Contact SAMSUNG WORLD-WIDE
If you have any questions or comments relating to Samsung products, please contact the SAMSUNG customer care center.

Comment contacter Samsung dans le monde
Si vous avez des suggestions ou des questions concernant les produits Samsung, veuillez contacter le Service Consommateurs Samsung.

Contacte con SAMSUNG WORLD-WIDE
Si tiene alguna pregunta o comentarios referente a nuestros productos, por favor contácte con nuestro Servicio de Atención al Cliente.

<table>
<thead>
<tr>
<th>Country</th>
<th>Customer Care Center</th>
<th>Web Site</th>
<th>Address</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANADA</td>
<td>1-800-SAMSUNG (726-7664)</td>
<td><a href="http://www.samsung.com">www.samsung.com</a></td>
<td>Samsung Electronics Canada Inc., Customer Service 150 Sandhill Drive,Markham, Ontario L3R 8Z Canada</td>
</tr>
<tr>
<td>USA</td>
<td>1-800-SAMSUNG (726-7664)</td>
<td><a href="http://www.samsung.com">www.samsung.com</a></td>
<td>Samsung Electronics America, Inc., Customer Service 85 Challenger Road, Suite A, Parsippany, New Jersey 07054 USA</td>
</tr>
</tbody>
</table>

TFT-LCD TELEVISION

Owner’s Instructions
This device is a Class B digital apparatus.
Register your product at www.samsung.com/global/register
Precautions When Displaying a Still Image

A still image may cause permanent damage to the TV screen.

- Do not display a still image on the LCD panel for more than 2 hours as it can cause screen image retention.
- This image retention is also known as "screen burn".

To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

- Watching the LCD TV in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen.
- Playing a DVD or a game console may cause a similar effect to the screen.
- Damages caused by the above effect are not covered by the Warranty.
- Displaying still images from Video games and PC for longer than a certain period of time may produce partial after-images.

To prevent this effect, reduce the "brightness" and "contrast" when displaying still images.

Précautions à prendre lors de l'affichage d'une image fixe

Une image fixe peut causer des dommages irréversibles à l'écran du téléviseur.

- N'affichez pas une image fixe sur l'écran LCD plus de 2 heures. Cela pourra provoquer une rémanence de l'image à l'écran.
- Cette rémanence de l'image est également appelée "brillance de l'écran".

Pour éviter une telle rémanence de l'image à l'écran, réduisez la luminosité et le contraste de l'écran lorsquels vous laissez une image fixe affichée.

- Regardez l'écran LCD du téléviseur en format 4:3 pendant une longue période peut laisser des traces de bordures à gauche, à droite et au centre de l'écran, à cause de la différence d'émission de lumière sur l'écran.
- La lecture d'un DVD ou l'utilisation d'une console de jeu peut avoir un effet similaire sur l'écran.
- Les dommages provoqués par les effets qui précèdent ne sont pas couverts par la garantie.

L'affichage d'images fixes de jeux vidéo et d'ordinateurs pendant plus longtemps qu'une période spécifique peut provoquer des rémanences.

Pour éviter cela, réduisez la "luminosité" et le "contraste" lors de l'affichage d'images fixes.

Precauciones al mostrar en la pantalla una imagen fija

La imagen fija puede causar daños permanentes en la pantalla del televisor.

- No deje una imagen fija en la pantalla LCD durante más de dos horas ya que se podría producir una retención de la imagen en la pantalla. Este fenómeno de retención de imágenes también se denomina "quemadura de pantalla".

Para evitar que se produzca esta persistencia de la imagen, reduzca el nivel de luminosidad y de contraste de la pantalla cuando muestre imágenes fijas.

- El uso del televisor LCD en formato 4:3 durante un tiempo prolongado puede dejar rastros de bordes en las partes izquierda, derecha y central de la pantalla debido a las diferencias en la emisión luminosa de la pantalla.
- La reproducción de un DVD o el uso de una consola de videojuegos pueden provocar un efecto similar en la pantalla.
- El uso de videoconsolas puede causar un efecto similar en la pantalla. La garantía no cubre estos daños.

Ver imágenes fijas de videojuegos y PC durante más tiempo del indicado puede producir restos de imágenes parciales.

