**Safety**

Ensure that your domestic mains supply voltage matches the voltage indicated on the identification sticker located at the back of your set. Where the mains plug, AC inlet or an appliance coupler is used as disconnect device, it shall remain readily operable.

On certain models, the light indicator is located at the side of the TV set. The absence of a light indication at the front does not mean that the TV set is fully disconnected from the mains. To disconnect the TV set completely, the mains plug must be pulled out.

The TV set's components are sensitive to heat. The **maximum ambient temperature** should not exceed **35º** Celsius. Do not cover the vents at the back or sides of the TV set. Leave sufficient space around it to allow adequate ventilation. Install the appliance away from any source of heat (fireplace, etc.) or appliances creating strong magnetic or electric fields.

**Moisture** in rooms where the set is installed should not exceed **75%** humidity. Moving the set from a cold place to a warm one can cause condensation on the screen (and on some components inside the TV set). Let the condensation evaporate before switching the TV set on again.

The ⏻ or **POWER/**⏻ button on the TV set or the ⏻ button on the remote control can be used to switch it on and put it into standby mode. If you are **not going to be watching the TV for a lengthy period of time**, switch it off completely by removing the plug from the mains power socket.

During **thunderstorms**, we recommend that you disconnect the TV set from the mains and aerial so that it is not affected by electrical or electromagnetic surges that could damage it. For this reason, keep the **mains and aerial sockets** accessible so they can be **disconnected**, if necessary.

**Unplug** the TV set immediately if you notice it giving off a **smell of burning** or **smoke**. You must never, under any circumstances, open the TV set yourself, as you run the risk of an **electric shock** in doing so.

**WARNINGS**

This appliance is intended for domestic household use only and should not be used for any other application, such as for non-domestic use or in a commercial environment.

If the external flexible cable or cord of this product is damaged, it shall be replaced by the manufacturer or his service agent or a similar qualified person in order to avoid a hazard.

Leave more than 10cm clearance around the television to allow adequate ventilation. The ventilation should not be impeded by covering the ventilation openings with items, such as newspapers, table-cloths, curtains, etc.

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

Batteries (battery pack or batteries installed) shall not be exposed to excessive heat such as sunshine, fire or the like.

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

Never place a television set in an unstable location. A television set may fall, causing serious personal injury or death. Many injuries, particularly to children, can be avoided by taking simple precautions such as:

- Using cabinets or stands recommended by the manufacturer of the television set.
- Only using furniture that can safely support the television set.
- Ensuring the television set is not overhanging the edge of the supporting furniture.
- Not placing the television set on tall furniture (for example, cupboards or bookcases) without anchoring both the furniture and the television set to a suitable support.
- Not placing the television set on cloth or other materials that may be located between the television set and supporting furniture.
- Educating children about the dangers of climbing on furniture to reach the television set or its controls.

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



Equipment with this symbol is a Class II or double insulated electrical appliance. It has been designed in such a way that it does not require a safety connection to electrical earth. Equipment without this symbol is a Class I electrical appliance. It shall be connected to a mains socket outlet with a protective earthing connection.



To prevent the spread of fire, keep candles or other open flames away from this product at all times.

To prevent injury, this apparatus must be securely attached to the floor/wall in accordance with the installation instructions.

**CAUTION:** Connect headphones with the volume set low and increase if required. Prolonged listening through headphones at high volume settings can result in hearing damage.

**Eye Fatigue**

When using this product as a computer monitor, health and safety experts recommend short frequent breaks rather than occasional longer breaks. For example a 5-10 minute break after an hour of continuous screen work is considered to be better than a 15 minute break every 2 hours.

Do not use the monitor against a bright background or where sunlight or other bright light sources will shine directly onto the screen.

**TV screen**

The TV screen used in this product is made of glass. Therefore, it can break when the product is dropped or impacted upon by other objects.

The TV screen is a very high technology product, giving you finely detailed pictures. Occasionally, a few nonactive pixels may appear on the screen as a fixed point of blue, green or red. This does not affect the performance of your product.

**Care**

Use a glass-cleaning product to clean the screen and a soft cloth and mild detergent to clean the rest of the set.

**Important:** Using strong detergents, alcohol-based and abrasive products may damage the screen.

Dust the vents at the back and sides regularly. Using solvents, abrasive or alcohol-based products could damage the TV set. If an object or liquid enters the appliance, unplug it immediately and have it checked by an authorized engineer. Never open the appliance yourself since this may put you at risk or damage the appliance.

**ESD regulation**

This apparatus meets ESD performance criteria.
In case the apparatus does not recover in Ethernet connection mode due to electrostatic discharge, user interference is required.

**Hanging the TV set on the wall**

**Warning: This operation requires two people.**

To ensure a safe installation, observe the following safety notes:

- Check that the wall can support the weight of the TV set and wall mount assembly.
- Follow the mounting instructions provided with the wall mount. For certain models, make sure to screw the hexagonal VESA wall mounting screw bosses (and screws) provided with the set into the nuts for the wall mount at the back of your set before your wall mounting.
- The TV set must be installed on a vertical wall.
- Make sure to use only screws suitable for the material of the wall.
- Make sure that the TV set cables are placed so that there is no danger of tripping over them.

All other safety instructions about our TV sets are also applicable here.

**Multi product user manual**

The features described in this manual are common to most models. Some features may not be available on your TV and/or your TV may include features that are not described in this user manual. The illustrations in this manual may differ from the actual product. Please refer to the actual product.

English

**Information for Users on Disposal of Old Equipment and Batteries**
**[European Union]**



**Products**



**Pb**

**Battery**

**Notice:**
The sign Pb below the symbol for batteries indicates that this battery contains lead.

These symbols indicate that the electrical and electronic equipment and the battery with this symbol should not be disposed of as general household waste at their end-of-life. Instead, the products should be handed over to the applicable collection points for the recycling of electrical and electronic equipment as well as batteries for proper treatment, recovery and recycling in accordance with your national legislation and the Directive 2012/19/EU, 2006/66/EC and 2008/12/EC.

By disposing of these products correctly, you will help to conserve natural resources and will help to prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of these products.

For more information about collection points and recycling of these products, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

**[Business users]**

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

**[Other Countries outside the European Union]**

These symbols are only valid in the European Union. If you wish to dispose of these items, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical equipment and batteries.

