Owner’s Instructions

Before operating, please read this manual thoroughly, and retain it for future reference.


• Model · Serial No.

Control Panel (depending on the model)

➢ The product colour and shape may vary depending on the model.

Front (or Side) Panel

1 On-screen menu display
2 Volume adjustment
3 Channel selection
4 Remote control sensor
5 Standby indicator
6 Power on/off

Connection Panel (depending on the model)

➢ The product colour and shape may vary depending on the model.

Rear Panel

Connecting to the RCA Input

The AUDIO-L/R and VIDEO connectors are used for equipment, such as a camcorder, video disc player, or video game device.

Connecting Headphones

The headphone jack is used for watching a television programme without disturbing the other people in the room. Prolonged use of headphones at a high volume may damage your hearing.

➢ When both the front (or side) AV and rear connectors are connected to external equipment, the front (or side) AV receives priority.

Connecting to the RCA Output

The RCA connectors are used for equipment, such as a recording VCR or audio system.

Connecting to the RCA Input

The RCA connectors are used for equipment, such as a VCR, DVD, decoder, satellite receiver, video game device, or video disc player. (When using the mono equipment, connect to the AUDIO-L input connector.) The RCA connectors are used for equipment such as a DVD with component output (480i/576i).

Connecting to an Aerial or Cable Television Network

Connect the aerial or network input cable to the 1 (75 Ω coaxial socket). To view television channels correctly, a signal must be received by the set from one of the sources: an outdoor aerial, cable television network, or satellite network. If you are using an indoor aerial, you may need to adjust it when tuning your television until you obtain a picture that is both sharp and clear.

Connecting to the RCAOutput

The RCA connectors are used for equipment, such as a recording VCR or audio system.

Connecting to the RCA Input

The RCA connectors are used for equipment, such as a VCR, DVD, decoder, satellite receiver, video game device, or video disc player. (When using the mono equipment, connect to the AUDIO-L input connector.) The RCA connectors are used for equipment such as a DVD with component output (480i/576i).

Connecting Headphones

The headphone jack is used for watching a television programme without disturbing the other people in the room. Prolonged use of headphones at a high volume may damage your hearing.

➢ When both the front (or side) AV and rear connectors are connected to external equipment, the front (or side) AV receives priority.
**Remote Control (depending on the model)**

- Operation of remote control may be affected by bright artificial light near to the TV.
- This is a special remote control for the visually impaired, and has Braille points on the POWER, Channel and Volume buttons.

![Remote Control Diagram]

1. **POWER**
   - Used to switch the TV on and off.

2. **Numeric buttons**
   - Used to select channels directly.

3. **-/+**
   - Used to select a channel numbered ten or over. Press this button, then “-” symbol is displayed. Enter the two-digit channel number.

4. **+/--**
   - Used to select a channel numbered ten or over. Press this button, then “-” symbol is displayed. Enter the two-digit channel number.

5. **MENU**
   - Used to display the on-screen menu or return to the previous menu.

6. **S.MENU** (option)
   - Used to select the turbo sound option.

7. **TURBO** (option)
   - Used to display the sound menu.

8. **SOURCE**
   - Used to display all of the available video sources.

9. **INFO**
   - Used to view the channel information and setting status you selected.

10. **PRE-CH**
    - Used to switch repeatedly between the last two channels displayed.

11. **S.MODE** (option)
    - Used to select the sound effect.

12. **P.MODE**
    - Used to select the picture effect.

13. **EXIT**
    - Used to exit from any display or return to normal viewing.

14. **MUTE**
    - Used to switch the sound off temporarily. To turn the sound back on, press the MUTE, or button.

15. **ENTER**
    - While using the on-screen menus, press the ENTER button to activate (or change) a particular item.

16. **TV**
    - Used to return to the TV mode when it is in external input mode.

17. **SLEEP**
    - Used to select a preset time interval for automatic turn off.