Para evitar este efecto, reduzca el "brillo" y el "contraste" cuando vea imágenes fijas.
## Contents

### GENERAL INFORMATION
- List of Features .................................................. 2
- Accessory Kit ...................................................... 2
- Viewing the Control Panel ..................................... 3
- Remote Control .................................................. 4
- Installing Batteries in the Remote Control .................. 7

### CONNECTIONS
- Connecting VHF and UHF Antennas ............................ 7
- Connecting Cable TV .............................................. 8
- Connecting a VCR ................................................ 9
- Connecting an S-VHS VCR ....................................... 9
- Connecting a Carcorder ([LN-S2010],[LN-S4010]) .......... 10
- Connecting a DVD Player ........................................ 10
- Connecting a DVD Player/Satellite Box via DVI .......... 10
- Connecting a Digital Audio System .......................... 11
- Connecting an Amplifier/DVD Home Theater ............. 12
- Connecting a PC ................................................. 12

### OPERATION
- Turning the TV On and Off ..................................... 13
- Plug & Play Feature .............................................. 13
- Changing Channels ............................................ 14
- Adjusting the Volume .......................................... 15
- Viewing the Display ........................................... 15
- Viewing the Menus ............................................. 15
- Memorizing the Channels ..................................... 18
- Setting Up Your Remote Control .............................. 17
- To Select the Source (depending on the model) .......... 22
- To Edit the Input Source Name (depending on the model) 22

### PICTURE CONTROL
- Using Automatic Picture Settings ......................... 23
- Adjusting the Color Tone ..................................... 24
- DNLe Dino/Digital Natural Image engine .................. 24
- Changing the Screen Size .................................... 25
- Freezing the Picture ........................................... 29
- Viewing Picture-in-Picture ..................................... 29

### SOUND CONTROL
- Customizing the Sound ......................................... 28
- Using Automatic Sound Settings .............................. 28
- Setting the MTS/MTS XT ....................................... 28
- Choosing a Multi-Channel Sound (MTS) track - Digital 29
- Choosing a Multi-Channel Sound (MTS) track - Analog 29
- Selecting the Internet Mode .................................. 30
- Automatic Volume Control .................................... 30
- Setting the Off Mute ........................................... 31
- Listening to the Sound of the Sub (PIP) Picture .......... 31

### CHANNEL CONTROL
- Selecting the Antenna ........................................ 32
- Setting the Channel Manager ................................ 32
- To set-up Your Favorite Channels ......................... 33
- Using the Channel Lists ...................................... 34
- Viewing the Channel Lists ................................... 34
- Labeling Channels ............................................ 35
- Fine Tuning Analog Channels ............................... 35
- Checking the Digital-Signal Strength ...................... 36
- LNA (Low Noise Amplifier) .................................. 36

### PC DISPLAY
- Using Your TV as a Computer (PC) Display ............... 37
- Display Modes .................................................. 37
- Setting up the TV with your PC ............................. 38

### TIME SETTING
- Setting the Clock .............................................. 40

### FUNCTION DESCRIPTION
- Selecting a Menu Language ................................ 43
- Setting the Blue Screen Mode ............................... 43
- Selecting the Film Mode ...................................... 44
- Digital Noise Reduction ..................................... 44
- Using the Game Mode ........................................ 44
- Viewing Closed Captions (On-Screen Text Messages) - Analog 46
- Viewing Closed Captions (On-Screen Text Messages) - Digital 46
- Menu Transparency Level .................................... 47
- Using the Energy Saving Feature ......................... 47
- Setting the Function Help .................................... 48
- Using the V-Chip .............................................. 48

### APPENDIX
- Identifying Problems ........................................ 54
- Installing the Stand ........................................... 54
- Disconnecting the Stand ...................................... 54
- Installing the Wall Mount Kit ([LN-S20412],[LN-S40412]) 57
- Installing the Wall Mount Kit ([LN-S20412],[LN-S40412]) 57
- Using the Anti-Theft Kensington Lock ..................... 58
- Specifications .................................................. 58

English-1
General Information

List of Features

- Adjustable picture settings that can be stored in the TV's memory.
- Automatic timer to turn the TV on and off.
- A special sleep timer.
- V-Chip function.
- Excellent Digital Interface & Networking
  With a built-in HD digital tuner, non-subscription HD broadcasts can be viewed with no Set-Top Box needed.
- Remote Control
  The supplied remote can be used to operate the TV as well as most DVD players, Set-top boxes, Cable Boxes and VCRs.
- Excellent Picture Quality
  - DNle technology provides life-like clear images.
- SRS TruSurround XT
  - SRS TruSurround XT provides a virtual Dolby surround system.

