switch to previous/next channel on the list and Right/ Left directional buttons to select a desired event of the currently highlighted channel. If available, the full name, start-end time and date, genre of the highlighted event and a brief information about it will be displayed on the screen.

Press the **Blue** button to filter the events. Due to the large variety of filter options you can find events of the desired type quicker. Press the **Yellow** button to see detailed information on the highlighted event. You can also use the **Red** and **Green** buttons to see events of previous day and next day. The functions will be assigned to the coloured buttons on the remote when they are available. Follow the on-screen information for accurate button functions

Press the **Record** button to add a timer for the highlighted event in the guide. You can define the type of the timer by setting the **Schedule type** option as **Reminder** or **Record**. When other parameters are set, press the **Green** button. The timer will be added to the schedule list. You can access the schedule list from the **Record** menu in Live TV mode

The guide can not be displayed if **DTV** input source is blocked from the **TV Options>Parental Controls>Inputs Blocked** menu in Live TV mode.

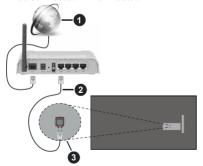
Connecting to the Internet

You can access the Internet via your TV, by connecting it to a broadband system. It is necessary to configure the network settings in order to enjoy a variety of streaming content and internet applications. These settings can be configured from the Settings>Network & Internet menu. For further information refer to the Network & Internet section under the title of Settings.

Wired Connection

Connect your TV to your modem/router via an Ethernet cable. There is a LAN port on the rear side of your TV.

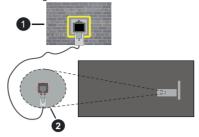
The status of the connection under the **Ethernet** section in the **Network & Internet** menu will change from **Not connected** to **Connected**.



- 1. Broadband ISP connection
- 2. LAN (Ethernet) cable
- 3. LAN input on the rear side of the TV

You might be able to connect your TV to a network wall socket depending on your network's configuration.

In that case, you can connect your TV directly to the network using an Ethernet cable.



- Network wall socket
- 2. LAN input on the rear side of the TV

Wireless Connection

A wireless LAN modem/router is required to connect the TV to the Internet via wireless LAN.

Highlight the **Wi-Fi** option in the **Network & Internet** menu and press **OK** to enable wireless connection. Available networks will be listed. Select one and press **OK** to connect. For more information refer to the **Network & Internet** section under the title of **Settings**.



1. Broadband ISP connection

A network with hidden SSID (network name) can not be detected by other devices. If you want to connect to a network with hidden SSID, highlight the **Add new network** option under the **Network & Internet** menu and press **OK**. Add the network by entering its name manually using the related option.

Some networks may have an authorisation system that requires a second login as such in a work environment. In this case, after connecting to the wireless network you want to connect to, highlight **Notifications** situated on the Dashboard and press **OK**. Then highlight the "Sign in to Wi-Fi network" notification and press **OK**. Enter your credentials to log in.

A Wireless-N router (IEEE 802.11a/b/g/n/ac) with simultaneous 2.4 and 5 GHz bands is designed to increase bandwidth. These are optimised for smoother

and faster HD video streaming, file transfers and wireless gaming.

Use a LAN connection for quicker data transfer between other devices like computers.

The transmission speed differs depending on the distance and number of obstructions between the transmission products, the configuration of these products, the radio wave conditions, the line traffic and the products that you use. The transmission may also be cut off or may get disconnected depending on the radio wave conditions, DECT phones or any other WLAN 11b appliances. The standard values of the transmission speed are the theoretical maximum values for the wireless standards. They are not the actual speeds of data transmission.

The location where the transmission is most effective differs depending on the usage environment.

The Wireless feature of the TV supports 802.11 a,b,g,n & ac type modems. It is highly recommended that you should use the IEEE 802.11n communication protocol in order to avoid any possible problems while watching videos.

You must change your modem's SSID when there are any other modems around with the same SSID. You can encounter connection problems otherwise. Use a wired connection if you experience problems with a wireless connection.

A stable connection speed is required to play back streaming content. Use an Ethernet connection if the wireless LAN speed is unstable.

Multi Media Player

On the Home Screen select Multi Media Player (MMP) and press the **OK** button to launch. Select the media type on the main media player screen. On the next screen, you can press the Menu button to access a list of menu options while the focus is on a folder or a media file. Using the options of this menu you can change the media type, sort the files, change the thumbnail size and turn your TV into a digital photo frame. You will also be able to copy, paste and delete the media files using the related options of this menu, if a FAT32 formatted USB storage device is connected to the TV. Additionally you can switch the viewing style by selecting either Normal Parser or Recursive Parser. In Normal Parser mode the files will be displayed with folders if any available. So only the selected type of media files in the root folder or in the selected folder will be displayed. If there isn't any media files of the selected type, the folder will be assumed as empty. In Recursive Parser mode the source will be searched for all available media files of the selected type and the found files will be listed. Press the Back/Return button to close this menu

In order to activate photo frame feature select **Photo** as the media type. Then press the **Menu** button, highlight **Photo Frame** and press **OK**. If you select the **One Photo mode** option and press **OK**, the image that you set as photo frame image earlier will be displayed when photo frame feature is activated. If you select the USB storage device option the first file (in **Recursive Parser** mode) will be displayed. To set the photo frame image press the **Menu** button while the photo file of your choice is displayed, highlight **Photo Frame Image** and press **OK**.