**Dear Customer,**
This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

TCL Operations Polska Sp. z o.o.
ul. A. Mickiewicza 31/41
96-300 Żyrardów, Poland

Email address: zyeee@tcl.com

*Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.*

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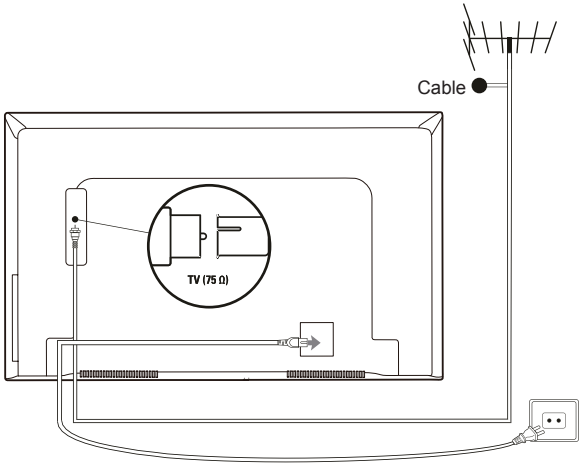
### Connect the power and antenna

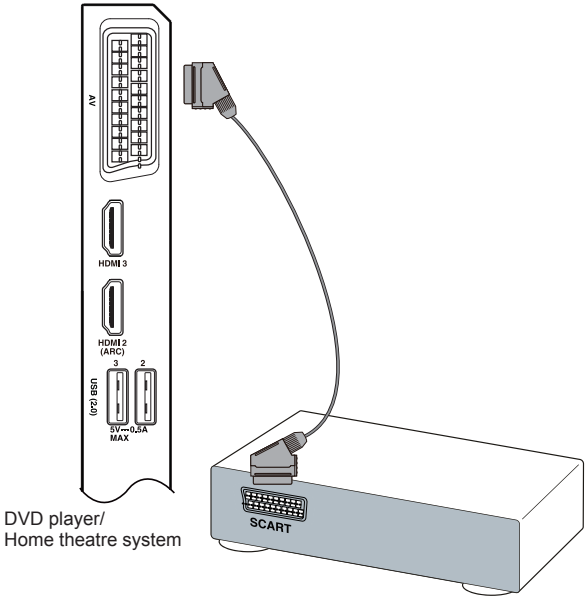
To switch on TV after connecting power cord, press ⏻ or **POWER**/⏻.

*Notes:*

- *Position of power socket varies according to TV model. On certain models, you have to turn on the power switch first.*
- *Disconnect the power cord before connecting devices.*



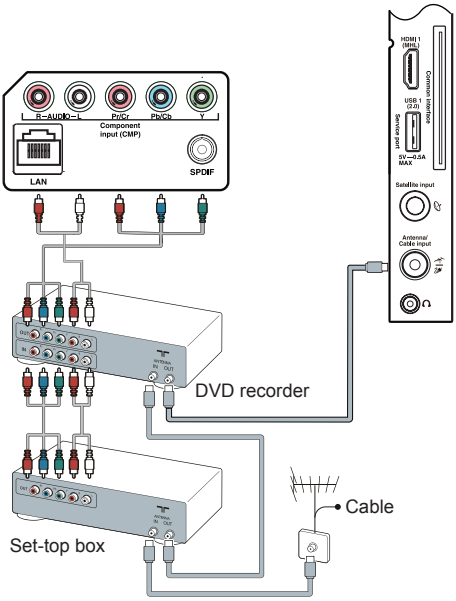

### Connect DVD player, home theatre system



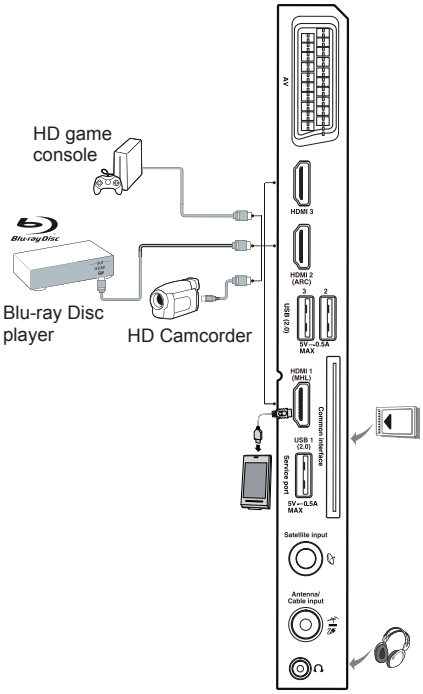

DVD player/
Home theatre system

English

**Connect DVD recorder, cable receiver**




**Connect Blu-ray Disc player, HD game console, HD camcorder, headphones, CI module**

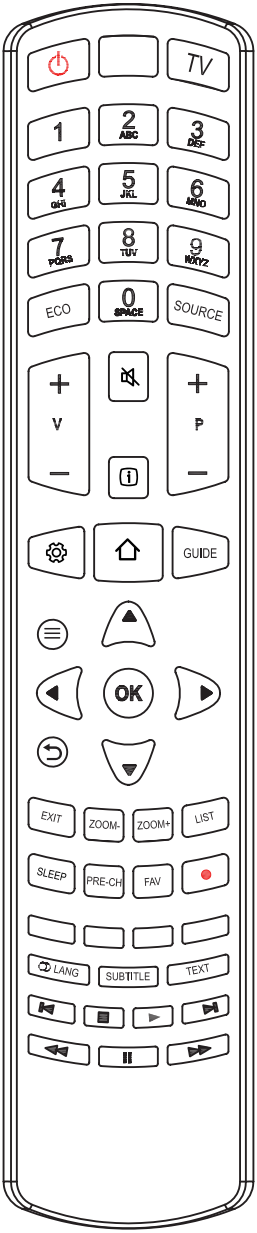



*Notes:*

- *Your TV might not have all connectors visible on diagram above. Number of USB and HDMI ports may vary according to TV model.*
- *Button and connector locations may vary according to TV model.*
- *USB connectors are for data input from USB drives and for connecting other relevant USB devices where applicable.*
- *All USB devices have to be directly connected to TV set without cable extenders. In case extender is required, maximum 50cm length is recommended. Longer extenders should have ferrite beads.*
- *ARC (Audio Return Channel) function is only supported on the HDMI port identified with ARC. To use ARC function, please turn on T-Link function first as described in the* **T-Link** *section.*
- *MHL (Mobile High-Definition Link) function allows you to link an MHL-capable mobile device to the television and is only supported on the HDMI port identified with MHL. Maximum video resolution is 1080P (50/60Hz).*
- *It is recommended to use high quality and well shielded HDMI cables to avoid possible interferences.*
- *Please use headphones with 3.5mm TRS connector. Excessive sound pressure from headphones can cause hearing loss.*

## Remote control functions

Most of your television's functions are available via the menus that appear on the screen. The remote control supplied with your set can be used to navigate through the menus and to configure all the general settings.
*Note: You are recommended to use the full screen mode. Do not use the display mode with black bars on both sides of the picture (such as 4:3) for a long time; otherwise the TV screen may be damaged permanently.*