Accessories

Please make sure the following items are included with your LCD TV.
If any items are missing, contact your dealer.

Remote Control & Batteries (AAA x 2)
(BN59-00511A)

Power Cord
(3903-000144)

Cover-Bottom
LN-S2641D, LN-S3241D
(BN63-02415A)
LN-S4041D (BN63-02416A)

Screw
(6002-001294)

Owner's Instructions

Warranty Card / Registration Card
(Not available in all locations)
Viewing the Control Panel

Buttons on the Lower-Right Part of the Panel

The buttons on the lower-right panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.

> The product color and shape may vary depending on the model.

1 **SOURCE**
   Toggles between all the available input sources (TV, AV1, AV2, S-Video1, S-Video2, Component, PC, HDMI1, HDMI2).
   In the on-screen menu, use this button as you would use the **ENTER** button on the remote control.
   > A 26” model supports TV, AV, S-Video, Component, PC, HDMI1, and HDMI2 only.

2 **MENU**
   Press to see an on-screen menu of your TV’s features.

3 **+ VOL**
   Press to decrease or increase the volume.
   In the on-screen menu, use the **+ VOL** buttons as you would use the **<** and **>** buttons on the remote control.

4 **< CH**
   Press to change channels.
   In the on-screen menu, use the **< CH** buttons as you would use the **<** and **>** buttons on the remote control.

5 **SPEAKERS**

6 **REMOTE CONTROL SENSOR**
   Aim the remote control towards this spot on the TV.

7 **(POWER)**
   Press to turn the TV on and off.

8 **POWER INDICATOR**
   Blinks and turns off when the power is on and lights up in stand-by mode.
Viewing the Connection Panel

**Rear Panel Jacks:**

- Use the rear panel jacks to connect A/V components that will be connected continuously, such as VCR or DVD players.
- For more information on connecting equipment, see pages 7-12.

**LN-S2641D**

1. **AV IN 1**
   - Video and audio inputs for external devices, such as a camcorder or VCR.
   - **S-VIDEO IN 1**
     - Connect an S-Video signal from a camcorder or VCR.
2. **AUDIO OUT**
   - Connect to the audio input jacks on your Amplifier/ Home theater.
3. **DIGITAL AUDIO OUT (OPTICAL)**
   - Connect to a Digital Audio component.
4. **SERVICE 1/SERVICE 2**
   - Connector for service only.
5. **HDMI/DVI IN 1/2, DVI IN**
   - Connect to the HDMI jack of a device with an HDMI output.
   - Use the HDMI/DVI terminal for DVI connection to an external device. You should use the DVI to HDMI cable or DVI-HDMI adapter (DVI to HDMI) for video connection, and the DVI-IN *R-AUDIO-L" terminal for audio.
   - **HDMI/DVI IN terminal does not support PC.**
   - No sound connection is needed for an HDMI to HDMI connection.

6. **HEADPHONE (LN-S2641D)**
   - Connect a set of external headphones for private listening.
7. **ANT 1 IN/ANT 2 IN**
   - Connect to an antenna or cable TV system.
8. **PC IN**
   - Connect to the video and audio output jacks on your PC.
9. **COMPONENT IN**
   - Connect Component video/audio.
10. **POWER INPUT**
    - Connect the supplied power cord.
11. **KENSINGTON LOCK**
    - The Kensington lock (optional) is a device used to physically fix the system when used in a public place. If you want to use a locking device, contact the dealer where you purchased the TV.
    - The place of the Kensington Lock may be different depending on its model.

English-4
**Side Panel Jacks** (LN-S3241D/LN-S4041D)

Use the left side panel jacks to connect a component that is used only occasionally, such as a camcorder or video game. (See page 10)

1. **AV IN 2**
   Video and audio inputs for external devices.

2. **S-VIDEO IN 2**
   Video inputs for external devices with an S-Video output.

3. **HEADPHONE**
   Connect a set of external headphones for private listening.
Remote Control

You can use the remote control up to a distance of about 23 feet from the TV. When using the remote, always point it directly at the TV. You can also use your remote control to operate your VCR, Cable box, DVD player, or Set-Top Box.