Additionally, you can toggle between browsing modes by pressing the **Blue** button. List View and Grid View modes are available. While browsing for the video, photo and text files a preview of the highlighted file will be displayed in a small window on the left side of the screen if the browse mode is set to List View. You can also use the **Programme +/-** buttons to jump directly to the first and last folder or file if the view style is set to Grid View.

You can also enable or disable the USB Auto Play feature by pressing the **Yellow** button. Using this feature you can set your TV to start playing the media content installed on a connected USB storage device automatically. Refer to the **USB Auto Play Feature** section for more information.

Video Files

Press **OK** to play back the highlighted video file.

Info: Display the info bar. Press twice to display the extended information and the next file.

Pause/Play: Pause and resume the playback.

Rewind: Start reverse playback. Press consecutively to set the rewind speed.

Fast Forward: Start fast forward playback. Press consecutively to set the forward playback speed.

Stop: Stop the playback.

Programme +: Switch to next file.

Programme -: Switch to previous file.

Back/Return: Return to the media player screen.

Music Files

Press **OK** to play back the highlighted music/audio file.

Info: Display the extended information and the next file.

Pause/Play: Pause and resume the playback.

Rewind: Press and hold to rewind.

Fast Forward: Press and hold to fast forward.

Stop: Stop the playback.

Programme +: Switch to next file.

Programme -: Switch to previous file.

Back/Return: Return to the media player screen.

If you press the **Back/Return** button without stopping the playback first, the playback will continue while

you are browsing in the multimedia player. You can use the media player buttons to control the playback. The playback will stop if you exit the media player or switch the media type to **Video**.

Photo Files

Press **OK** to display the highlighted photo file. When you press the **OK** button as a second time, slide show will also start and all photo files in the current folder or in the storage device, depending on the viewing style, will be displayed in order. If the **Repea** toption is set to **None**, only the files between the highlighted one and the last listed one will be displayed. Press the **OK** or **Pause/Play** button to pause or resume the slide show. The slide show will stop after the last listed file is displayed and media player screen will be displayed.

Info: Display the info bar. Press twice to display the extended information and the next file.

OK or Pause/Play: Pause and resume the slide show.

Green button (Rotate/Duration): Rotate the image / Set the interval between the slides.

Yellow button (Zoom/Effect): Zoom in on the image / Apply various effects to the slide show.

Programme +: Switch to next file.

Programme -: Switch to previous file.

Back/Return: Return to the media player screen.

Text Files

When you press the **OK** button, slide show will start and all text files in the current folder or in the storage device, depending on the viewing style, will be displayed in order. If the **Repeat** option is set to **None**, only the files between the highlighted one and the last listed one will be displayed. Press the **OK** or **Pause**/ **Play** button to pause or resume the slide show. The slide show will stop after the last listed file is displayed and media player screen will be displayed.

Info: Display the info bar. Press twice to display the extended information and the next file.

OK or Pause/Play: Pause and resume the slide show.

Programme +: Switch to next file.

Programme -: Switch to previous file.

Directional buttons (Down or Right / Up or Left): Switch to next page / Switch to previous page.

Back/Return: Stop the slide show and return to the media player screen.

Menu Options

Press the **Menu** button to see available options while playing back or displaying media files. The content of this menu differs depending on the media file type.

Pause/Play: Pause and resume the playback or the slide show.

Repeat: Set the repeat option. Highlight an option and press OK to change the setting. If the Repeat One option is selected, the current media file will be repeatedly played back or displayed. If the Repeat All option is selected all media files of the same type in the current folder or in the storage device, depending on the viewing style, will be repeatedly played back or displayed.

Shuffle On/Off: Turn the shuffle option on or off. Press **OK** to change the setting.

Duration: Set the interval between the slides. Highlight an option and press **OK** to change the setting. You can also press the **Green** button to set. This option will not be available if the slide show is paused.

Rotate: Rotate the image. The image will be rotated 90 degrees clockwise each time you press **OK**. You can also press the **Green** button to rotate. This option will not be available if the slide show is not paused.

Effect: Apply various effects to the slide show. Highlight an option and press **OK** to change the setting. You can also press the **Yellow** button to set. This option will not be available if the slide show is paused.

Zoom: Zoom in on the image that is currently being displayed. Highlight an option and press **OK** to change the setting. You can also press the **Yellow** button to zoom in. This option will not be available if the slide show is not paused.

Font: Set the font options. Size, style and colour can be set according to your preferences.

Show Info: Display the extended information.

Photo Frame Image: Set the currently displayed image as photo frame image. This image will be displayed if the One Photo mode option is selected instead of the connected storage device while activating the photo frame feature. Otherwise all files will be played back as a slide show when photo frame feature is activated.

