JVC

androidtv

INSTRUCTION MANUAL

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Safety Information

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

The mains plug is used to disconnect the TV from the mains and must therefore remain easily accessible. If the TV is not disconnected from the mains, the device still draws power for all situations, even when the TV is in standby mode or turned off.

IMPORTANT - Please carefully read the instructions for use before starting installation and use.

⚠ **WARNING: This device is intended for use by persons (including children) who are capable/experienced of operating such an device without supervision, unless they have been given supervision or instruction concerning use of the device by a person responsible for their safety.**

- Use this TV at an altitude of less than 5000 meters above sea level, in dry places and in areas with temperate or tropical climates.
- The TV is intended for household and similar indoor use, but can also be used in public places.
- To ensure ventilation, leave at least 5 cm of free space around the TV.
- Do not prevent ventilation by covering or blocking ventilation openings with objects such as newspapers, tablecloths, curtains, etc.
- The mains cable/plug should be easily accessible. Do not place furniture, TV or other things on the mains cable. Damaged power cord may cause fire or electric shock. Disconnect the cable by pulling the plug, not by pulling the cable. Never touch the mains cable with wet hands, as it may cause a short circuit or electric shock. Never knot or tie the cable with other cables. If the cable is damaged, it must be replaced. This must be performed by a qualified person.
- Do not expose the TV to dripping or splashing liquids and do not place containers filled with liquid, such as vases, glasses, etc. on or under the TV (e.g. on the shelves above the device).

- Do not expose the TV to direct sunlight or place open flame sources such as lighted candles on top of or near the TV.
- Do not place any heat sources such as electric heaters, radiators, etc. near the TV.
- Do not place the TV on the floor or on sloping surfaces.
- To avoid the risk of suffocation, keep plastic bags out of the reach of infants, children and pets.
- Carefully connect the stand to the TV. If the stand is equipped with screws, tighten the screws firmly to prevent the TV from tilting. Do not overtighten the screws and install the rubber pads properly.
- Do not dispose of batteries in fire or among hazardous or flammable materials.

ATTENTION

- The battery must not be exposed to excessive temperature, such as sunlight, fire, etc.
- Excessive sound levels from headphones can cause hearing loss.

FIRST OF ALL – NEVER let anyone, especially children, push or hit the screen, insert something into THE holes, connectors or other openings on the TV.

⚠ Warning	Risk of serious injury or death
⚡ Risk of electric shock	Risk of injury from high voltage
⚠ Maintenance	An important part of maintenance

Labelling on the product

The following symbols are used on the product as Restriction Indicators and Safety Precautions and Safety Instructions. Each explanation is only valid for the applicable labeling location on the product. Please pay attention to this information for safety reasons.

▢ **Product protection class II:** This device is designed in such a way that it does not require safety electrical grounding.

⚡ **Hazardous part, conductor, or live terminal:** The labelled part, conductor, or terminal is live under normal operating conditions and is life-threatening.

⚠ **Attention, see Operating Instructions:** There are user replaceable coin or button batteries in the labelled compartment(s).

ATTENTION

Be careful not to swallow the batteries, there is a risk of chemical burns

This product or its accessories supplied with the product may include a button cell/coin battery. If the button cell battery is swallowed, it can cause serious internal burns within 2 hours and can lead to death.

Keep new and used batteries out of reach of children.

If the battery part cannot be closed securely, stop using the product and put it out of the reach of children.

If you think the batteries have been swallowed or inserted into any part of the body, seek medical attention immediately.

The TV may fall and cause serious injury or death. A large number of injuries, especially to children, can be avoided by simple measures;
- ALWAYS use cabinets or pedestals or mounting methods recommended by the TV manufacturer.
- ALWAYS use furniture that provides secure support for the TV.
- ALWAYS make sure that the TV does not extend over the edges of the support furniture.
- ALWAYS educate children about the dangers of climbing on the furniture on which the TV is placed when trying to reach the TV controls.
- ALWAYS run the cables connected to your TV in such a way that they cannot be tripped over, pulled over or grasped.
- NEVER place the TV in unstable places.
- NEVER place the TV on high furniture (such as cabinets and bookcases) without anchoring the furniture and TV for appropriate support.
- NEVER place the TV on fabrics or other materials that can be placed between the TV and supporting furniture.
- NEVER place objects that could entice children, such as toys and remote controls, on top of the TV or the furniture on which the TV is placed.
- The TV is suitable for mounting up to a maximum height of 2 m.

You should still use the above precautions when moving your current TV.

The device connected to the protective earthing of the building installation through a connection to the MAINS or to another device with a connection to the protective earthing and to the TV distribution system through a coaxial cable may, under certain circumstances, pose a risk of fire. Therefore, the connection to the TV distribution system must be made through a device that electrical insulation falls within a certain frequency band (galvanic insulator)

WARNINGS WHEN INSTALLING ON A WALL

- Read the instructions before mounting the TV on the wall.
- The wall mount kit is not included with the TV. You can buy it at your local retailer.
- Do not install the TV on the ceiling or on a sloping wall.
- Use the included screws for wall mounting and other accessories.
- Tighten the wall mounting screws firmly to prevent the TV from falling. Do not overtighten the screws.