1. POWER
   Turns the TV on and off.

2. NUMERIC BUTTONS
   Press to change the channel.

3. VOL +/-
   Press to select additional channels (digital and analog) being broadcast by the same station. For example, to select channel "54-3", press "54", then press "-" and "3".

4. CH MGR
   Used to display Channel Lists on the screen.

5. ANTENNA
   Press to select "AIR" or "CABLE".

6. VCR/DVD Functions
   - Rewind
   - Skip
   - Fast Forward

7. VOL +/VOL -
   Press to increase or decrease the volume.

8. MUTE
   Press to temporarily cut off the sound.

9. MENU
   Displays the main on-screen menu.

10. S.MODE
    Sound mode selection.

11. PIP
    Picture in Picture ON/OFF.

12. P.MODE
    Picture effect selection.

13. SRS
    Selects SRS TruSurround XT mode.

14. MTS
    Press to choose stereo, mono or Separate Audio Program (SAP) broadcast.

15. AUTO PROG.
    Press to automatically store selected TV/Cable channels.

16. ADD/DEL
    Use to store and delete channels in memory.

17. SET
    Sets the remote to control your TV, VCR, Cable, DVD, or Set-Top Box.

18. TV, DVD, STB, CABLE, VCR
    Press to operate your TV, DVD, STB, CABLE, or VCR.

19. SOURCE
    Press to display all of the available video sources.

20. PRE-CH
    Tunes to the previous channel.

21. FAV.CH
    Press to switch to your favorite channels.

22. E.SAVING
    Adjusts screen brightness to save energy.

23. CH </CH >
    Press to change channels.

24. EXIT
    Press to exit the menu.

25. UP ▲/DOWN ▼/LEFT ◄/RIGHT ►/ENTER
    Use to select on-screen menu items and change menu values.

26. INFO
    Press to display information on the TV screen.

27. SLEEP
    Press to select a preset time interval for automatic shut off.

28. STILL
    Press to stop the action during a particular scene. Press again to resume normal video.

29. P.SIZE
    Picture size selection.

30. SWAP
    Switches the main and sub (PIP) picture.

31. CH
    Displays the available channels in sequence. (These buttons change channels in the PIP window only.)

32. CAPTION
    Controls the caption decoder.

33. RESET
    When your remote does not work, change the batteries and press the RESET button for 2-3 seconds before use.

* This is a special remote control for the visually impaired, and has Braille points on the Power, Channel and Volume buttons.

English-6
Installing Batteries in the Remote Control

1. Lift the cover at the back of the remote control upward as shown in the figure.
2. Install two AAA size batteries.
   - Make sure to match the “+” and “−” ends of the batteries with the diagram inside the compartment.
3. Replace the cover.
   - Remove the batteries and store them in a cool, dry place if you won’t be using the remote control for a long time.
   - The remote control can be used up to about 23 feet from the TV.
   - (Assuming typical TV usage, the batteries last for about one year.)

> If the remote control doesn’t work, check the following:
1. Is the TV power on?
2. Are the plus and minus ends of the batteries reversed?
3. Are the batteries drained?
4. Is there a power outage, or is the power cord unplugged?
5. Is there a special fluorescent light or neon sign nearby?

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see “Antennas with 300 Ω Flat Twin Leads” below.

If your antenna has one lead that looks like this, see “Antennas with 75 Ω Round Leads”.

If you have two antennas, see “Separate VHF and UHF Antennas”.

Antennas with 300 Ω Flat Twin Leads
If you are using an off-air antenna (such as a roof antenna or “rabbit ears”) that has 300 Ω twin flat leads, follow the directions below.

1. Place the wires from the twin leads under the screws on a 300-75 Ω adapter (not supplied). Use a screwdriver to tighten the screws.
2. Plug the adaptor into the ANT 2 IN (CABLE) terminal on the back of the TV.

Antennas with 75 Ω Round Leads

1. Plug the antenna lead into the ANT 1 IN (AIR) terminal on the back of the TV.

Separate VHF and UHF Antennas
If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires an optional combiner-adaptor (available at most electronics shops).