Hide/Show Spectrum: Hide or show the spectrum if available

Lyric Options: Display lyric options if available.

Picture Off: Open the power menu of your TV. You can use the **Picture off** option here to turn the screen off. Press a button on the remote or on the TV to turn the screen on again.

Screen Mode: Set the aspect ratio option.

Picture Settings: Display the picture settings menu.

Sound Settings: Display the sound settings menu.

Sound Tracks: Set the soundtrack option if more then one available.

Last Memory: Set to **Time** if you want to resume the playback from the position where it was stopped next time you open the same video file. If set to **Off** the

playback will start from the beginning. Highlight an option and press **OK** to change the setting.

Seek: Jump to a specific time of the video file. Use the numeric and directional buttons to enter the time and press **OK**.

Subtitle Encoding: Display subtitle encoding options if available

From USB Connection

IMPORTANT! Back up the files on your USB storage devices before connecting them to the TV. Manufacturer will not be responsible for any file damage or data loss. Certain types of USB devices (e.g. MP3 Players) or USB hard disk drives/memory sticks may not be compatible with this TV. The TV supports FAT32 disk formatting, NTFS is not supported. FAT32 formatted devices with a storage capacity larger than 2TB are not supported. Files larger than 4 GB are not supported.

You can view your photos, text documents or play your music and video files installed on a connected USB storage device on the TV. Plug in the USB storage device to one of the USB inputs on the TV.

On the main media player screen select the desired media type. On the next screen, highlight a file name from the list of available media files and press the **OK** button. Follow the on-screen instructions for more information on other available button functions.

Note: Wait a little while before each plugging and unplugging as the player may still be reading files. Failure to do so may cause physical damage to the USB player and the USB device itself. Do not pull out your drive while playing a file.

USB Auto Play Feature

This feature is used to start playing the media content installed on a removable device automatically. It uses the Multi Media Player application. The media content types have different priorities in order to be played. The reducing priority order is as Photo, Video and Audio. That means, if there is Photo content in the removable device, the Multi Media Player will play the Photos in a sequence (in file name order) instead of Video or Audio files. If not, it will be checked for Video content and as last Audio.

You can enable the USB Auto Play feature from within the Multi Media Player app. Launch the application on the Home Screen and press the **Yellow** button on the remote to enable or disable this feature. If the feature is enabled while the USB device is already connected, unplug the device and then plug it back in to activate the feature.

This feature will only work if all of the following circumstances occur:

- The USB Auto Play feature is enabled
- The USB device is plugged in
- · Playable content is installed on the USB device

If more than one USB device is connected to the TV, the last one plugged in will be used as content source.

USB Recording ()**

To record a programme, you should first connect a USB storage device to your TV while the TV is switched off. You should then switch on the TV to enable the recording feature.

To record long duration programmes such as movies, it is recommended to use USB Hard disk drives (HDD's). Recorded programmes are saved onto the connected USB storage device. If desired, you can store/copy recordings onto a computer; however, these files will not be available to be played on a computer. You can play the recordings only via your TV.

Lip Sync delay may occur during the timeshifting. Radio record is supported.

If the writing speed of the connected USB storage device is not sufficient, the recording may fail and the timeshifting feature may not be available.

It is recommended to use USB hard disk drives for recording HD programmes.

Do not pull out the USB/HDD during a recording. This may harm the connected USB/HDD.

Some stream packets may not be recorded because of signal problems, as a result sometimes videos may freeze during playback.

If a recording starts from timer when teletext is on, a dialogue will be displayed. If you highlight **Yes** and press **OK** teletext will be turned off and recording will start.

The recording function has been designed for private use and entertainment in your environment.

Please note that any commercial use of the recording function could lead to copyright infringement of authors' rights. Toshiba asks you to respect the intellectual property rights of third parties.

Instant Recording

Press the **Record** button to start recording an event instantly while watching a programme. Press the **Stop** button to stop and save the instant recording.

You can not switch broadcasts during the recording mode. A dialogue will be displayed if you try to switch to another channel. Highlight **Yes** and press **OK** to stop the recording and switch the channel.

Watching Recorded Programmes

Select **Record List** from the **Record** menu in Live TV mode and press **OK**. Select a recorded item from the list (if previously recorded). Press the **OK** button to watch

Press the **Stop** or **Back/Return** button to stop a playback.

The recordings will be named in the following format: Channel Name_Date(Year/Month/Day)_Programme Name

Timeshift Recording

In order to use timeshift recording feature the Time Shift Mode option in the Record>Time Shift Mode menu should be enabled first

In timeshifting mode, the programme is paused and simultaneously recorded to the connected USB storage device. Press the **Pause/Play** button while watching a broadcast to activate timeshifting mode. Press the **Pause/Play** button again to resume the paused programme from where you stopped. Press the **Stop** button to stop timeshift recording and return to the live broadcast

When this feature is used for the first time **Disk Setup** wizard will be displayed when the **Pause/Play** button is pressed. You can either choose **Auto** or **Manual** setup mode. In **Manual** mode, if you prefer, you can format your USB storage device and specify the storage space that will be used for timeshift function. When the setup is complete, the **Disk Setup Result** will be displayed. Press the **Back/Return** button to exit

Timeshift function will not be available for radio broadcasts

Disk Format

When using a new USB storage device, it is recommended that you first format it using the Format option in the Record>Device Info menu in Live TV mode. Highlight the connected device on the Device Info screen and press OK or the Right directional button to see the list of available options. Then highlight Format and press OK to proceed. A confirmation dialogue will be displayed. Highlight Yes and press OK to start formatting.