18. **SOURCE**
    - Used to display all of the available video sources.

19. **INFO**
    - Used to view the channel information and setting status you selected.

20. **PRE-CH**
    - Used to switch repeatedly between the last two channels displayed.

---

**Switching the Television On and Off**

The mains lead is attached to the rear of the television

1. The main voltage is indicated on the rear of the television and the frequency is 50 or 60Hz.

2. Press the "I" button (On/Off) on the front (or side) of the television.

3. Press the POWER button on the remote control to switch the television on. The programme that you were watching last is re-selected automatically. If you have not yet stored any channels, no clear picture appears. Refer to "Channel - Auto Store" on page 3 or "Channel - Manual Store" on page 4.

4. To switch the television off, press the "I" button (On/Off) on the front (or side) of the television.

---

**Placing the Television in Standby Mode**

The television can be placed in standby mode, in order to reduce power consumption and wear of the cathode ray tube. Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

1. Press the POWER button on the remote control while viewing.
   - The television is in standby mode.

2. To switch the television back on, simply press it again.
   - You can also switch on by pressing the TV, P / P, or numeric button.

- Do not leave the television in standby mode for long periods of time (when you are away on holiday, for example). Turn the television off by pressing the "I" button (On/Off) on the front (or side) of the television. It is best to unplug the set from the mains and aerial.

---

**Installing Batteries**

Remove the cover. Install two AAA size batteries, then replace the cover.

- When the remote control does not operate normally, check that the "+" and "-" ends of the batteries are inserted correctly or the batteries are drained.
- Do not mix battery types, i.e. alkaline and manganese.

---

**Remote Control (depending on the model)**

- Operation of remote control may be affected by bright artificial light near to the TV.
- This is a special remote control for the visually impaired, and has Braille points on the POWER, Channel and Volume buttons.
Viewing the Menus

1. Press the MENU button. The main menu is displayed on the screen. Its left side has five icons: Input, Picture, Sound, Channel, and Setup.

2. Press the ▲ or ▼ button to select one of the icons. Press the ENTER button to access the icon’s sub-menu.

3. Press the ▲ or ▼ button to move to items in the menu. Press the ENTER button to enter items in the menu.

4. Press the ▲/▼/◄/► button to change the selected items. Press the MENU button to return to the previous menu.

5. Press the EXIT button to exit from the menu.

Input - Source List (depending on the model)

You can switch between viewing signal from connected equipment, such as a VCR, DVD, set-top box, and the TV source (broadcast or cable).

➢ You can change the required external source simply by pressing the SOURCE button on the remote control. It might take a short period of time for pictures to be switched. To return to the TV mode, press the TV button on the remote control.

Channel - Auto Store

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers. However you can sort numbers manually and clear any channels you do not wish to watch.

Channels are sorted and stored in the order which reflects their position in the frequency range (with lowest first and highest last). The programme originally selected is then displayed.

➢ To stop the search before it has finished, press the ENTER button.

When finished, the Sort menu is displayed. To sort the stored channels into the desired numerical order, refer to “Channel - Sort” on page 4. To exit without sorting, press the EXIT button.

Setup - Plug & Play (depending on the model)

When the television is initially powered on, several basic customer settings proceed automatically and subsequently. The following settings are available.

1. If the television is in standby mode, press the POWER button on the remote control. The message Start Plug & Play is displayed. To start Plug & Play, press the ENTER button.

The Language menu is displayed.

➢ The Language menu will automatically appear after several seconds, even if the ENTER button is not pressed.

2. Select the appropriated language by pressing the ▲ or ▼ button. Press the ENTER button. The Check antenna input is displayed.

➢ If any language is not selected, the language menu will disappear about 30 seconds later.

Re-setting the Plug & Play Method:

MENU ➔ ▲/▼ (Setup) ➔ ENTER ➔ ▲/▼ (Plug & Play) ➔ ENTER

Enjoy your watching.