| | |
|---|---|
| ⏻ | Standby / quit standby. |
| **TV** | To access TV mode. |
| **Alphanumeric buttons** | To enter channel numbers; to enter a letter, a digit or a symbol in some functions. |
| **ECO** | To select a desired energy saving mode. |
| **SOURCE** | To select connected devices. |
| **V+/-** | To control the volume. |
| 🔇 | To switch the sound off and back on. |
| ⓘ | To display programme information, if available. |
| **P+/-** | To change channels. |
| ⚙ | To display the Settings menu. |
| ⌂ | To access the Smart TV homepage. |
| **GUIDE** | To toggle the Electronic Programme Guide on or off (only available for digital channels). |
| ☰ | To display the Option menu. |
| ▲/▼ | To navigate through the menus; to select menu options. |
| ◄/► | To navigate through the menus; to select menu options and change values. |
| **OK** | To confirm an entry or selection. |
| ⮌ | To return to the previous menu. |
| **EXIT** | To exit the menu, homepage or Teletext, etc. |
| **ZOOM-/+** | To select the screen mode. |
| **LIST** | To display the channel list. |
| **SLEEP** | To select the sleep timer options. |
| **PRE-CH** | To return to the previous channel in TV mode. |
| **FAV** | To bring up your favourite channel list. |
| ● | Recording button. *(Not available for some models.)* |
| **Colour buttons** | To select tasks or Teletext pages; to be used for HbbTV function. |
| **LANG** | To select a sound type available for selected analogue TV programme; to select an audio language available for selected digital TV programme. |
| **SUBTITLE** | To select a subtitle language available for selected digital TV programme. |
| **TEXT** | To toggle Teletext on or off. |
| ⏮ | To select the previous picture, music or video. |
| ■ | To stop playback. |
| ▶ | To start playback. |
| ⏭ | To select the next picture, music or video. |
| ◀◀ | To start fast reverse. |
| ⏸ | To pause playback. |
| ▶▶ | To start fast forward. |

*Note: The remote control type may be changed without notice.*

English

**Important**:

Batteries shall not be exposed to excessive heat such as sunshine, fire or the like. Remove batteries when the remote control is not to be used for a long time. Batteries left in equipment may cause damage through deterioration and corrosive leakage, invalidating the guarantee.

To protect the environment use local recycling facilities for battery disposal. Dispose of used batteries according to the instructions.

**CAUTION**: Risk of explosion if batteries are replaced by an incorrect type. Replace only with the same or equivalent type recommended by the equipment manufacturer.

If the batteries in your remote control are run down, you can use the buttons on your TV set. They have the following functions:

For models with below buttons on the set:

| | TV mode | In menus |
|---|---|---|
| **PR+** or **PR** ▲ | **P+** | ▲ |
| **PR-** or **PR** ▼ | **P-** | ▼ |
| **VOL+**, **+** or **VOL** ► | **V+** | ► |
| **VOL-**, **-** or **VOL** ◄ | **V-** | ◄ |
| ⌂ **OK** ⏻ | ⌂ **OK** ⏻ | ⌂ **OK** ⏻ |

For models with below buttons on the set:

| | TV mode | In menus |
|---|---|---|
| ∧ | **P+** | ▲ |
| ∨ | **P-** | ▼ |
| > | **V+** | ► |
| < | **V-** | ◄ |
| ⏻ | Features (Long press) | **OK** (Short press) Return (Long press) |

### Switch the TV on and off

1. When the power cord is connected, the TV will be turned on directly or be in standby mode. If the TV is in standby mode, press the ⏻ or **POWER**/⏻ button on the set or the ⏻ button on the remote control to turn it on.
2. To put the TV into standby mode, press the ⏻ or **POWER**/⏻ button on the set or the ⏻ button on the remote control. The TV set remains powered up, but with low energy consumption.
3. To switch the TV off, unplug the mains plug from the mains outlet.

*(*On certain models, you have to turn on the power switch first.)*

### Initial setup

Initial setup involves selecting all the settings required to be able to search for and store all the analogue and digital channels you can receive.

Make sure that the television is switched on and follow all the steps in turn specified hereafter.

*Note: If the channel search retrieved only the analogue channels it could be caused by poor broadcasting and therefore is not covered by manufacturer warranty. Manufacturers cannot be held responsible for lack of or poor broadcasting in some areas.*

The first time you switch the set on, the **Initial Setup** wizard opens, which guides you through the initial setup process. (Refer to Figure 1.)

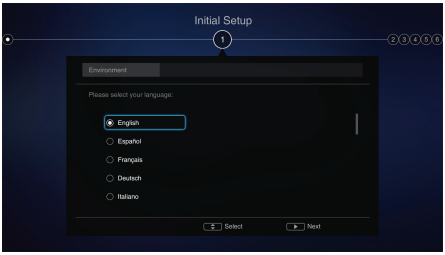



Figure 1

**Step 1: Environment setup**

1. Press ▲/▼ to select your language, then press **OK/►** to enter the next step.
2. Press ▲/▼ to select your country, then press **OK/►** to enter the next step.
   *Note: If you select* **France** *or* **Italy***, you will have to enter the password setting menu here to set a password. Use the numeric buttons to enter a four-digit number as your password. (0000 is too simple to be set as your password.) Enter the same code again to confirm the password. After that, you will enter the next step automatically. (In this step, you can only press ◄ to return to the previous step.)*
3. Press ▲/▼ to select your location, then press **OK/►** to enter the next step.

**Step 2: Network setup**

1. Press ▲/▼ to select your network connection type (**Wired** or **Wireless**), then press **OK/►** to enter the next step.
2. Follow the guides on the screen and press the corresponding buttons on the remote control to proceed.
   *Note: You can also skip this step and step 3 by selecting* **"I do not have a network connection"***, and connect to the Internet later. For details please refer to section* **Network Connection.**

**Step 3: Software update**

1. If the set has connected to the network successfully, it will search for upgrade files automatically.
2. Follow the guides on the screen and press the corresponding buttons on the remote control to proceed.

**Step 4: Channel installation**

1. Press ▲/▼ to select **Continue** to install channels.
2. Follow the guides on the screen and press the corresponding buttons on the remote control to proceed.
   *Note: To prevent the channel installation process from being interrupted, wait for the message indicating that the installation is complete. You can also skip this step by selecting* **"I don't want to install channels"***. In this case, to search and store your channels you may do an automatic channel search by following the instructions in the next section* **Performing an automatic channel search**.

**Step 5: Clock setup**

If the set was not connected to the network, you can use the numeric buttons to enter the date and time, then select the **OK** button and press **OK** to confirm.

When the initial setup is completed, the **Congratulations** message appears. Press **OK** to confirm.

### Performing an automatic channel search

This section describes how to search and store channels automatically. This may be done in any of the cases below:

- you have selected "**I don't want to install channels**" in the initial setup;
- you see "**No program info now, please search channels first!**" in TV mode;
- you want to update your channels.

1. In TV mode, press ⚙ on the remote control and select **Channel > Channel scan**. Press **OK/►** to enter.
2. The TV installs and arranges channels according to your country. Press ▲/▼ to select **Country**, and press **OK/►** to enter. Enter the default password 1234 or your own password in case you have changed the password in the **System > Lock** menu. Press ▲/▼ to select your country and press **OK/►** to confirm.
3. Press ▲/▼ to select **Tuner mode**, then press **OK/►** to enter. Press ▲/▼ to select **Cable**, **Antenna** or **Satellite**, and press **OK/►** to confirm. *(Note:* **Satellite** *option is available only in selected models.)*
4. Follow a), b) or c) below.
   - a) If you have selected **Cable**.