IMPORTANT: Formatting your USB storage device will erase ALL the data on it and its file system will be converted to FAT32. In most cases operation errors will be fixed after a format but you will lose ALL your data.

Schedule List

You can add reminders or record timers using the Schedule List menu. You can access the Schedule List from the Record menu in Live TV mode. Highlight Schedule List and press OK. Previously set timers will be listed if any available. Otherwise, a dialogue will be displayed. Highlight Add and press OK to add a timer.

Press the Yellow button to add a timer while the Schedule List menu is displayed on the screen. You can define the type of the timer by setting the Schedule Type option as Reminder or Record. When other parameters are set press the Green button. The timer will be added to the list.

If any available, you can also edit or delete the timers on this list. Highlight the timer of your choice and press the **Red** button to edit. After you edited the timer press the **Green** button to save changes. Highlight the timer of your choice and press the **Blue** button to delete. When you choose to delete a timer a confirmation dialogue will be displayed on the screen. Highlight **Yes** and press **OK** to delete the selected timer.

A warning message will be displayed asking whether you want to replace timers, if the time intervals of two timers overlap. You can not set more than one timer for the same time interval. To replace the old timer with the new one, highlight **Yes** and press **OK**. Highlight **No** and press **OK** to edit the last created timer.

Press the EXIT button to close the Schedule List.

CEC

With CEC function of your TV you can operate a connected device with the TV remote control. This function uses HDMI CEC (Consumer Electronics Control) to communicate with the connected devices. Devices must support HDMI CEC and must be connected with an HDMI connection.

In order to make use of the CEC functionality the related option in the menu should be switched on. To check, switch on or off the CEC function, do the following:

- Enter the Settings>Channels & Inputs>Inputs
 menu on the Dashboard or the TV options>Settings>Channels & Inputs>Inputs menu in Live
 TV mode
- Scroll down to the Consumer Electronic Control (CEC) section. Check if the HDMI control option is switched on.
- Highlight the HDMI control option and press OK to switch on or off.

Make sure that all CEC settings are properly set up on the connected CEC device. The CEC functionality has different names on different brands. CEC function might not work with all devices. If you connect a device with HDMI CEC support to your TV, the related HDMI input source will be renamed with the connected device's name.

To operate the connected CEC device, select the related HDMI input source from the **Inputs** menu on the Dashboard. Or press the **Source** button if the TV is in Live TV mode and select the related HDMI input source from the list. To terminate this operation and control the TV via the remote again, press the **Source** button, which will still be functional, on the remote and switch to another source.

The TV remote is automatically able to control the device once the connected HDMI source has been selected. However not all buttons will be forwarded

to the device. Only devices that support CEC Remote Control function will respond to the TV remote control.

The TV supports also eARC (Enhanced Audio Return Channel) feature. Similar to ARC, the eARC feature enables the transfer of the digital audio stream from your TV to a connected audio device via the HDMI cable. eARC is an improved version of ARC. It has a much higher bandwidth than its predecessor. Bandwidth represents the range of frequencies or amount of data that is being transferred at a time. Higher bandwidth translates into a higher amount of data that can be transferred. Higher bandwidth also means that digital audio signal doesn't have to be compressed and is much more detailed, rich, and vibrant

When eARC is enabled from the sound menu, TV first tries to establish eARC link. If eARC is supported by the connected device, the output turns into eARC mode and the "eARC" indicator can be observed on the connected device's OSD. If an eARC link cannot be established (for example, the connected device is not supporting eARC but supporting ARC only) or if eARC is disabled from the sound menu, then TV initiates ARC

In order to activate ARC feature the **eARC** option should be set as **Auto**. You can access this option from the **TV** options>Sound menu in Live TV mode or from the **Settings>Display & Sound>Sound** menu on the Dashboard. When eARC is active, TV will mute its other audio outputs automatically. So you will hear audio from the connected audio device only. The volume control buttons of the remote will be directed to the connected audio device and you will be able to control the volume of the connected device with your TV remote.

For eARC to function properly;

- The connected audio device should also support eARC.
- Some HDMI cables do not have enough bandwidth to carry high-bit-rate audio channels, use an HDMI cable with eARC support (HDMI High Speed Cables with Ethernet and the new Ultra High Speed HDMI Cable - check hdmi.org for latest info).

Note: eARC is supported only via the HDMI2 input.