OK

Plug & Play

Start Plug & Play.

OK

Plug & Play

Language

English

Française

Indonesia

Türkçe

OK

Plug & Play

Check antenna input.

OK

Plug & Play

Stop

Plug & Play

Clock Set

12:00 AM

Move

Adjust

Stop

P 1   102MHz

7

Plug & Play

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

OK

Setup

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Adjust

Plug & Play

Setup

Language

English

Française

Indonesia

Türkçe

OK

Plug & Play

Check antenna input.

OK

Plug & Play

Stop

Plug & Play

Clock Set

12:00 AM

Move

Adjust

Stop

P 1   102MHz

7

Plug & Play

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Adjust

Plug & Play

Setup

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Adjust

Plug & Play

Setup

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Adjust

Plug & Play

Setup

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Adjust

Plug & Play

Setup

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Adjust

Plug & Play

Setup

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Adjust

Plug & Play

Setup

Language : English

Time

Child Lock

Blue Screen : Off

Plug & Play

Move

Enter

Skip

Plug & Play

Move

Enter

Adjust
Channel - Sort
This operation allows you to change the programme numbers of stored channels. This operation may be necessary after using auto store.

- From: Channel number to be changed.
- To: New channel number to be identified.
- Store: Confirmation the exchange of channel numbers.

Channel - Manual Store
You can store channels, including those received via cable networks. When storing channels manually, you can choose:
- Whether or not to store each of the channels found
- The programme number of each stored channel which you wish to identify

- Programme (Programme number to be assigned to a channel)
- Colour System: AUTO / PAL / SECAM / NTSC4.43 / NTSC3.58
- Sound System: BG / DK / I / M
- Search (When you do not know the channel numbers)
The tuner scans the frequency range until the first channel or the channel that you selected is received on the screen.
- Store (When you store the channel and associated programme number)

➢ If there is no sound or abnormal sound, re-select the sound standard required.

Channel - Add/Delete
You can exclude channels you have chosen from the channels you scanned. When you scan through the stored channels, those you have chosen to skip are not displayed. All of the channels that you did not specifically choose to skip are displayed during scanning.

Method:
ENTER: Select Added or Deleted

Channel - Fine Tune
If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during the search and store operation. If however the signal is weak or distorted, you may have to fine-tune the channel manually.

Method:
◄►: You can obtain a sharp and clear picture and good sound quality.
▲▼ ➔ ENTER: You can reset the setting.
MENU: You can memorise adjusted picture or sound.

Setup - Time
◆ Clock
You can set the television clock so that the current time is displayed when pressing the INFO button on the remote control. You must also set the time if you wish to use the automatic on or off timers.
➢ When pressing the “I” button (On/Off) on the front (or side) of the television, the clock setting will be reset.

◆ On Timer / Off Timer
You can set the On/Off timers so that the television will switch on or off automatically at the time you select.
➢ You must set the clock first.

◆ Auto Power Off
When you set the timer “On”, the TV will eventually turn off, if no controls are operated for 3 hours after the TV was turned on by timer. This function is only available in timer “On” mode and prevents overheating, which may occur if a TV is on for too long.

Sleep Timer
You can select a time period of between 30 and 180 minutes after which the television automatically switches to standby mode.
You can select these options simply by pressing the SLEEP button on the remote control. If the sleep timer is not yet set, Off is displayed. If it is already set, the remaining time before which the television switches to standby mode is displayed.
Setup - Child Lock

This feature allows you to prevent unauthorized users, such as children, from watching unsuitable programmes by muting out video and audio. Child Lock cannot be released using front (or side) panel buttons. Only remote control can release the Child Lock setting, so keep the remote control away from children.

- Child Lock: On/Off
  - If you want to unlock a channel, set to Off.
- Programme: Channel number to be locked.
- Lock: When press the ENTER button, the Locked is displayed.