- Press ▲/▼ to select **Automatic search**, then press **OK/►** to enter.
- Press ▲/▼ to select **Channel type**.
  - If you select **Digital & Analogue**, press **OK** to enter. Press ◄/► to select your **Scan mode** if available (**Full** or **Advanced**).
    - If you select **Full**, press ▲/▼ to select the **Search** button and press **OK** to start the automatic search for all DVB-C digital and/or analogue channels.
    - If you select **Advanced**, use the numeric buttons to adjust the values for **Frequency**, **Symbol rate**, **Network ID**, and use ◄/► to select the **Modulation** mode. Then press ▲/▼ to select the **Search** button and press **OK** to start the automatic search for all DVB-C digital and/or analogue channels.
  - If you select **Digital**, follow the same process as above to start your automatic search for all DVB-C digital channels.
  - If you select **Analogue**, press **OK** to start your automatic search for all analogue channels.
- b) If you have selected **Antenna**.
  - Press ▲/▼ to select **Automatic search**, then press **OK/►** to enter.
  - Press ▲/▼ to select **Channel type** (**Digital & Analogue**, **Digital** or **Analogue**), then press **OK** to start the automatic search for all DVB-T digital and/or analogue channels.
- c) If you have selected **Satellite**.
  - Press ▲/▼ to select **Automatic search**, then press **OK/►** to enter.
  - Press ▲/▼ to select **Select satellite** and press **OK** to enter the satellite list. Press ▲/▼ to select your desired satellite and press **OK** to confirm or deselect it. You can also press the red button to edit the parameters of the selected satellite. Press the ⮌ button to return. Then with your desired options of **Scan mode** and **Channels**, press ▲/▼ to select the **Search** button and press **OK** to start scanning.

**5.** The channel search may take a few minutes. During the process, you can press **OK** to stop the search halfway.

**6.** After the automatic search, channels are arranged in a preset order. If you wish to skip channels, modify the preset order, rename or delete channels, press ⚙ on the remote control, select **Channel > Channel organiser** and press **OK/►** to enter.

### Accessing channels

**Using the numeric buttons**: press the corresponding numeric buttons on the remote control to access the channels.

**Using the P+/- buttons**: press the **P+/-** buttons on the remote control or the corresponding buttons on the TV set to scroll through the channels.

**Using the LIST button**: press the **LIST** button on the remote control to display the channel list and press **▲/▼/◄/►** and **OK** to select channels.

### Watching connected devices

Repeatedly press **SOURCE** on the remote control or **OK** on the TV set to toggle between TV and other input sources. Press **P+/-** to cycle through all TV channels and other input sources.

*Note: Not all models have* **OK** *button on the set.*

### Volume

**Volume control**: press the **V+/-** buttons on the remote control or the corresponding buttons on the TV set to increase or decrease the volume.

**Sound mute**: press the 🔇 button to temporarily mute the sound. Press this button again or the **V+** button to restore the sound.

### Using TV menus

1. Press ⚙ on the remote control to display the Settings menu. (Refer to Figure 2.)

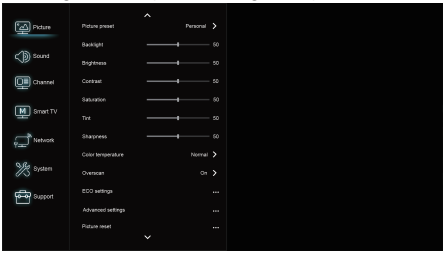



Figure 2

2. Press **▲/▼** to select the desired item, then press **OK/►** to enter the corresponding submenu.
3. In submenus, press **▲/▼** to select menu options, then press **OK/►** to enter the option list, the adjustment interface, or the corresponding submenu.
4. Press ⮌ to return to the previous menu.
5. Press **EXIT** or ⚙ to close the menu.

*Note: You can also press ≡ on the remote control, select* **Settings** *(if available) and press* **OK** *to enter the Settings menu. Some options may not be available for certain signal sources.*

### Selecting menu language

You can choose your preferred menu language following the instructions below.

1. Press ⚙ on the remote control, select **System > Menu language > Language** and press **OK/►** to enter.
2. Press **▲/▼** to select your desired language to display the menus and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

### Instant power on

This function enables you to turn on your TV quickly.

1. Press ⚙ on the remote control, select **System > Instant power on** and press **OK/►** to enter.
2. Press **▲/▼** to select **On** and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

English

### Setting up your favourite channels

You can create a list of your favourite TV channels.

1. Press **LIST**.
2. Press the red button to enter **Select channel list**, press ▲/▼ to select a list and press **OK** to enter.
3. Press ▲/▼/◄/► to scroll through the channel list and press the green button to add the selected channel to your favourite list.
4. Repeat this procedure to set up other favourite channels.
5. Press the red button to enter **Select channel list**, select **Favorites** and press **OK** to enter.
6. Press ▲/▼/◄/► to select a channel, press **OK** to watch it or press the green button to remove it from your favourite list.
7. Press **LIST** or **EXIT** to exit.

### Energy saving

1. Press ⚙ on the remote control, select **Picture > ECO settings > Energy saving** and press **OK/►** to enter.
2. Press **◄/►** to select a desired power saving mode and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

### SPDIF type

Connect the TV to an audio device through the **SPDIF** output. To select a proper sound type for your SPDIF output, press ⚙ on the remote control, select **Sound > SPDIF type** and press **OK/►** to enter. Press ▲/▼ to select an option and press **OK** to confirm.

- If you select **Auto**, the SPDIF output format is
• Dolby Digital when the programme's sound format is Dolby Digital or Dolby Digital Plus or HE-AAC.
• PCM when the programme's sound format is MPEG.
- If you select **PCM**, the SPDIF output format is PCM, regardless of the programme's sound format.
- If you select **Off**, this turns off the audio output from the audio device connected to the SPDIF output.

*Note: The options you may choose depend on the programme you are watching. If the sound is ahead of the picture, you can select* **SPDIF delay** *from the* **Sound** *menu, press* **OK/►** *then press* **◄/►** *to adjust the delay time to synchronize the sound with the picture.*

### Audio description

Audio description refers to an additional narration track for blind and visually impaired viewers of visual media, including television programmes and movies. The description narrator talks through the presentation describing what is happening on the screen during the natural pauses in the audio (and during dialogue if deemed necessary).

You can use this feature if the current broadcast contains audio description.

1. Press ⚙ on the remote control, select **Sound > Advanced settings > Audio description** and press **OK/►** to enter.
2. Select **Speaker** or **Headphone**, press **OK/►** to enter, press **◄/►** to select **Audio description** and press **OK** to confirm.
3. To adjust the volume for audio description in case this function is turned on, press ▲/▼ to select **AD volume**, press **OK/►** then press **◄/►** to set the volume. Press ⮌ to return.
4. Press **EXIT** or ⚙ to close the menu.

### Diagnostics on digital TV channels

1. Press ⚙ on the remote control and select **Channel > Channel diagnostics**.
2. Press **OK/►** to display some signal information on the current digital channel, such as signal strength, frequency, etc.
3. Press **OK** to confirm.
4. Press **EXIT** or ⚙ to close the menu.

### Using subtitles

You can enable subtitles for each TV channel. Subtitles are broadcast via Teletext or DVB-T/DVB-C digital broadcasts. With digital broadcasts, you have the additional option of selecting a preferred subtitle language.