1. Connect both antenna leads to the combiner.
2. Plug the combiner into the ANT 1 IN (AIR) terminal on the bottom of the rear panel.
Connecting Cable TV
To connect to a cable TV system, follow the instructions below.

Cable without a Cable Box

1. Plug the incoming cable into the ANT 2 IN (CABLE) terminal on the back of the TV.
   > Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

Connecting to a Cable Box that Descrambles All Channels

1. Find the cable that is connected to the ANT OUT terminal on your cable box.
   > This terminal might be labeled “ANT OUT”, “VHF OUT” or simply, “OUT”.

2. Connect the other end of this cable to the ANT 2 IN (CABLE) terminal on the back of the TV.

Connecting to a Cable Box that Descrambles Some Channels
If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of RF cable. (These items are available at most electronics stores.)

1. Find and disconnect the cable that is connected to the ANT IN terminal on your cable box.
   > This terminal might be labeled “ANT IN”, “VHF IN” or simply, “IN”.

2. Connect this cable to a two-way splitter.

3. Connect an RF cable between the OUTPUT terminal on the splitter and the IN terminal on the cable box.

4. Connect an RF cable between the ANT OUT terminal on the cable box and the B–IN terminal on the RF (A/B) switch.

5. Connect another cable between the other OUT terminal on the splitter and the A–IN terminal on the RF (A/B) switch.

6. Connect the last RF cable between the OUT terminal on the RF (A/B) switch and the ANT 2 IN (CABLE) terminal on the rear of the TV.

After you have made this connection, set the A/B switch to the “A” position for normal viewing. Set the A/B switch to the “B” position to view scrambled channels. (When you set the A/B switch to “B”, you will need to tune your TV to the cable box’s output channel, which is usually channel 3 or 4.)
Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 7-8). Skip step 1 if you have not yet connected to an antenna or a cable system.

1. Unplug the cable or antenna from the back of the TV.
2. Connect the cable or antenna to the ANT IN terminal on the back of the VCR.
3. Connect an RF Cable between the ANT OUT terminal on the VCR and the ANT 1 IN (AIR) or ANT 2 IN (CABLE) terminal on the TV.
4. Connect a Video Cable between the VIDEO OUT jack on the VCR and the AV IN 1 [VIDEO] jack on the TV.
5. Connect Audio Cables between the AUDIO OUT jacks on the VCR and the AV IN 1 [R-AUDIO-L] jacks on the TV.

Follow the instructions in “Viewing a VCR or Camcorder Tape” to view your VCR tape.

➤ Each external input source device has a different back panel configuration.
➤ When connecting an external device, match the color of the connection terminal to the cable.
➤ For 40 inch model, use the cables with the ferrite core.

Connecting an S-VHS VCR

Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR. (This connection delivers a better picture as compared to a standard VHS VCR.)

1. To begin, follow steps 1–3 in the previous section to connect the antenna or cable to your VCR and your TV.
2. Connect an S-Video Cable between the S-VIDEO OUT jack on the VCR and the AV IN 1 [S-VIDEO] jack on the TV.
3. Connect Audio Cables between the AUDIO OUT jacks on the VCR and the AV IN 1 [R-AUDIO-L] jacks on the TV.

An S-Video cable is usually included with an S-VHS VCR. (If not, check your local electronics store.)

➤ Each external input source device has a different back panel configuration.
➤ When connecting an external device, match the color of the connection terminal to the cable.
➤ For 40 inch model, use the cables with the ferrite core.
Connecting a Camcorder (LN-S3241D/LN-S4041D)

The side panel jacks on your TV make it easy to connect a camcorder to your TV. They allow you to view the camcorder tapes without using a VCR.

1. Connect a Video Cable (or S-Video Cable) between the AV IN2 [VIDEO] (or S-VIDEO) jack on the TV and the VIDEO OUT jack on the camcorder.

2. Connect Audio Cables between the AV IN2 [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the camcorder.

- Each external input source device has a different back panel configuration.
- When connecting an external device, match the color of the connection terminal to the cable.
- For 40 inch model, use the cables with the ferrite core.

Connecting a DVD Player

The rear panel jacks on your TV make it easy to connect a DVD player to your TV.