The pictures and illustrations in this manual are for informational purposes only and may differ from the actual appearance of the product. Product design and specifications are subject to change without notice.

Instructions

Thank you for choosing our product. Soon you will be enjoying your new TV. Please read these instructions carefully. They contain important information that will help you enjoy the TV to the maximum and ensure its correct and safe installation and operation.

Accessories

• Remote control

• Batteries: 2 x AAA

• Operating instructions

• Power cable

Features

• Remote Controlled Colour TV

• DVB-T-T2/C/S-S2 tuner

• Android™ operating system

• Google Cast

• HbbTV

• HDMI input for connecting external devices

• USB input

• Ethernet (LAN) for internet connection

• 802.11 a/b/g/n/ac with intergrated WLAN support

Ultra HD (UHD)

Your TV supports Ultra High Definition (also known as 4K) mode, which provides 3840x2160 (4K:2K) resolution. This is equivalent to quadrupling the resolution of a Full HD TV by doubling the number of pixels both horizontally and vertically. Ultra HD content is supported through apps, HDMI inputs, some Over-the-Top (OTT) services, USB inputs, and DVB-T2 and DVB-S2 broadcasts.

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

HDR/HLG offers better image quality through brighter, more realistic colours and other enhancements. The TV thus reproduces the image in the quality that the creators wanted to achieve. HDR/HLG content is supported via apps, HDMI inputs, USB inputs and DVB-S2 broadcasts.

To watch HDR/HLG content via HDMI inputs, set the HDMI input you are using in **Settings> Device Preferences> Inputs> HDMI EDID Version** in **EDID 2.0** or **EDID automatically**. The source device should be compatible with at least HDMI 2.0.

Dolby Vision*

Dolby Vision™ delivers a remarkable visual experience with amazing brightness, exceptional contrast and vivid colours that bring your entertainment to life. It achieves this great picture quality by using HDR and Wide Colour Gamut technology. By increasing the brightness of the original signal and using a higher dynamic range of colour and contrast, Dolby Vision delivers an amazing amount of detail that other TVs' post-processing technologies cannot create. Dolby Vision is supported via apps, HDMI and USB inputs.

To watch Dolby Vision content via HDMI inputs, set the HDMI input you are using in **Settings> Device Preferences> Inputs> HDMI EDID Version** in **EDID 2.0** or **EDID automatically**. The source device should be compatible with at least HDMI 2.0.

If you are watching HDR content, it will appear in the menu **Settings> Picture> Picture Mode** predefined image modes. Adjust them to adapt the content you are watching to different ambient light conditions.

Use with several models.

Mounting the stand and installation on the wall

Preparation

Remove the TV and stand from the box. Place the TV on a flat surface (e.g. a table), on a clean, soft cloth (e.g. a blanket), screen down.

• Use a flat surface that is larger than the TV.

• Take care not to scratch or damage the screen when handling the TV.

• Never touch or apply pressure to the screen while handling the TV.

Mounting the stand

• Place the (assembled) stand on the mounting holes.

• Insert the supplied screws and tighten them with reasonable force.

Disassembling the stand

Disassemble the stand if you want to put the TV on the wall or if you need to pack it back into the box (e.g. when moving). When disassembling, follow the same procedure as when assembling the stand.

Installation on the wall

The TV allows mounting the bracket on the wall according to the VESA standard.

Please refer to the printed manual included with your TV for mounting hole spacing and recommended screw size.

Connecting the antenna

If you receive terrestrial or cable broadcasts, connect the antenna cable to the **ANT** connector (antenna input).

If you receive satellite broadcasts, connect the antenna cable to **LNB** connector (satellite input).

Terrestrial/Cable TV

ANT

Satellite TV

LNB
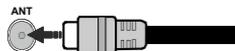
Turn off the TV before connecting the antenna cable. Once the cable is connected, you can switch on the TV and start using it.

Other connections

⚠ To connect an external device to the TV, first turn off the TV and the device to be connected. Once connected, you can switch on the TV and the device and start using it.
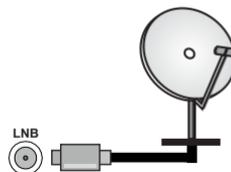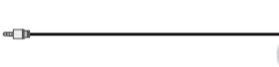
Connector	Type	Cable	Device
	HDMI connection		
SPDIF	SPDIF (Optical Output) connection		
HEADPHONES	Headphones connectivity		
	USB input		
	CI+ Slot		CAM module
LAN	Ethernet connection	LAN/Ethernet cable	

We recommend that you connect all cables to the back of the TV before mounting it on the wall. | Each USB input supports connection of devices with a power supply current up to 500 mA. Connecting a device with a supply current higher than 500 mA may damage the TV. | When connecting the device to the TV using an HDMI cable, use only shielded (high quality) HDMI cable. | | If you want to use HDMI CEC, HDMI eARC/ARC functions, use the HDMI 2 input labeled eARC (or ARC) | If you want to use HDMI CEC, HDMI eARC/ARC functions, use the HDMI 2 input labeled eARC (or ARC). | Insert or remove the CAM module only when the TV is OFF.