**Turning on/off subtitles**

1. Press ⚙ on the remote control, select **Channel > Subtitle** and press **OK/►** to enter.
2. Select the **Subtitle** option, press **OK/►** to enter, press **▲/▼** to select **On** or **Off** and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

**Enabling subtitle languages on digital TV channels**

1. Press ⚙ on the remote control, select **Channel > Subtitle > Digital subtitle language** and press **OK/►** to enter.
2. Press **▲/▼** to select a subtitle language as your preferred language and press **OK** to confirm.
3. Press **▲/▼** to select **Digital subtitle language 2nd** and press **OK/►** to enter.
4. Press **▲/▼** to select a secondary subtitle language and press **OK** to confirm.
5. Press **EXIT** or ⚙ to close the menu.

**Shortcut operation:** Press **SUBTITLE** on the remote control to directly select a subtitle language available for the selected digital TV programme.

**Selecting a subtitle type on digital TV channels**

1. Press ⚙ on the remote control, select **Channel > Subtitle > Subtitle type** and press **OK/►** to enter.

2. Press ▲/▼ to select a subtitle type and press **OK** to confirm. You can select **Hearing Impaired** to display the hearing impaired subtitles with your selected language.
3. Press **EXIT** or ⚙ to close the menu.

### Using Teletext

**Selecting decoding page language**

1. Press ⚙ on the remote control, select **Channel > Teletext > Decoding page language** and press **OK/►** to enter.
2. Press ▲/▼ to select a proper type of language in which Teletext will display and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

**Digital Teletext language**

On digital TV channels, depending on the broadcaster, you may be able to enjoy a service with multiple initial Teletext pages in different languages. This function allows you to select an available language as primary language, which relates to different initial Teletext pages.

1. Press ⚙ on the remote control, select **Channel > Teletext > Digital teletext language** and press **OK/►** to enter.
2. Press ▲/▼ to select a language and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

### E-Manual

E-Manual is an electronic user manual for the product. You can find instructions for the features of this TV set.

1. Press ⚙ on the remote control, select **Support > E-Manual** and press **OK** to enter.
2. Press ◄/► to select the contents and press **OK** to enter, then press ◄/► to view the instruction pages. Press ⮌ to return to the contents.
3. Press **EXIT** to exit.

### Time access

You can access the time from digital channels following the instructions below.

1. Press ⚙ on the remote control, select **System > Timer > Clock > Auto synchronization** and press **OK/►** to enter.
2. Press ▲/▼ to select **On** and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

### Customising the input settings

You can name your connected sources according to the type of device instead of the type of socket.

1. Press ⚙ on the remote control, select **System > Input settings** and press **OK/►** to enter.
2. Press ▲/▼ to select a connector your equipment is connected to and press **OK/►** to enter.
3. Press ▲/▼ to select the type of device connected to this connector and press **OK** to confirm.
4. Press **EXIT** or ⚙ to close the menu.

After configuring, the selected source name will be displayed after the name of the related connector in the source list when pressing **SOURCE** on the remote control or **OK** on the TV set.

*Note: Not all models have* **OK** *button on the set.*

### Software update

*Note: Do not switch off or unplug the TV until the upgrade is completed.*

Press ⚙ on the remote control, select **Support > Software update** and press **OK/►** to enter. You have the following options to update the software.

- **By USB:** Enables you to install a new version software from a USB stick. Insert the USB stick in which a new version software is stored into a USB socket of the set. Select **By USB** and press **OK/►** to enter. Follow the on-screen instructions to complete the process.
- **By network:** Enables you to download and install the latest version software from the Internet. Make sure to set up a wired or wireless network connection first then select **By network** and press **OK/►** to enter. Follow the on-screen instructions to complete the process.

  *Note: Keep successful network connection during upgrade.*
- **By channel:** Enables you to install the latest version software if available from the broadcast. Select **By channel** and press **OK/►** to enter. Follow the on-screen instructions to complete the process.

### Changing to shop or home mode

1. Press ⚙ on the remote control, select **System > Location** and press **OK/►** to enter.
2. Press ▲/▼ to select **Home**, **Shop** or **Shop with demo** and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

   *Note: According to the regulation of European Commission 2009/125/EC, in Home mode, TV will be put into standby mode automatically if there is no operation in 4 hours. This feature can be deactivated in the* **System > Timer > Auto standby** *menu.*

### Common interface

Encrypted digital TV channels can be decoded with a common interface module and a card provided by a digital TV service operator.

The common interface module may enable several digital services, depending on the operator and services you choose (for example, pay TV). Contact

your digital TV service operator for more information about services and terms.

**Using the common interface module**

**WARNING: Switch off your TV before inserting a common interface module. Be sure to follow the instructions described below. Wrong insertion of a common interface module may damage both the module and your TV.**

1. Following the directions printed on the common interface module, gently insert the module into the common interface slot on the TV.
2. Push the module in as far as it will go.
3. Turn on the TV and wait for the common interface function to be activated. This may take several minutes.

   *Note: Do not remove the common interface module from the slot. Removing the module will deactivate the digital services.*

**Accessing common interface services**

After inserting and activating the common interface module, press ⚙ on the remote control, select **System > Common Interface** and press **OK/►** to enter.

This menu option is only available if the common interface module is correctly inserted and activated. On-screen applications and content are provided by your digital TV service operator.

### T-Link

Use this function to search for CEC devices connected to the HDMI sockets in your TV and enable one-touch play and one-touch standby between CEC devices.

**Enabling or disabling T-Link**

1. Press ☰ on the remote control, press **▲/▼** to select **T-Link** and press **OK/►** to enter.
2. Press **◄/►** to select **On** or **Off** and press **OK** to confirm.
3. Press **EXIT** to close the menu.

**Using one-touch play**

With one-touch play, pressing the play button on (for example) your DVD remote control starts playback on your DVD device and automatically switches your TV to the correct source, displaying DVD content.

**Using system standby**

With system standby, pressing the ⏻ button on (for example) your TV remote control switches your TV and all connected HDMI devices to standby mode.

*Note: The CEC functions depend on the devices connected and it is possible that some devices may not interoperate correctly when connected to this TV. The user manual or the manufacturer of the problematic devices should be consulted for further information.*

### Reset shop

Allows you to reset the TV to factory default settings.

1. Press ⚙ on the remote control, select **System > Reset shop** and press **OK/►** to enter.
2. Use the numeric buttons to enter the password.
3. Press **◄/►** to select **OK** and press **OK** to confirm.
4. The **Initial setup** menu appears. Follow the instructions in the section **Initial setup**.

### LED Indicator

Allows you to select the LED indicator on the TV front panel to flash or not.

1. Press ⚙ on the remote control, select **System > LED Indicator** and press **OK/►** to enter.
2. Press **▲/▼** to select **Flashing** or **Normal** and press **OK** to confirm.
3. Press **EXIT** or ⚙ to close the menu.

### Viewing pictures, playing music and watching videos from a USB storage device

Your TV is fitted with USB connectors that enable you to view pictures, listen to music or watch videos stored on USB drives.