Google Cast

With the built-in Google Cast technology you can cast the content from your mobile device straight to your TV. If your mobile device has Google Cast feature, you can mirror your device's screen to your TV wirelessly. Select Cast screen option on your android device. Available devices will be detected and listed. Select your TV from the list and tap on it to start casting. You can get the network name of your TV from the Settings>System>About menu on the Dashboard.

Device name will be one of the shown options. You can also change the name of your TV. Highlight Device name and press OK. Then highlight Change and press OK again. You can either select one of the predefined names or enter a custom name.

To cast your device's screen to the TV screen...

- On your android device, go to 'Settings' from the notification panel or home screen
- 2. Tap on 'Device Connectivity'
- Tap on the 'Easy projection' and enable 'Wireless projection'. Available devices will be listed
- 4. Select the TV you would like to cast to

or

- 1. Slide down the notification panel
- 2. Tap on 'Wireless projection'
- 3. Select the TV you would like to cast to

If the mobile app is Cast-enabled, such as YouTube, Dailymotion, Netflix, you can cast your app to your TV. On the mobile app, look for the Google Cast icon and tap on it. Available devices will be detected and listed. Select your TV from the list and tap on it to start casting.

To cast an app to the TV screen...

- On your smartphone or tablet, open an app that supports Google Cast
- 2. Tap the Google Cast icon
- 3. Select the TV you would like to cast to
- 4. The app you selected should start playing on TV **Notes:**

Google Cast works on Android and iOS. Make sure that your mobile device is connected to the same network as your TV.

The menu options and namings for Google Cast function on your Android device can differ from brand to brand and can change with time. Refer to your device's manual for latest information on Google Cast function.

HBBTV System

HbbTV (Hybrid Broadcast Broadband TV) is a standard that seamlessly combines TV services delivered via broadcast with services delivered via broadband and also enables access to the Internet only services for consumers using connected TVs and set-top boxes. Services delivered through HbbTV include traditional broadcast TV channels, catch-up services, video on demand, electronic programme guide, interactive advertising, personalisation, voting, games, social networking and other multimedia applications.

HbbTV applications are available on channels where they are signalled by the broadcaster.

The HbbTV applications are generally launched with the press of a coloured button on the remote. Generally a small red button icon will appear on the screen in order to notify the user that there is an HbbTV application on that channel. Press the button indicated on the screen to launch the application.

HbbTV applications use the buttons on the remote control to interact with the user. When an HbbTV application is launched, the control of some buttons are owned by the application. For example, numeric channel selection may not work on a teletext application where the numbers indicate teletext pages.

HbbTV requires AV streaming capability for the platform. There are numerous applications providing VOD (video on demand) and catch-up TV services. The OK (play&pause), Stop, Fast forward, and Rewind buttons on the remote control can be used to interact with the AV content

Note: You can enable or disable this feature from the TV
Options>Advanced Options>HBBTV Settings menu in
Live TV mode

Quick Standby Search

If the Auto Channel Update option in the Settings>Channels & Inputs>Channels menu is enabled the TV will wake up within 5 minutes after it is switched into quick standby mode and search for channels. Standby LED will blink during this process. Once the standby LED stops blinking the search process is completed. Any new found channels will be added to the channel list. If the channel list is updated, you will be informed on the changes at the next power on.

Software Update

Your TV is capable of finding and updating the software automatically via Internet.

To experience the best use of your TV and benefit from the latest improvements make sure your system is always up to date.

Software update via internet

Your TV will check Google Server to see if any update is available (GOTA). If new software is found, it will be downloaded automatically in the background. When the download is completed, a message indicating the new software will be displayed on the screen for a few seconds and then it will disappear. You can check the notifications section on the Dashboard to see the related information.

The downloaded software will be installed automatically the next time the TV is switched on. You can also go to the **Settings>System>About** menu, highlight **Restart now**, and press **OK** to execute the installation immediately.

To check for an update manually, enter the **Settings>System>About** menu. The TV will check to see if any update is available. When completed, you will be informed about the current system status and the time

at which the device was last checked for an update. The **Check for update** option will be highlighted. Press **OK** if you want to check again.

Note: Do not unplug the power cord during the software upgrade process. If the TV fails to come on after the upgrade, unplug, wait for two minutes then plug it back in.

Troubleshooting & Tips

TV does not switch on

- Make sure the power cord is plugged in securely to the power outlet.
- Disconnect the power cord from the power outlet.
 Wait for one minute then reconnect it.
- Press the Standby/On button on the TV.

TV does not respond to the remote control

- The TV requires some time to start up. During this time, the TV does not respond to the remote control or TV controls. This is normal behaviour.
- Check if the remote control is working by means of a mobile phone camera. Put the phone in camera mode and point the remote control to the camera lens. If you press any key on the remote control and you notice the infra red LED flicker through the camera, the remote control is working. The TV needs to be checked.

If you do not notice the flickering, the batteries may be exhausted. Replace the batteries. If the remote is still not working, the remote control might be broken and needs to be checked.

This method of checking the remote control is not possible with remote controls which are wirelessly paired with the TV.