Switching the TV on/off

Power connection

IMPORTANT: The TV is designed for use with 220-240V AC/50 Hz.

Wait until the TV is at room temperature before plugging it in.
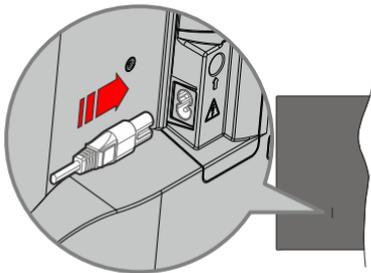
Plug one end (the two-hole plug) of the power cord into the power cord input located on the back of the TV. Then plug the other end of the power cord into the power outlet. The TV will turn on automatically.

Note: The position of the power cable input may vary depending on the model.

Switching the TV off

To turn on the TV, you can use:

• The **On/Off** button on the remote control.

• The control button on the TV.

Note: The position and design of the button may vary depending on the model.

Switching the TV off

To turn off the TV, press and hold the **On/Off** button on the remote control, until the **Off** message appears on the screen. Select **OK** and confirm the turning off the TV.

Note: The TV cannot be switched off using the control button.

Fast standby mode

To put the TV into fast standby mode:

• Press the **On/Off** button on the remote control.

  Press the button again to turn on the TV.

• Press the control button on the TV.

  Press the button again to turn on the TV.

Completely turning the TV off

To turn the TV off completely, unplug the power cord from the power outlet.

Controlling the TV

Remote control operation

Press the **Menu** button to display the settings menu in **Live TV** mode.

Press the Home button to view or return to the Home screen.

Use the directional buttons to navigate through the menus or the home screen.

Press OK to confirm the selection/change settings, open submenus, launch the application, etc.

By pressing the **Back/Return** button you return to the previous menu, exit the menu, etc.

By pressing the **EXIT** button you close the settings menu, close running apps, etc.

Switching channels

By pressing the **Programme +/-** button you can switch channels in the **Live TV** mode.

Volume

By pressing the **Volume +/-** you adjust the TV volume.

Selecting input

By repeatedly pressing the **Source** button or by using the directional buttons and then pressing the **OK** button you can switch source/inputs.

Control via phone

You can control your TV using the Google TV app, which is available for Android and iOS devices.

Android

iOS

Scan the QR code for more information on using the Google TV app:

Control button

Note: The position and design of the button may vary depending on the model.
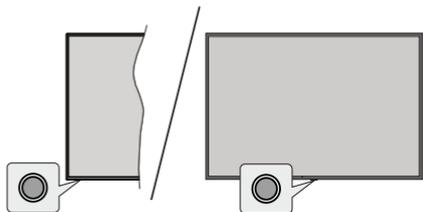
Fast standby mode: Press the centre of the control button and the TV will switch off.

Switching the TV on Press the centre of the control button and the TV will switch on.
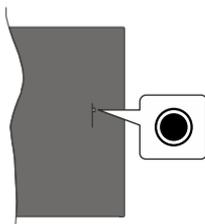
Fast standby mode: Press the centre of the control button and the TV will switch off.

Switching the TV on Press the centre of the control button and the TV will switch on.

Switching channels: Press the centre of the control button and the channel list will be displayed. Select the desired channel by moving the rotary pushbutton up or down.

Fast standby mode: Press and hold the centre of the control button until the TV switches off.

Switching the TV on Press the centre of the control button and the TV will switch on.

Remote control

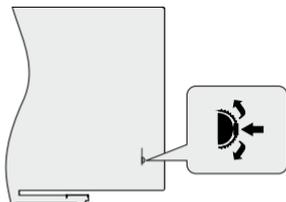|	
⏻	**On/Off:** TV on/off, Fast standby mode
⏏	**Source**: View all available broadcast sources and content, also used in the remote control pairing process*
1 2 3 4 5 6 7 8 9 0	**Numeric buttons:** To change the channel in Live TV mode, enter a number or letter in the text box.
LANG.　LANG.	**Audio track:** Switching audio tracks (if available)
TEXT　TXT	**Teletext:** Switching teletext on/off (if available)
💬	**Subtitles:** Switching subtitles on/off (if available)
🎤	**Microphone*:** Activating the microphone for voice search
Google Play Google Play	**Google Play:** Launch the Google Play Store app
🔇	**Mute:** Completely turning the sound off
⌂	**Home screens:** Display/Return to the home screen
MENU	**Menu:** Display the menu settings
+ V —	**Volume +/-:** Volume settings
⌃ P ⌄	**Programme +/-:** Switching channels
NETFLIX	**Netflix:** Launch the Netflix app
YouTube ▶ YouTube	**YouTube:** Launch the YouTube app
prime video	**Prime Video*:** Launch the Amazon Prime Video app