Supported file formats:

| | |
|---|---|
| Picture | JPG/JPEG, BMP, PNG |
| Music | MP3 |
| Video | AVI, MPG, MPEG, TS |

*Notes:*

- *Some USB keys and USB products like digital cameras or mobile phones are not fully compatible with USB standard so they may not work with the TV media player. Not all USB keys or devices are compatible with the USB function. Not all above formats are recognised. The encoding formats of your files will determine whether or not they can be played.*
- *Please use high speed (minimum 5MB/s read transfer) USB drives.*

When a USB device is connected, press ⌂ on the remote control to display the homepage, press **▲/▼/◄/►** to select **Media** and press **OK** to enter. Press **◄/►** to select a USB drive in case you have inserted two or more USB drives and press **OK** to enter.

**All**

Use this function to display all supported files, if available.

1. Press **▲/▼** to select **All**, then press **OK/►** to enter the main file content browser.
2. In the main file content browser, use **▲/▼/◄/►** to select a file or an inner file folder.
3. Select an inner file folder, press **OK** to enter a sub file content browser.

4. Use ▲/▼/◄/► to select a file in either main or sub file content browser. Press ≡ to display the function menu in folder mode.
   - **Sort by:** Sort folders and files by **Name** or **Date**.
   - **Parser:** You can select **Recursive** to display all supported files from all sub file folders.
5. Select a file and press **OK** to play.
6. Press ⮌ to return to the previous interface.

**Picture**

Use this function to display pictures, if available.

1. Press ▲/▼ to select **Picture**, then press **OK/►** to enter the main file content browser.
2. Use ▲/▼/◄/► to select a picture in either main or sub file content browser, press **OK** to watch, and a slide show begins from the selected picture.
3. Press ◄/► to display the previous or the next picture, press ▼ to show the playlist, and press **OK** to display the console.
4. Press ⮌ to return to the previous interface.

**Video**

Use this function to watch videos, if available.

1. Press ▲/▼ to select **Video**, then press **OK/►** to enter the main file content browser.
2. Use ▲/▼/◄/► to select a video in either main or sub file content browser, press **OK** to watch, and automatic playback begins from the selected video.
3. Press ◄/► to fast reverse or forward when the focus is on the progress bar, press ▼ to show the playlist, and press **OK** to pause or play the video.
4. Press ≡ to display the video menu in the browser mode. You can select different picture preset settings, play modes and screen modes, etc.
5. Press ⮌ to return to the previous interface.

**Music**

Use this function to play back music, if available.

1. Press ▲/▼ to select **Music**, then press **OK/►** to enter the main file content browser.
2. Use ▲/▼/◄/► to select a song in either main or sub file content browser, press **OK** to play, and automatic playback begins from the selected song.
3. Press ◄/► to select different control buttons shown at the bottom of the TV screen and press **OK** to confirm. You can pause or play the song, select the previous or the next song, select different play modes, and show the playlist, etc. When you move the focus onto the progress bar, you can press ◄/► to fast reverse or forward.
4. Press ≡ to display the music menu in the browser mode. You can select different sound preset settings, and show the music info if available, etc. You can also select **Audio only** to listen to the music with the screen turned off. Any key press will turn the screen on.
5. Press ⮌ to return to the previous interface.

**Using EPG (Electronic Programme Guide)**

EPG is an on-screen guide that displays scheduled digital TV programmes. You can navigate, select, view and record programmes.

1. Press **GUIDE** on the remote control, the **Program Guide** menu will appear, which allows you to get information about the current or next programme playing on each channel. Navigate through the different programmes using the ▲/▼/◄/► buttons on the remote control.
2. Use the related buttons shown at the bottom of the screen to view EPG.
   - **Prev day**: Press ◀◀ to display EPG of the previous day.
   - **Next day**: Press ▶▶ to display EPG of the next day.
   - **Filter**: Programme guide filter for digital TV programmes.
     - Press ≡ to display the type list of the programme.
     - Navigate through the different types and available subtypes using the ▲/▼/◄/► buttons on the remote control.
     - Select one or more types, which you want to highlight from the **Type** list, press **OK** to select or deselect. A checkmark will appear to the left of the type when selected. When you select a type, all its subtypes (if available) will be selected accordingly.
     - Also, you can select some desired subtypes (if available) without selecting any type first.
     - Press ≡ to exit the type list.
     - After filtering, all your desired digital TV programmes will be highlighted.
   - **Schedule list**: Press the yellow button to bring up the **Schedule list** menu.
     - Press the red button to add a schedule.
     - Press the green buttton to delete a selected schedule. Press **OK** to edit a selected schedule.
   - **Add schedule**: Press the red button to add a schedule into your schedule list.
     - **Channel number**: use ◄/► to select the desired channel.
     - **Start date**: use the numeric buttons to set the start date.
     - **Start time**: use the numeric buttons to set the start time.
     - **End time**: use the numeric buttons to set the end time.
     - **Schedule type**: use ◄/► to select the available schedule type.
       - Select **Reminder** to be reminded that you can switch to the scheduled programme when the time you have set comes.

- Select **Record** (if available) if you want to start your scheduled recording when the time you have set comes. When time is out and you do not execute any operation, scheduled recording will start automatically.

• **Repeat type**: use ◄/► to select different repeat mode for the schedule.

• Press ▲/▼ to select **Add schedule**, and press **OK** to confirm.

**3.** Press **GUIDE** or **EXIT** to exit EPG.

### MHL (Mobile High-Definition Link)

*(* not available for some models)*

You can use the following functions by connecting the HDMI port identified with MHL on the TV and the USB port of an MHL compatible mobile phone or similar device with an MHL cable.

• Charge your mobile phones from the TV.
• Two-way remote operation between TV and mobile phone.
• Video or audio output from your mobile phone.

*Notes:*

- *These functions may not be available depending on the connected equipment.*
- *If there is no more battery life left in the connected device, charging will not start.*
- *To operate the mobile phone with the TV remote control, you need to turn on the* **T-Link** *function first, then press ≡ and select* **T-Link > Setup > Guide menu**. *Follow the virtual keypad to do operations.*

**Connecting MHL compatible device**

• Connect the MHL compatible device to the HDMI port identified with MHL on the TV using an MHL cable (not supplied), charging will start automatically.
• When connecting an MHL compatible device to the HDMI port identified with MHL on the TV, switch the TV input source to the corresponding HDMI input.

*Note: Do not connect the MHL compatible device to any ports other than the HDMI port identified with MHL.*

**When using MHL**

• Interoperability with MHL devices from other manufacturers is not guaranteed.
• TCL does not provide any guarantee, therefore, against operational failure such as that described below when an MHL source is connected to the TV.
  - No picture or sound
  - Some of the functions do not work by remote operation from the TV
• If MHL does not work properly, also contact the manufacturer of the source device for advice on its use.
• Do not disconnect the power plug of the TV when the TV is active and the MHL device is connected.
• Do not disconnect the power plug of the TV when the TV is in standby mode and the MHL device is connected.

## Network connection

You can set up your TV so that it can access the Internet through your local area network (LAN) using a wired or wireless connection.