No Channels

- Make sure that all cables are properly connected and that the correct network is selected.
- · Make sure that the correct channel list is selected.
- Make sure that you have entered the correct channel frequency if you have done manual tuning.

No picture / distorted picture

- Make sure that the antenna is properly connected to the TV.
- Make sure that the antenna cable is not damaged.
- Make sure that the correct device is selected as the input source.
- Make sure that the external device or source is properly connected.
- Make sure that the picture settings are set correctly.
- Loud speakers, unearthed audio devices, neon lights, high buildings and other large objects can influence reception quality. If possible, try to improve

the reception quality by changing the antenna direction or moving devices away from the TV.

- Change to a different picture format, if the picture does not fit the screen
- Make sure that your PC uses the supported resolution and refresh rate.

No sound / poor sound

- Make sure that the sound settings are correctly set.
- Make sure that all cables are properly connected.
- Make sure that the volume is not muted or set to zero, increase the volume to check.
- Make sure that the TV audio output is connected to the audio input on the external sound system.
- Sound may be coming from only one speaker.
 Check the balance settings from the Display & Sound menu.

Input sources - can not be selected

- · Make sure that the device is connected to the TV.
- · Make sure that all cables are properly connected.
- Make sure that you select the right input source which is dedicated to the connected device.
- Make sure that the right input source is not hidden from the Channels & Inputs menu.

HDMI Signal Compatibility

Source	Supported Signals			
	480i	60Hz		
	480p	60Hz		
	576i, 576p	50Hz		
	720p	50Hz,60Hz		
	1080i	50Hz,60Hz		
номі	1080p	24Hz, 25Hz, 30Hz, 50Hz, 60Hz		
	3840x2160p	24Hz, 25Hz, 30Hz, 50Hz, 60Hz		
	4096x2160p	24Hz, 25Hz, 30Hz, 50Hz, 60Hz		

In some cases a signal on the TV may not be displayed properly. The problem may be an inconsistency with standards from the source equipment (DVD, Set-top box, etc.). If you do experience such a problem please contact your dealer and also the manufacturer of the source equipment.

Supported File Formats for USB Mode

Video Decoder

Video Codec	Resolution	Bit Rate	Profile	Container
VP9	4096x2176@60fps	100Mbps	Profile 0 (420 8-bit) Profile 2, (420, 10-bit)	MKV (.mkv), WebM (.webm)
HEVC/H.265	4096x2176@60fps	100Mbps	Main (8-bit)/Main10 (10-bit) Profile, High Tier @ Level 5.1	MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), MPEG transport stream (.ts, .trp, .tp), MKV (.mkv), FLV (.flv), AVI (.avi), H265 (.265)
MPEG1/2	1920x1080@60fps	80Mbps	MP@HL	MPEG program stream (.DAT, .VOB, .MPEG, .MPEG), MPEG transport stream (.ts, .trp, .tp), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), AVI (.avi), MKV (.mkv), ASF (.asf), WMV (.wmv), OGM (.ogm)
MPEG4	1920x1080@60fps	40Mbps	Simple Profile Advanced Simple Profile @Level 5 GMC is not supported	MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), AVI (.avi), MKV (.mkv), ASF (.asf), WMV (.wmv), FLV (.flv), OGM (.ogm), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG)
Sorenson H.263	1920x1080@60fps	40Mbps		FLV (.flv), AVI (.avi)
H.263	1920x1080@60fps	40Mbps	Baseline Profile Only	FLV (.flv), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), AVI (.avi), ASF (.asf), WMV (.wmv)
H.264	4096x2304@60fps	135Mbps	Main and high profile up to level 5.2	FLV (.flv), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), MPEG transport stream (.ts, .trp, .tp), ASF (.asf), WMV (.wmv), AVI (.avi), MKV (.mkv), OGM (.ogm), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), H264 (.264)
AVS	1920x1080@60fps	50Mbps	Jizhun profile @ Level 6.0	MPEG transport stream (.ts, .trp, .tp), AVS (.avs)
AVS+	1920x1080@60fps	50Mbps	Broadcasting Profile @ Level 6.0.1.08.60	MPEG transport stream (.ts, .trp, .tp), AVS (.avs)
AVS2	4096x2176@60fps	100Mbps	Main (8-bit)/Main10 (10-bit) Profile @Level 8.0.60	MPEG transport stream (.ts, .trp, .tp), AVS2 (.avs2)
WMV3	1920x1080@60fps	40Mbps		ASF (.asf), AVI (.avi), MKV (.mkv), WMV (.wmv), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov), OGM (.ogm)
VC1	1920x1080@60fps	40Mbps	Advanced Profile @ Level 3 Simple Profile Main Profile	MPEG transport stream (.ts, .trp, .tp), ASF (.asf), WMV (.wmv), AVI (.avi), MKV (.mkv), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov), VC1 (.vc1)
Motion JPEG	1920x1080@30fps	40Mbps		AVI (.avi), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov), MKV (.mkv), FLV (.flv), OGM (.ogm)
VP8	1920x1080@60fps	50Mbps		MKV (.mkv), WebM (.webm), FLV (.flv), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov), AVI (.avi), OGM (.ogm)
RV30/RV40	1920x1080@60fps	40Mbps		RM (.rm, .rmvb), MKV (.mkv)
AV1	4096x2176@60fps	100Mbps	Main Profile @Level 5.1	MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), MKV (.mkv), WebM (.webm)