Play	**Freeview Play***: Connect to the Freeview Play platform	
G ≔	**EPG** (Guide)**:** Displaying the electronic programme guide	
i	**Info:** View information about broadcast content	
◄ ▲ ► ▼	⬚ ⬚	**Directional buttons:** Use the directional buttons to navigate through the individual menus or the home screen.
OK	**OK:** Confirm selection/change settings, display channel list (in Live TV mode), launch the app	
←	**BACK**	**Back/Return** Return to previous menu, go back one step
EXIT	✖	**Exit:** Close/Exit settings menu, exit running application
	My 1 button*: Display the image settings menu on available sources The button can be set as a keyboard shortcut for the selected application. Press and hold this button to display the available applications. Select the application and press **OK**.	
▬▬▬▬	**Colour button:** The function of the colour buttons may vary, please follow the on-screen instructions	
◄◄	**Fast Rewind**	
▶	❚❚	**Pause:** Pause play **Play:** Start play
▶▶	**Fast Forward**	
■	**Stop:** Stop play	
●	No functions	

**Use with several models.*

Inserting batteries into the remote control

Open the battery cover Insert two AAA batteries. Make sure that the (+) and (-) markings on the batteries match the markings in the battery compartment (make sure the polarity is correct). Close the battery cover.

Battery safety instructions

• Do not mix new batteries with old ones.

• Use batteries of the same type. Never use different types of batteries at the same time.

• Remove the batteries from the remote control if you do not use it for a long time, as it may corrode or leak the batteries and result in injury or property damage.

First installation

The first installation wizard will guide you through the initial setup of the TV. Follow the on-screen instructions for the first installation. Use the directional buttons for settings, the **OK** button and the **Back/Return** button on the remote control.

You can perform the initial setup at any time after resetting the TV to factory settings. For factory reset, select **Reset** from **Settings> Device Preferences> About the Device**.

Note: Some steps can be skipped, which you can then set up later after the first installation is complete. Some steps may be skipped depending on previous settings.

1. Select language

After the initial switch-on, a welcome screen will appear with the message **Welcome** (along with the language selection option. Select the desired language from the list, press **OK** to continue.

2. Select country/region

Select your country/region from the list, press **OK** to continue.

3. First setup

After setting the language and country/region, the initial setup wizard starts. Selet the **Continue** option, continue by pressing the **OK** button.

4. Searching for accessories

Follow the on-screen instructions to pair the remote control* and other wireless accessories with the TV. Press the Back/Return button to stop adding accessories and continue.

**Use with several models.*

5. Quick setup with your Android phone

If you want to transfer your wireless WiFi network settings and Google account to your TV from your Android phone, select **Continue**, continue by pressing **OK**.

We recommend skipping this step and making the settings directly on the TV. Select the **Skip** option, continue by pressing **OK**.

6. Internet connection

If you connect the TV to the Internet with a cable at this point, you will be automatically redirected to the next step.

To connect the TV to a WiFi network, select the WiFi network from the list of available wireless networks, press **OK** to continue. If the network is password protected, enter the password using the virtual keyboard.

*Note: If you want to connect to a network that has a hidden SSID, select **Other Network** from the list.*

If you do not want to connect to the Internet at this time, you can skip this step by selecting **Skip**.

7. Signing in to Google account

You must be signed in to your Google Account to use Google services. Select the **Sign In** option, continue by pressing **OK**. Use the virtual keyboard to enter the user name and password of the account.

If you do not want to sign in to your Google Account at this time, you can skip this step by selecting **Skip**.

8. Terms of Service

Please read the Terms of Service, Privacy Policy, and Play Terms of Service carefully. By continuing, you agree to the Google Terms of Service, the Google Privacy Policy, and the Google Play Terms of Service. Select the **Accept** option, continue by pressing **OK**.

Note: If the TV is not connected to the Internet, you will see a message indicating the address of the website where you can view this information.

9. Google Services

Read carefully about each service, such as how to turn it on or off later. The data will be used in accordance with Google's privacy policy.

Use location

You can enable or disable Google and third-party apps to use your TV's location information. Select the **Use Location** position and press **OK** to view detailed information about the service and to enable or disable this function.

Help improve Android

You can enable or disable the automatic sending of diagnostic information to Google. Select **Help Improve Android** and press **OK** to view detailed service information and turn this feature on or off.

Recommendations and ads

Please read the information about this service carefully. Select Recommendations and Ads and press **OK** to view detailed information about the service.

Services & Privacy

Please read the information about this service carefully. Select Services and Privacy and press **OK** to view detailed information about the service.

Select **Accept** and press **OK** to confirm your Google services settings.

10. Password

Depending on the country selection you made, you may be prompted to set a four-digit password (PIN) at this step. The selected PIN cannot be '0000'. This PIN will be required to access some listings, content, or to access blocked channels, resources, etc.

Note: Due to constant development, the individual steps of the first installation may differ from the above procedure.