### Connecting to a wired network

You can connect your TV to your LAN using cable in three ways:

- You can connect your TV to your LAN by connecting the LAN port on your TV to an external modem using a Cat 5 cable.
- You can connect your TV to your LAN by connecting the LAN port on your TV to an IP sharer, which is connected to an external modem. Use Cat 5 cable for the connection.
- Depending on how your network is configured, you may be able to connect your TV to your LAN by connecting the LAN port on your TV directly to a network wall outlet using a Cat 5 cable. Note that the wall outlet is connected to a modem or router elsewhere in your house.

1. Press ⚙ on the remote control, select **Network > Internet connection** and press **OK/►** to enter.
2. Press **▲/▼** to select **On** and press **OK** to confirm.
3. Press **▲/▼** to select **Interface** and press **OK/►** to enter.
4. Press **▲/▼** to select **Ethernet** and press **OK** to confirm.
5. Press **▲/▼** to select **IP settings** and press **OK/►** to enter. You can set **Address type** to **Auto** or **Manual**.
   - Select **Auto** if you want the TV to acquire and enter the needed IP address automatically.
   - Select **Manual** if you want to enter your IP address manually, then:
     - Press **▼** to go to the first entry field.
     - Enter the **IP address**, **Subnet mask**, **Default gateway**, **Primary DNS** and **Secondary DNS** values. Use the numeric buttons to enter numbers and the **▲/▼/◄/►** buttons to move from one entry field to another.
   - Once **IP setting** is completed, press **▲/▼/◄/►** to select **OK** and press **OK** to confirm. The set will try to connect to the network and inform you about the result. Press ⮌ to return to the **Network** menu.
6. If you want to check the information on current connection, such as **Interface**, **Address type**, **IP address**, etc., press **▲/▼** to select **Information** and press **OK/►** to enter. Press ⮌ to return to the **Network** menu.
7. If you want to check the Internet connectivity, press **▲/▼** to select **Connection test** and press **OK/►**.

### Connecting to a wireless network

Your TV is equipped to be connected to your home network wirelessly. To do that you need a wireless router or modem.

1. Press ⚙ on the remote control, select **Network > Internet connection** and press **OK/►** to enter.
2. Press **▲/▼** to select **On** and press **OK** to confirm.
3. Press **▲/▼** to select **Interface** and press **OK/►** to enter.
4. Press **▲/▼** to select **Wireless** and press **OK** to confirm.
5. Press **▲/▼** to select **Wireless settings** and press **OK/►** to enter. You can set the wireless network connection in 3 ways:
   - **a) Scan**
     - Press **▲/▼** to select **Scan** and press **OK/►** to enter. The TV will search all access points within range. Access points found by the TV will be displayed.
     - Press **▲/▼** to select an available access point, then press **OK/►** to connect.
     - Press ⮌ to return to the **Wireless settings** menu.

   *Note: If you select a protected access point, you will have to enter the corresponding password. Press* **OK** *on the remote control to display the virtual keyboard to enable you to enter the password.*

   - **b) Manual**

     Press **▲/▼** to select **Manual** and press **OK/►** to enter. You will be prompted to enter the correct SSID of an available wireless router to set up the connection. Press ⮌ to return to the **Wireless settings** menu.
   - **c) Auto**

     If your AP (Access Point) supports WPS (Wi-Fi Protected Setup), you can connect to the network via PIN (Personal Identification Number) or PBC (Push Button Configuration). WPS will automatically configure the SSID and WPA key in either mode.

     Press **▲/▼** to select **Auto** and press **OK/►** to enter.
     - **PIN**: Select **PIN** and press **OK/►** to enter. Choose a random PIN code. Make sure this code is installed on the AP. (For the procedures, refer to your router manual.) Select **OK** and press **OK** to set up the connection.
     - **PBC**: If your router has a PBC push button, select **PBC** and press **OK/►** to enter. Press the PBC push button on your router within 2 minutes before you select **OK** and press **OK** again. Your TV will automatically acquire all the network setting values it needs and connect to your network.

- Press ⮌ to return to the **Wireless settings** menu.

- Press ⮌ to return to the **Network** menu.

6. If you want to check the information on current connection, such as **Interface**, **Address type**, **IP address**, etc., press ▲/▼ to select **Information** and press **OK**/► to enter. Press ⮌ to return to the **Network** menu.
7. If you want to check the Internet connectivity, press ▲/▼ to select **Connection test** and press **OK**/►.

### Access Smart TV portal

Allows you to enjoy Internet Applications (Apps), specially adapted Internet websites for your TV. You can control the Apps with the TV remote control.

**WARNING:**

- Configure the network settings before using Smart TV applications.
- Slow responses and/or interruptions may occur, depending on your network conditions.
- If you experience a problem using an application, please contact the content provider.
- According to circumstances of the content provider, an application's updates or the application itself may be discontinued.
- Depending on your country's regulations, some applications may have limited service or not be supported.
- Changes in application content may be made without prior notice by the service provider.

1. Press ⚙ on the remote control, select **Smart TV** and press **OK**/► to enter.
2. Select **Smart TV portal** and press **OK**/► to enter.
   *Note: Since the connection with Internet takes time, it's recommended that you wait a few minutes to use the Smart TV feature after activation of TV from standby.*

### Share&See

*Note:* **Share&See** *is DLNA-compatible.*

**Connecting to your PC**

Make sure to set up a wired or wireless connection from your TV to a router first. Then connect your PC to your router either through a network cable or wirelessly. Also make sure to select **Network > Internet connection** and select **On**, and that your computer firewall won't block the connection.

**Enabling Share&See function**

Press ⚙ on the remote control, select **Smart TV > Share&See** and press **OK**/► to enter. Press ▲/▼ to select **On** and press **OK** to confirm. Follow the steps in turn specified hereafter, then you can enjoy recorded videos, images and music saved on your PC.

**Adding media from your PC for sharing**

Install a DLNA media server on your PC. The simple and familiar server you may install is Microsoft Windows Media Player 11 and 11 above. Follow the instructions below to allow your TV to access the designated files on your PC.

1. Open the Microsoft Windows Media Player 11.
2. Select **Library > Media sharing**.
3. Check the checkbox **Share my media to**.
4. Select the icon of the TV set connected to your PC.
5. Select **Allow** to allow the TV set to access your PC, and select **OK** to enable the access.
   *Note: Use the* **Settings** *button to customize your desired settings.*
6. Select **Library > Add to Library**.
7. Select your personal folders or folders of other users that you can access for sharing.
8. Select **Add** and press **OK** to enable the addition.

**Share&See application**

Select **Media** from the homepage and press **OK** to enter. Then you can view pictures, listen to music or watch videos, which are stored on your PC.

Supported file formats:

| | |
|---|---|
| Picture | JPEG, PNG, BMP |
| Music | MP3, WMA, LPCM |
| Video | FLV, TS, MP4 |

*Notes:*

- *If* **Share&See** *is switched on, the TV will display the list of available DLNA servers which are available in local network.*
- *Content from third-party DLNA servers may not play correctly on your TV due to compatibility problems.*
- *When sharing media files from a PC, certain features may be unavailable and, due to the file and encoding formats used, playback issues may occur.*
- *Because of network related conditions, playback of media files may not be error-free. When this happens, play them from a USB drive.*

### TV Remote (nScreen)

*Note: This manual covers products with either* **TV Remote** *or* **nScreen** *function.* **TV Remote** *and* **nScreen** *are compatible.*

This function allows you to turn a smart device into a sophisticated remote control, providing more features than your normal TV remote control. You can then control your TV through your smart device.