If any channel is locked, you cannot access to the Channel and Child Lock menu by using the control buttons on the TV panel (the Not available is displayed in the Child Lock menu). You can access by using the remote control only.

- Child Lock: On
  - If you want to unlock a channel, set to Off.
  - Programme: Channel number to be locked.
  - Lock: When press the ENTER button, the Locked is displayed.

If any channel is locked, you can not access to the Channel and Child Lock menu by using the control buttons on the TV panel (the Not available is displayed in the Child Lock menu). You can access by using the remote control only.

Setup - Language / Blue Screen

- Language
  - It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.

- Blue Screen
  - If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the Blue Screen to Off.

Picture - Mode

- Mode: Dynamic / Standard / Movie / Custom
  - You can select the type of picture which best corresponds to your viewing requirements.
    - You can select these options simply by pressing the P.MODE button on the remote control.

- Contrast / Brightness / Sharpness / Colour / Tint (NTSC only)
  - The television has several settings which allow you to control the picture quality.

- Colour Tone: Cool2 / Cool1 / Normal / Warm1 / Warm2

- Reset
  - You can return to the factory defaults.
The reset function is set for each mode (Dynamic, Standard, Movie, or Custom).

Picture - Digital NR / DNle Jr

(depending on the model)

- Digital NR
  - If the signal received by the television is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

- DNle Jr
  - This feature bring you more detailed image with detail enhancement, contrast enhancement and white enhancement. New image compensation algorithm gives brighter, clearer, much detailed image to you.
  - DNle Jr technology will fit every signals into your eyes.

Sound - (depending on the model)

Mode / Adjust / Auto Volume / Turbo Sound

- Mode: Standard / Music / Movie / Speech / Custom
  - You can select the type of special sound effect to be used when watching a given broadcast.
    - You can select these options simply by pressing the S.MODE button on the remote control.

- Adjust / Bass / Treble / Balance
  - The television has several settings which allow you to control the sound quality.
    - If you make any changes to these settings, the sound mode is automatically switched to Custom.

- Auto Volume
  - Each broadcasting station has its own signal conditions, and so it is not easy to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

- Turbo Sound
  - This feature suitably emphasizes both higher and lower bands of sound (and includes other effects). You can enjoy more magnificent and dynamic sound when watching music, movie, or other channels.
    - You can change the options simply by pressing the TURBO button on the remote control.

English - 5
Troubleshooting

Before contacting the Samsung after-sales service, perform the following simple checks. If you cannot solve the problem using the instructions below, note the model and serial number of the television and contact your local dealer.

No sound or picture
- Check that the mains lead has been connected to a wall socket.
- Check that you have pressed the “I” button (On/Off) and the POWER button.
- Check the picture contrast and brightness settings.
- Check the volume.

Normal picture but no sound
- Check the volume.
- Check whether the volume MUTE button on the remote control has been pressed.

No picture or black and white picture
- Adjust the colour settings.
- Check that the broadcast system selected is correct.

Sound and picture interference
- Try to identify the electrical appliance that is affecting the television, then move it further away.
- Plug the television into a different mains socket.

Blurred or snowy picture, distorted sound
- Check the direction, location and connections of your aerial.
  This interference often occurs due to the use of an indoor aerial.

Remote control malfunctions
- Replace the remote control batteries.
- Clean the upper edge of the remote control (transmission window).
- Check that the “+” and “−” ends of the batteries are inserted correctly.
- Check that the batteries are drained.
### OSD Map