11. Television mode

*Note: The **Store** mode is intended only for the purpose of displaying the product in a store.*

Select the **Home** option, continue by pressing **OK**.

12. Option for energy savings

Select one of the options according to the intended use of the TV, press **OK** to continue.

Note: You can also edit the selected option later, after the first installation is complete.

13. Tuner mode

Select the type of broadcast you want to tune on the TV, press **OK** to continue. The following options are available: **Antenna**, **Cable** and **Satellite**.

When you have finished searching for the channels of the selected broadcast type, the installation wizard will bring you back to this step. You can now tune in to the next broadcast type.

If you have already tuned all the necessary broadcast types or do not want to tune the broadcast on the TV, select **Skip** and press **OK**.

Antenna

Select what type of terrestrial broadcast you want to tune. Press the **right** directional button to start the channel search.

Cable

Select what type of cable broadcast you want to adjust, set the search mode and cable broadcast parameters. When all settings are complete, press the **right** direction button to start the channel search.

Satellite

In the first step, set up the type of satellite antenna you are using. Select **More** to set up, continue by pressing **OK**.

*Note: If you are using the **Single** antenna type, you can proceed to the next step.*

In the next step, select the operator you are using, press **OK** to continue.

If you need to check or modify the satellite reception parameters, select Skip Scan in the next step and press **Skip Scan** and press **OK**. When all settings are complete, select **Next** and press **OK**.

In the last step, select **Scan**, press the **right** direction button to start channel search.

14. Completing the first installation

Select **FINISH** to complete the initial setup and installation of the TV.

To enable automatic sending of diagnostic information to the manufacturer, select **Accept**, if not, select **Skip**, continue by pressing **OK**.

The Home screen is displayed.

*Note: Press the **EXIT** button on the remote control to switch to theLive TV app.*

Home screen

The Home screen is divided into several sections. Use the directional buttons on the remote control to browse the menus.

In the top left there is the menu for **Desktop**, **Shop**, **Application** tabs, and a **Search** option (for searching movies, shows, apps, etc.).

Desktop

Favourite apps

Press **OK** to start the application.

To move an application to another position or remove it from the menu, press and hold **OK**. In a new window, select the desired option and press **OK**.

To add one of your installed apps to the menu, scroll to the last item in the **Add applications to favourites** menu and press **OK**. Select the application you want to add to the menu and press **OK**.

Streaming service recommendations

To start a movie or programme, press **OK**.

If you want to move a service to a different position or remove it from the menu, move to the far left in the row. Select the desired option and press **OK**.

For further adjustments select **Desktop Customisation** on the desktop or go to **Settings> Devide Preferences> Desktop**.

Shop

Menu of paid movies, shows, etc.

Application

List of installed applications.

After pressing and holding **OK**, the application editing options window appears.

In the top right you will find **Notifications**, the **Inputs** menu, the connection status to the Internet, the **Settings** menu and Google account. Press **OK** to enter individual menus.

Note: Due to ongoing development, the appearance, menus and home screen options may vary.

Live TV app

This app is designed to watch tuned TV broadcasts.

List of channels

By pressing **OK** you display the list of tuned channels. Use the directional buttons on the remote control to scroll through the channels. By pressing **OK** you switch to the selected channel.

Use the coloured buttons (see the help at the bottom of the list of tuned channels) to adjust the list. If you need to shift channels to other positions press the **red** button.

Note: Channels cannot be shifted if the LCN function is enabled. The LCN function can be turned off in TV Options> Settings> Channel> Channels. Depending on the operator selection and operator-related settings, the channel shift option may not be available.

If you need to create a list of favourite channels press the **blue** button. If you need to filter the list of channels press the **yellow** button. If you need to sort the list of channels press the **yellow** button.

The electronic programme guide

By pressing the **EPG** button you display the broadcast programmes of the tuned channels. Use the directional buttons on the remote control to scroll through the programme.

Use the coloured buttons (see the help at the bottom of the guide) to scroll to the next/previous day, view details of the programme and filter programmes by genre.

HbbTV (red button)

Note: HbbTV broadcasts can only be watched if the TV is connected to the internet.

If HbbTV broadcasting is available on the channel, a red button symbol/icon will appear on the screen. By pressing the **red** you start the HbbTV broadcasts.

TV options

By pressing **MENU** you display **TV Options**.

Note: Some settings may not be available depending on other settings or the source set.

Source

List of input sources.

Picture

Picture Mode: Set the picture mode according to your preferences or requirements.

Backlight Settings: Adjust the backlight according to your preferences. To set the backlight manually, select **Off**.

Display Mode: Set the format (aspect ratio) of the picture.

Note: For more information about picture settings, see TV Settings.

Audio

System Audio: Enable/Disable system audio.

Dolby Audio Processing: Set the sound mode according to your preferences or requirements.

Note: For more information about sound settings, see TV Settings.

Power

Shutdown Timer: Set the time after which the TV switches off.