1. Press ⚙ on the remote control, select **Smart TV > TV Remote** or **nScreen** and press **OK** to enter. You will see details for downloading the TV

Remote or nScreen application and other related information.

*Note: The following instructions are based on the example of a laptop.*

2. Download and install into the laptop the correct TV Remote or nScreen application for the laptop.
3. Make sure the laptop and the TV are in the same home LAN (local area network) or network segment.
4. Run the TV Remote or nScreen application on the laptop, it will search and communicate with the TV automatically to enable the TV Remote or nScreen functionality.
5. Once the TV and the laptop are linked as described in step 4, you will be able to enjoy the extra features of the TV Remote or nScreen function.
6. To quit the TV Remote or nScreen function, press **EXIT** on the remote control.

### WiFi display

*(*not available for some models)*

WiFi display allows you to share screen and sound of your device such as a smartphone or a tablet to your TV, wirelessly (i.e. without cables). This makes it possible to view on your TV, at the same time, what your smartphone or tablet is showing. For example, you can launch a video on your smartphone and display it simultaneously on your TV, or use your tablet as game controller with content displayed on the big screen of your TV.

Whenever you want to use WiFi display, you must first activate this function in your TV. To do it follow the steps below:

1. Press ⚙ on the remote control, select **Smart TV > WiFi display** and press **OK** to enter. You will see details for this function.
2. Find the WiFi display function in your device. Different devices may have different names for this function.
3. Then click the “connection” function on the device. If connected successfully, you will see on your TV screen what the device is showing.

*Note: TCL does not guarantee that the use of the WiFi display function will be smooth or error-free since not all devices are compatible with the WiFi display function.*

### Networked waking up

This function allows you to turn on your TV from standby mode via a network. To use this function, please make sure:

1. Your TV is connected to an effective home network;
2. The desired controller, such as a smartphone, is connected to the same network as your TV;
3. An App which supports networked waking up function, has been installed into the controller;
4. **Networked standby** is set to **On** in the **Smart TV** menu.

When the TV is in networked standby mode, you can use the App to wake up the TV remotely.

### HbbTV

HbbTV (Hybrid broadcast broadband TV) is a service offered by certain broadcasters and available only on some digital TV channels. HbbTV delivers interactive television over broadband Internet. These interactive features are added to and enrich the normal digital programmes, and include services such as digital teletext, electronic programme guide, games, voting, specific information related to the current programme, interactive advertising, information magazines, catch-up TV, etc.

To use HbbTV please ensure your TV is connected to Internet and HbbTV is switched on.

*Notes:*

- *HbbTV services are broadcast- or country-dependent and may be unavailable in your area.*
- *You cannot download files to your TV with HbbTV function.*
- *Application provider or broadcasting related conditions may cause an HbbTV application to be unavailable momentarily.*
- *To access HbbTV applications you must connect your TV to the Internet via a broadband link. HbbTV applications may not work correctly in case of network related issues.*

**HbbTV access**

1. Press ⚙ on the remote control, select **Smart TV > HbbTV** and press **OK/►** to enter.
2. Press **▲/▼** to select **On** and press **OK** to confirm.
3. When you tune to a TV digital channel that offers HbbTV, this will be signalled to you by an on-screen indication (generally a red button, but other colour buttons may also be used). Press the indicated colour button to open the interactive pages.
4. Use **▲/▼/◄/►** and the colour buttons to navigate through the HbbTV pages and press **OK** to confirm.

**HbbTV deactivation**

To avoid disturbances that may be caused by HbbTV broadcasting tests, you can turn off the HbbTV function:

1. Press ⚙ on the remote control, select **Smart TV > HbbTV** and press **OK/►** to enter.
2. Press **▲/▼** to select **Off** and press **OK** to confirm.

English

### Password in Parental Control

- The default password is 1234. You can change it to a new one.
- The super password is 0423. If you forget your code, enter the super password to override any existing codes.

### Troubleshooting

Please check the following list before requesting service.

**There is no picture or sound.**

- Make sure the power cord is properly inserted in the power outlet.
- Make sure the source type is set correctly.
- Make sure the antenna is properly connected.
- Make sure the volume is not set to minimum or the sound is not set to mute.
- Make sure the headphones are not connected.
- The TV may be receiving a signal other than from TV broadcasting stations.

**Picture is not clear.**

- Make sure the antenna cable is properly connected.
- Consider whether your TV signal is being properly received.
- Poor picture quality can occur due to a VHS camera, camcorder, or other peripheral being connected at the same time. Switch off one of the other peripherals.
- The 'ghost' or double image may be caused by obstruction to the antenna due to high-rise buildings or hills. Using a highly directional antenna may improve the picture quality.
- The horizontal dotted lines shown on the pictures may be caused by electrical interference, e.g., hair dryer, nearby neon lights, etc. Turn off or remove these.

**Picture is too dark, too light or tinted.**

- Check the colour adjustment.
- Check the brightness setting.
- Check the sharpness function.

**Remote control does not work.**

- Check the batteries of the remote control.
- Make sure the remote sensor window on the TV front is not under strong fluorescent lighting.
- Try to clean the remote sensor window on the TV front with a soft cloth.

If the above suggestions do not solve your technical issue, please refer to the warranty card for service information.

### Television specifications

| | |
|---|---|
| TV Broadcasting | PAL/SECAM BG/DK/I/LL' |
| Receiving channels | VHF/UHF/Cable |
| Tuner type | Frequency synthesized |

**Operating Conditions**

Temperature 5°C - 35°C (41°F - 95°F)
Humidity 20 - 75% (non-condensing)

**Storage Conditions**

Temperature -15°C - 45°C (5°F - 113°F)
Humidity 10 - 90% (non-condensing)

### OSS Notice

This product uses the GPL (Version 2) and LGPL (version 2.0 and 2.1) and MPL (version 1.1).

To send inquiries and requests for questions regarding open source, contact nearest TCL office.

This product uses some software programs (libjpeg) which are distributed under the libjpeg Project.

This product uses some software programs which are distributed under the zlib Project.

This product uses some software programs (png, png12) which are distributed under the libpng Project.

This product uses some software programs (ogg) which are distributed under the libogg Project.

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This product uses some software programs (expat, cyberlink for C, live555) which are distributed under open source license.

This product uses some software programs which are distributed under the GPL/LGPL/MPL/MNG/BSD.

GPL software: freetype, pango, gnutls, glib, Linux kernel, gcc libgcc, gcc libstdc++, u-Boot loader, ffmepg, DFB (DirectFB), libqrencode

LGPL software: cairo, gstreamer, gst-plugins-base, gst-plugins-good, gst-plugins-bad, gst-plugins-ugly, gst-ffmpeg, glibc

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CE

TCL declares that this TV is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC (if delivered with WiFi access, built-in or USB dongle). The official declaration of conformity may be found at www.tcl.eu in support area.