Video Encoder

Video Codec	Max Resolution	Max Bit Rate	Profile	Note
H.264	1920x1080@30fps	12Mbps	Main profile, level 4.1	Hardware video encoder

Audio

Audio Codec	Sample rate	Channel	Bit Rate	Container	Note
MPEG1/2 Layer1	16KHz ~ 48KHz	Up to 2	32Kbps ~ 448Kbps	MP3 (.mp3), AVI (.avi), ASF (.asf), WMV (.wmv), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), FLV (.fiv), WAV (.wav), OGM (.ogm)	
MPEG1/2 Layer2	16KHz ~ 48KHz	Up to 2	8Kbps ~ 384Kbps	MP3 (.mp3), AVI (.avi), ASF (.asf), WMV (.wmv), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, VOB, .MPG, .MPEG), FLV (.fiv), WAV (.wav), OGM (.ogm)	
MPEG1/2/2.5 Layer3	8KHz ~ 48KHz	Up to 2	8Kbps ~ 320Kbps	MP3 (.mp3), AVI (.avi), ASF (.asf), WMV (.wmv), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), FLV (.fiv), WAV (.wav), OGM (.ogm)	
AC3(DD)	32KHz, 44.1KHz, 48KHz	Up to 5.1	32Kbps ~ 640Kbps	AC3 (.ac3), AVI (.avi), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), WMV (.wmv), ASF (.asf), OGM (.ogm)	
EAC3(DDP)	32KHz, 44.1KHz, 48KHz	Up to 5.1	32Kbps ~ 6Mbps	EAC3 (.ec3), AVI (.avi), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), WMV (.wmv), ASF (.asf), OGM (.ogm)	
AAC-LC, HEAAC	8KHz ~ 48KHz	Up to 5.1	AAC-LC: 12Kbps~ 576Kbps V1 6Kbps ~ 288Kbps V2: 3Kbps ~ 144Kbps	AAC (.aac), AVI (.avi), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), FLV (.fiv), RM (.rm, .rmvb, .ra), WAV (.wav), WMV (.wmv), ASF (.asf), OGM (.ogm)	
WMA	8KHz ~ 48KHz	Up to 2	128Kbps ~ 320Kbps	ASF (.asf), WMV (.wma, .wmv), AVI (.avi), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov)	WMA 7, WMA 8, WMA 9 Standard
WMA 10 Pro M0	8KHz ~ 48KHz	Up to 2	< 192Kbps	ASF (.asf), WMV (.wma, .wmv), AVI (.avi), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov)	
WMA 10 Pro M1	8KHz ~ 48KHz	Up to 5.1	< 384Kbps	ASF (.asf), WMV (.wma, .wmv), AVI (.avi), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov)	

Audio Codec	Sample rate	Channel	Bit Rate	Container	Note
WMA 10 Pro M2	8KHz ~ 96KHz	Up to 5.1	< 768Kbps	ASF (.asf), WMV (.wma, .wmv), AVI (.avi), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov)	
VORBIS	Up to 48KHz	Up to 2		MKV (.mkv, .mka), WebM (.webm), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), Ogg (.ogg), WMV (.wmv), ASF (.asf), AVI (.avi)	Supports stereo decoding only
DTS	Up to 48KHz	Up to 5.1	< 1.5Mbps (Pure DTS core)	MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), WAV (.wav), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), AVI (.avi), OGM (.ogm), DTS (.dts)	
DTS LBR	12KHz, 22KHz, 24KHz, 44.1KHz, 48KHz	Up to 5.1	Up to 2Mbps	MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp), MPEG transport stream (.ts, .trp, .tp)	
DTS XLL	Up to 96KHz	Up to 6	Up to 6.123Mbps	MPEG transport stream (.ts, .trp, .tp), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp)	
DTS Master Audio	Up to 48KHz	Up to 6	Up to 24.537Mbps	MPEG transport stream (.ts, .trp, .tp), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp)	only decode DTS core
LPCM	8KHz ~ 48KHz	Mono, Stereo, 5.1	64Kbps ~ 1.5Mbps	WAV (.wav), AVI (.avi), MKV (.mkv, .mka), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), MPEG transport stream (.ts, .trp, .tp), MPEG program stream (.DAT, .VOB, .MPG, .MPEG), WMV (.wmv), ASF (.asf), FLV (.flv), OGM (.ogm)	
IMA-ADPCM MS- ADPCM	8KHz ~ 48KHz	Up to 2	32Kbps~ 384Kbps	WAV (.wav), AVI (.avi), MKV (.mkv, .mka), OGM (.ogm)	
G711 A/mu-law	8KHz	1	64Kbps	WAV (.wav), AVI (.avi), MKV (.mkv, .mka), FLV (.flv)	
LBR (cook)	8KHz, 11.025KHz, 22.05KHz, 44.1KHz	Up to 5.1	6Kbps ~ 128Kbps	RM (.rm, .rmvb, .ra)	
FLAC	8KHz~96KHz	Up to 7.1	< 1.6Mbps	MKV (.mkv, .mka), FLAC (.flac)	
OPUS	8KHz ~ 48KHz	Up to 6	6Kbps ~ 510Kbps	MKV (.mkv, .mka), WebM (.webm)	
AC4	44.1KHz, 48KHz	Up to 5.1 (MS12 v1.x) Up to 7.1 (MS12 v2.x)	Up to 1521Kbps Per Presentation	MPEG transport stream (.ts, .trp, .tp), 3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a), AC4 (.ac4)	
Fraunhofer MPEG-H TV Audio System	32KHz, 44.1KHz, 48KHz	Up to 16 core channels Up to 5.1 Channels Output	~1.2 Mbps	3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a)	
AMR-NB	8KHz	1	4.75~ 12.2Kbps	3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a)	
AMR-WB	16KHz	1	6.6 ~ 23.85Kbps	3GPP (.3gpp, .3gp), MP4 (.mp4, .mov, m4a)	