Switching Off Picture: If you want to use the TV only as a soundtrack, press **OK** to switch off the picture. To switch the picture back on, press any button except **Volume+/-**, **Mute** and **On/Off**. These buttons will work normally.

Note: For detailed information on all settings, see TV Settings.

CI Card

Information and settings of CAM module

Advanced Options

Audio Channel: Set the audio channel.

Audio Language: Set the primary audio language.

Second Audio Language: Set the secondary audio language.

Audio Tracks: Set the audio track.

Blue Mute: Turn on/off the blue background when the signal is lost.

Default Channel: Set the default channel you want to watch when you switch on the TV.

HBBTV Settings: Turn on/off HbbTV and adjust the settings of this service.

Subtitles: Turn on/off subtitles, set the language and subtitle type.

Teletext: Set the language and encoding of the teletext.

System Information: Display of the quality and signal level of the current channel and other information.

Multimedia Playback

IMPORTANT! Back up the files stored on your USB memory devices before connecting them to your TV. The TV manufacturer is not responsible for any damage or loss of data.

USB/HDD Playback

Note: FAT32 and NTFS formatted storage devices are supported, with a maximum capacity of 2 TB. Files larger than 4 GB are not supported. Connect storage devices directly to the TV, do not use any USB extension cables or reducers.

Run MultiMediaPlayer (MMP) or any other media player (e.g. VLC) you have installed. The files stored on the connected memory device are displayed in the player. Select the desired file and start playback.

To safely remove a storage device, go to **Notifications** on the home screen, select the connected device, and press **OK**. In a new window select **Remove** and press **OK**.

Playback from network storage

To play files from network storage, use the multimedia player that allows such playback (e.g. VLC).

Installing applications

IMPORTANT! All applications are developed by third parties. The TV manufacturer cannot influence the availability or functionality of the apps. The TV manufacturer is not responsible for problems with third-party apps.

Launch the **Play Store** (Google Play), find the app you want and press **OK**. In a new window select **Install** and press **OK**.

Note: You can add an installed app to your favourites on your desktop. For the steps, see Home Screen.

TV Settings

The **Settings** menu (gear wheel symbol) can be found in the home screen or in the **TV Options** menu in the **Live TV** app.

Note: Some settings may not be available depending on other settings or the source set.

Suggestions

Suggestions that will make it easier for you to use the TV.

Network and Internet

Setting up an Internet connection and other functions related to the Internet connection.

Wow: This feature allows you to turn on the TV via a WiFi network.

Wol: This function allows you to turn on the TV via LAN.

WOC: This feature allows you to turn on your TV via Chromecast.

Channel

Note: The content of this menu may vary depending on the input source selected and whether the channel installation is complete.

Channels: Options for searching channels and editing the list of tuned channels.

Automatic Updating of Channels: Search for new or missing channels in standby mode. The search is indicated by a flashing standby light. All newly found channels will be added to the list of tuned channels.

Note: If new channels are found, the list of tuned channels and channel positions will change.

Message about Channel Update: Information about changes after updating channels.

Parental Control: Setting parental restrictions.

Note: To access this menu, you need to enter your PIN. The default PIN is 1234.

Accounts and Logins

Adding, removing and managing Google Accounts.

Application

Manage applications

Device Preferences

About the Device

Information about the TV

System Updates: Check for updates

IMPORTANT! During the update and restart, do not unplug the TV power cord from the socket.

Device Name: Entering/changing the name of the TV

Reset: Reset to factory settings.

Note: A factory reset will erase all settings on the TV.

TV's Lifetime

Operating period of the TV

Date and Time

Set the date and time.

Timer

Set the TV on/off time.

Language

Set the language.

Keyboard

Setting up and managing virtual keyboards.

Inputs

Input settings and HDMI CEC (Consumer Electronic Control) function.

HDMI CEC allows you to control the basic functions of the connected device using the TV remote control.

Note: If you want to use the HDMI CEC function, use the HDMI 2 input marked eARC (or ARC) to connect. HDMI CEC must also be supported by the connected device.

HDMI Control: Enable/disable the HDMI CEC function.

Automatic Device Turn-Off: Activate turning off the connected device along with the TV.

Automatic Television Turn-On: Activate turning on the connected device with the TV.

Power

Shutdown Timer: Set the time after the TV switches off.

Switching Off Picture: If you want to use the TV only as a soundtrack, press **OK** to switch off the picture. To turn the picture back on, press any button except **Volume +/-**, **Mute** and **On/Off**. These buttons will work normally.

Automatic Turn-Off When the Signal is Lost: Set the time after which the TV will turn off after the signal is lost.

Automatic Sleep Mode: Set the time after which the TV turns off if it is not controlled in any way.

Picture

Picture Mode: Preset picture modes.

Backlight Settings: Screen backlight.

Note: To set the backlight manually, select Off.

Gamma: Picture brightness/darkness.

Colour Temperature: The colour temperature of the picture.

Display Mode: Set the format (aspect ratio) of the picture.

HDR: Enabling/Disabling HDR.