<table>
<thead>
<tr>
<th>Input</th>
<th>- Source List *</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>- TV / AV / Component</td>
</tr>
<tr>
<td>Picture</td>
<td>- Mode</td>
</tr>
<tr>
<td></td>
<td>- Dynamic / Standard / Movie / Custom</td>
</tr>
<tr>
<td></td>
<td>- Mode</td>
</tr>
<tr>
<td></td>
<td>- Brightness</td>
</tr>
<tr>
<td></td>
<td>- Contrast</td>
</tr>
<tr>
<td></td>
<td>- Sharpness</td>
</tr>
<tr>
<td></td>
<td>- Colour</td>
</tr>
<tr>
<td></td>
<td>- Tint (NTSC only)</td>
</tr>
<tr>
<td></td>
<td>- Colour Tone</td>
</tr>
<tr>
<td></td>
<td>- Cool2 / Cool1 / Normal / Warm1 / Warm2</td>
</tr>
<tr>
<td></td>
<td>- Reset</td>
</tr>
<tr>
<td></td>
<td>- Digital NR *</td>
</tr>
<tr>
<td></td>
<td>- Off / On</td>
</tr>
<tr>
<td></td>
<td>- DNle Jr *</td>
</tr>
<tr>
<td></td>
<td>- Off / On</td>
</tr>
<tr>
<td>Sound</td>
<td>- Mode *</td>
</tr>
<tr>
<td></td>
<td>- Standard / Music / Movie / Speech / Custom</td>
</tr>
<tr>
<td></td>
<td>- Bass / Treble / Balance</td>
</tr>
<tr>
<td></td>
<td>- Adjust *</td>
</tr>
<tr>
<td></td>
<td>- Off / On</td>
</tr>
<tr>
<td></td>
<td>- Auto Volume *</td>
</tr>
<tr>
<td></td>
<td>- Off / On</td>
</tr>
<tr>
<td></td>
<td>- Turbo Sound *</td>
</tr>
<tr>
<td></td>
<td>- Off / On</td>
</tr>
<tr>
<td>Channel</td>
<td>- Auto Store</td>
</tr>
<tr>
<td></td>
<td>- Programme</td>
</tr>
<tr>
<td></td>
<td>- Colour System *</td>
</tr>
<tr>
<td></td>
<td>- AUTO / PAL / SECAM / NTSC4.43 / NTSC3.58</td>
</tr>
<tr>
<td></td>
<td>- Sound System *</td>
</tr>
<tr>
<td></td>
<td>- BG / DK / I / M</td>
</tr>
<tr>
<td></td>
<td>- Search</td>
</tr>
<tr>
<td></td>
<td>- Store</td>
</tr>
<tr>
<td></td>
<td>- Add/Delete</td>
</tr>
<tr>
<td></td>
<td>- Fine Tune</td>
</tr>
<tr>
<td></td>
<td>- Sort</td>
</tr>
<tr>
<td>Setup</td>
<td>- Plug &amp; Play #</td>
</tr>
<tr>
<td></td>
<td>- Language *</td>
</tr>
<tr>
<td></td>
<td>- Clock</td>
</tr>
<tr>
<td></td>
<td>- On Timer</td>
</tr>
<tr>
<td></td>
<td>- Off Timer</td>
</tr>
</tbody>
</table>

* : It is variable depending on the model.

### Important Warranty Information

**Regarding Television Format Viewing**

Standard screen format televisions (4:3, the aspect ratio of the screen width to height) are primarily designed to view standard format full-motion video. The images displayed on them should primarily be in the standard 4:3 ratio format and constantly moving. Displaying stationary graphics and images on screen, such as the dark top and bottom letterbox bars (wide screen pictures), should be limited to no more than 15% of the total television viewing per week.

Wide screen format televisions (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature, and constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format television video and programming, should be limited to no more than 15% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. **Displaying any stationary images that exceed the above guidelines can cause uneven aging of picture tubes (CRTs) that leave subtle, but permanent burned-in ghost images in the television picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars.** On television models that offer picture sizing features, use these controls to view the different formats as a full screen picture.

Be careful in the selection and duration of television formats used for viewing. Uneven CRT aging as a result of format selection and use, as well as other burned-in images, is not covered by your Samsung limited warranty.
This page is intentionally left blank.