Picture

Image	Photo	Resolution (width x height)
JPEG	Base-line	15360 x 8640
JFEG	Progressive	1024 x 768
PNG		9600 x 6400
BMP		9600 x 6400
GIF		6400 x 4800
WebP		3840 x 2160
HEIF		4000 x 3000

Subtitle

Internal

File Extension	Container	Subtitle Codec
ts, trp, tp	TS	DVB Subtitle Teletext CC(EIA608) PGS
mp4	MP4	VobSub PGS TX3G
mkv	MKV	ASS SSA SRT VobSub PGS

External

File Extension	Subtitle Parser	Remark
.srt	SubRip	
.ssa/.ass	SubStation Alpha Advanced SubStation Alpha	
.smi	SAMI	
.sub	MicroDVD SubIdx (VobSub)	
.txt	TMPlayer	

Supported DVI Resolutions

When connecting devices to your TV's connectors by using a DVI converter cable (DVI to HDMI cable - not supplied), you can refer to the following resolution information.

	56Hz	60Hz	66Hz	70Hz	72Hz	75Hz
640x480		х				х
800x600	х	х				х
1024x768		х		х		х
1280x768		х				х
1280x960		х				
1360x768		х				
1366x768		х				
1280x1024		х		х		х
1400x1050		х				
1600x900		х				

Wireless LAN Transmitter Specifications

Frequency Ranges	Max Output Power
2400 - 2483,5 MHz (CH1 - CH13)	< 100 mW
5150 - 5250 MHz (CH36 - CH48)	< 200 mW
5250 - 5350 MHz (CH52 - CH64)	< 200 mW
5470 - 5725 MHz (CH100 - CH140)	< 200 mW

Country Restrictions

The Wireless LAN equipment is intended for home and office use in all EU countries, the UK and Northern Ireland (and other countries following the relevant EU and/or UK directive). The 5.15 - 5.35 GHz band is restricted to indoor operations only in the EU countries, in the UK and Northern Ireland (and other countries following the relevant EU and/or UK directive). Public use is subject to general authorisation by the respective service provider.

Country	Restriction
Russian Federation	Indoor use only

The requirements for any country may change at any time. It's recommended that user checks with local authorities for the current status of their national regulations for both 2.4 GHz and 5 GHz wireless LAN's.

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[1] EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the television.

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Disposal Information

The following information is only for EU-member states:

Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recvoling centres.

The black bar indicates that the product was placed on the market after August 13, 2005.

By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health

For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

Disposal of batteries and/or accumulators

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.

If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the European Battery Directive, then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.

By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health. For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.



REACH information

The European Union (EU) chemical regulation, REACH (Registration, Evaluation, Authorization and Restriction of Chemicals), entered into force on 1 June 2007.

Toshiba will meet all REACH requirements and is committed to provide our customers with information about the presence in our articles of substances included on the candidate list according to REACH regulation.

Please consult the following website www.toshiba-tv.com for information about the presence in our articles of substances included on the candidate list according to REACH in a concentration above 0.1 % weight by weight.

EU Conformity Statement



This product is carrying the CE-Mark in accordance with the related European Directives.

Responsible for CE-Marking is Vestel Holland B.V. Stationsplein 45 A2.191 3013 AK Rotterdam; Vestel Poland sp. zo.o. ul. Salsy 2, 02-823 Warszawa, Polska.

This product is labelled with the CE Mark in accordance with the related European Directives, notably RoHS Directive 2011/65/EU. Furthermore the product complies with the Ecodesign Directive 2005/32/EC (EuP) and 2009/125/EC (ErP) and its related implementing measures.

This equipment corresponds to requirements of the Technical Regulation on limitation of usage of certain dangerous substances in electrical and electronic equipment.