Note: This item will be available when HDR content is detected.

Advanced Video Options: Other options for setting the picture.

DNR: Dynamic Noise Reduction

MPEG NR: MPEG Noise Reduction

Max Vivid: Vivid, saturated colours

Adaptive Luma Control: Black and white highlighting.

Local Contrast Control: Creates the impression of greater depth by enhancing dark and light areas without losing detail.

Skin Tone: Highlighting of skin tones.

DI Film Mode: Detect and edit the interlacing of video files played in the multimedia player.

Blue Stretch: Cool colours.

Game Mode Enable/Disable game mode.

ALLM: Enable/Disable low latency game mode.

PC Mode: Enable/Disable PC Mode.

De-contour: Highlighting of colours

MJC: Picture optimisation of fast-paced scenes.

HDMI RGB Range: Set the RGB input signal of the HDMI input.

Low Blue Light: Warm Colours.

Colour Space: Set the colour range of the picture.

Colour Tuner: Setting the hue, saturation and other image parameters for individual colours.

White Balance Correction: Adjustment of white balance.

Restore Default Settings: Restore default picture settings.

Audio

System Audio: Enable/Disable system audio.

Audio Mode: Preset audio mode.

Balance: Left and right speaker sound balance.

Surround Sound: Enable/Disable Surround Sound.

Equalizer: Equalizer Settings

Speaker Delay: Speaker Audio Delay

eARC/ARC: Enable/Disable HDMI eARC/ARC function.

The HDMI eARC/ARC function allows you to transmit audio from the TV to a connected audio device (e.g. soundbar).

Note: If you want to use the HDMI eARC/ARC function, use the HDMI 2 input marked eARC (or ARC) to connect.

Digital Output: Digital output audio format.

Digital Output Delay: Digital output audio delay.

Automatic Volume Control: Automatically compensate for sudden differences in volume (e.g. for commercials).

Downmix Mode: Convert multichannel audio to two-channel stereo audio.

Dolby Audio Processing: Dolby Audio Audio Processing.

Dolby Audio Processing: Enable/Disable Dolby Audio processing.

Audio Mode: Preset audio processing modes for Dolby Audio.

Volume Balance: Volume level balance.

Surround Sound Virtualizer: Virtual surround sound.

Dolby Atmos: Enable/Disable Dolby Atmos sound.

Note: If Dolby Audio Processing is enabled, Audio Mode, Balance, Surround Sound, Equalizer and Automatic Volume Control will not be available.

Enhance Dialogue: Dialogue Enhancement.

Note: In order to use this function, an audio track in Dolby AC-4 format must be available.

Dolby Atmos Notification: Dolby Atmos sound detection.

Restore Default Settings: Restore default sound settings.

Storage

Manage storage and connected USB storage devices.

Desktop

Home screen customisation.

Google Assistant

Google Assistant settings.

Google Cast

Google Cast settings.

The Google Cast function allows you to transfer content from your phone directly to the TV screen.

Note: Google Cast works on Android and iOS operating systems. Your phone must be connected to the same network as your TV.

Screensaver

Screen saver settings.

Energy Saver

Set the time after which the TV will switch off to save power.

Location

Setting up and managing location information.

Usage and Diagnostics

Sending diagnostic information to Google.

Usage and Diagnostics from the Manufacturer

Sending diagnostic information to the TV manufacturer.

Facilitation

Settings for the visually and hearing impaired.

Restart

Restart the TV.

Remote Control and Accessories

Connect/disconnect Bluetooth accessories.

Connecting accessories

Select the **Add Accessories** option and press **OK** to start searching for available devices. When the search is complete, a list of available devices will be displayed. Select the desired device and press **OK** to pair it with the TV.

Follow the on-screen instructions to connect the remote control*. Press and hold the **SOURCE** button on the remote control until the **TV REMOTE** appears in the list of available devices. Press **OK** to pair the remote control with the TV.

*Use with several models

Disconnecting accessories

Select the device you want, press **OK**, and in the new window select **Unpair**.

Note: If you connect an audio device (e.g. soundbar) or headphones to the TV via Bluetooth, the sound may lag behind the picture.

Troubleshooting and tips

Non-standard TV Behaviour

• Turn off the TV. Press and hold **On/Off** on the remote control until the **Off** message appears on the screen. Select **OK** and confirm the turning off the TV.

• Unplug the power cord from the power outlet. Wait one minute and then plug it back in.

The TV will not turn on

• Make sure the power cord is properly plugged into the TV and the wall outlet.

• Turn on the TV using the control button.

• Unplug the power cord from the power outlet. Wait one minute and then plug it back in.

The TV is not responding to the remote

• It takes some time to start the TV. During this time, the TV does not respond to the remote control.

• Batteries may be low. Replace them with new ones.

• The batteries may be inserted incorrectly in the remote control. Check the polarity.

• Use your phone's camera to check that the remote control is working. Switch the phone to camera mode and point the remote control at the phone's lens. You should see the IR LED on the remote flash when you press any button. If you do not see the blinking or if the IR LED blinks without pressing any buttons, the remote control is damaged.

Note: This method of control is not possible with remote controls that are paired wirelessly with the TV. Flickering of the IR LED is not visible to the eye, it must be tested via the phone's camera.

No channels

• Check the antenna/dish settings.

• Check the antenna cable connections.

• Check that the correct channel list is selected.

• If you have performed a manual tuning, check that you have entered the correct channel frequency.

No or distorted picture

• Check the antenna/dish settings.

• Check that the aerial cable is properly connected to the TV.

• Check that the antenna cable is not damaged.

• Check the connection of the external device.

• Check that the correct input source is selected.

• Check that the picture settings are correct.

• If the picture does not fit on the screen, set a different format (aspect ratio) of the picture.

• Check that your computer is using the supported resolution and refresh rate.

No or bad sound

• Check that the sound is not muted.

• Check that the audio settings are correct.

• Check the connection of the external device.

• Check the audio format setting of the digital output.

Unable to select the desired source

• Check the input settings.

• Check the connection of the external device.

• Check that the correct input source is selected.

Problem connecting to a WiFi network

• Use your phone to check the functionality of your TV. Create a hotspot on your phone and place it next to your TV. Connect your TV to your phone's hotspot. If everything works smoothly, there will be some problem with the home WiFi network.

• Check the quality of the WiFi network where the TV is located. If you have a choice between a 2.4 GHz WiFi connection and a 5 GHz network, try connecting to a 2.4 GHz WiFi network.

• Check if your home WiFi network is interfered with by a nearby WiFi network. Try setting a different broadcast channel on your router.

Supported file formats for USB mode

Video file formats

Video codec	Resolution	Transfer 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)/ Main 10 (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,. MPG,.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), MP4 (.mp4, .mov), AVS (.avs)
AVS+	1920x1080@60fps	50Mbps	Broadcasting Profile @ Level 6.0.1.08.60	Transport stream MPEG (.ts,.trp,.tp), AVS (.avs)
AVS2	4096x2176@60fps	100Mbps	Main (8-bit)/ Main 10 (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)

Audio file formats

Audio codec	Sampling frequency	Channels	Transfer rate	Container
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 (.flv), 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 (.flv), 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 (.flv), 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 (.flv), 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) Note: 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)
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	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) Note: Supports stereo decoding only
DTS	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	To 96KHz	Up to 6	Up to 6.123Mbps	MPEG transport stream (.ts, .trp, .tp), MP4 (.mp4, .mov), 3GPP (.3gpp, .3gp)

Audio codec	Sampling frequency	Channels	Transfer rate	Container
DTS Master Audio	To 48KHz	Up to 6	Up to 24.537Mbps	MPEG transport stream (.ts, .trp, .tp), MP4 (.mp4, .mov), GPP (.3gpp, .3gp) Note: 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 file formats

Picture	Photo	Resolution (width x height)
JPEG	Base-line	15360 x 8640
	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 formats

Internal

File types	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 extensions	Subtitles Parser	Notes
.srt	SubRip	
.ssa/.ass	SubStation Alpha, Advanced SubStation Alpha	
.smi	SAMI	
.sub	MicroDVD, SubIdx (VobSub)	
.txt	TMPlayer	

HDMI signal compatibility

Source	Supported signals	
HDMI	480i	60Hz
	480p	60Hz
	576i, 576p	50Hz
	720p	50Hz,60Hz
	1080i*	50Hz,60Hz
	1080p*	24Hz, 25Hz, 30Hz, 50Hz, 60Hz
	3840x2160p*	24Hz, 25Hz, 30Hz, 50Hz, 60Hz
	4096x2160p*	24Hz, 25Hz, 30Hz, 50Hz, 60Hz

Note: Sometimes the signal may not be displayed correctly on the TV. The problem may be incompatibility between the TV and the connected device (PC, DVD, Set-top box, etc.).

*Use with several models.

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JVC

Information about disposal

European Union

These symbols indicate that electrical and electronic devices and batteries with this symbol must not be thrown away with normal household waste at the end of their life. Instead, they should be taken to appropriate collection centres for the recycling of electrical and electronic equipment and batteries for proper treatment, recovery and recycling in accordance with national legislation and Directives 2012/19/EU and 2013/56/EU.

By disposing of these products properly, you help to conserve natural resources and avoid potential negative environmental and human health impacts that could otherwise result from improper handling during disposal.

For more information about collection centres and recycling of these products, contact your local authority, waste disposal services or the shop where you bought the product

Improper disposal of this waste may result in a fine depending on state law.

For entrepreneurs

If you wish to dispose of this product, please contact your supplier and read the general terms and conditions of the purchase contract.

Other countries outside the European Union

These symbols are valid only in the European Union.

For information on how to dispose and recycle, contact your local authority.

Take the product and packaging to the recycling facility.

Some collection centres accept free products.

Note: *The Pb sign below the symbol means that the battery contains lead.*

1. Products
2. Battery

JVC