2. Connect Audio Cables between the COMPONENT IN [R-AUDIO-L] jacks on the TV and the AUDIO OUT jacks on the DVD player.

- Component video separates the video into Y (Luminance [brightness]), Pb (Blue) and Pr (Red) for enhanced video quality.
- Be sure to match the component video and audio connections.
- For example, if connecting the video cable to COMPONENT IN, connect the audio cable to COMPONENT IN also.
- Each external input source device has a different back panel configuration.
- When connecting an external device, match the color of the connection terminal to the cable.
- For 40 inch model, use the cables with the ferrite core.

Connecting a DVD Player/Set-Top Box via DVI

This connection can only be made if there is a DVI Output connector on the external device.

1. Connect a DVI to HDMI Cable or DVI/HDMI Adapter between the HDMI/DVI IN 1 or HDMI/DVI IN 2 connector on the TV and the DVI connector on the DVD player/Set-Top Box.

2. Connect Audio Cables between the DVI IN [R-AUDIO-L] jack on the TV and the AUDIO OUT jacks on the DVD player/Set-Top Box.

- Each external input source device has a different back panel configuration.
- When connecting an external device, match the color of the connection terminal to the cable.
- For 40 inch model, use the cables with the ferrite core.
Connecting a DVD Player/Set-Top Box via HDMI

This connection can only be made if there is an HDMI Output connector on the external device.

1. Connect an HDMI Cable between the HDMI/DVI 1 or HDMI/DVI 2 connector on the TV and the HDMI connector on the DVD player/Set-Top Box.

What is HDMI?
- HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.
- "Multimedia interface" is a more accurate name for it especially because it allows multiple channels of digital audio (5.1 channels).

The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi-channel digital audio.

- Each external input source device has a different back panel configuration.
- When connecting an external device, match the color of the connection terminal to the cable.
- For 40 inch model, use the cables with the ferrite core.

Connecting a Digital Audio System

The rear panel jacks on your TV make it easy to connect a Digital Audio System to your TV.

1. Connect an Optical Cable between the DIGITAL AUDIO OUT (OPTICAL) jacks on the TV and the Digital Audio Input jacks on the Digital Audio System.

When a Digital Audio System is connected to the "DIGITAL AUDIO OUT (OPTICAL)" terminal, Decrease the gain (volume) of the TV, and adjust the volume level with the system's volume control.

- 5.1CH audio is possible when the TV is connected to an external device supporting 5.1CH.
- For 40 inch model, use the cables with the ferrite core.
Connecting an Amplifier/DVD Home Theater


   When an audio amplifier is connected to the "AUDIO OUT [R-AUDIO-L]" terminals, decrease the volume (volume) of the TV, and adjust the volume level with the Amplifier's volume control.

   ➤ Each external input source device has a different back panel configuration.
   ➤ When connecting an external device, match the color of the connection terminal to the cable.
   ➤ For 40 inch model, use the cables with the ferrite core.

Connecting a PC

1. Connect a D-Sub Cable between PC IN [PC] connector on the TV and the PC output connector on your computer.

2. Connect a PC Audio Cable between PC IN [AUDIO] jack on the TV and the Audio Out jack of the sound card on your computer.

   ➤ Each external input source device has a different back panel configuration.
   ➤ When connecting an external device, match the color of the connection terminal to the cable.
   ➤ The HDMI/DVI jacks do not support PC connection.
   ➤ For 40 inch model, use the cables with the ferrite core.

<table>
<thead>
<tr>
<th>Internal Speakers</th>
<th>Audio Out (Optical, L/R Out)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>RF</td>
</tr>
<tr>
<td>Internal Mute Off</td>
<td>Speaker Output</td>
</tr>
<tr>
<td>Internal Mute On</td>
<td>Mute</td>
</tr>
<tr>
<td>Video No Signal</td>
<td>Mute</td>
</tr>
</tbody>
</table>

When "internal mute" is set to "On", Sound menu is except "Multi-Track Options" and "Digital Output" cannot be adjusted.
Operation

Turning the TV On and Off

Press the **POWER** button on the remote control.
You can also use the **POWER** button on the front of the panel.

Plug & Play Feature

When the TV is initially powered on, two basic customer settings proceed automatically and subsequently:

1. Press the **POWER** button on the remote control.
   The message "Menu language, Channels and Time will be set." is displayed.
   Press the **ENTER** button, then "Select the language of the OSD" menu is automatically displayed.

2. Press the **ENTER** button to enter the language.
   Press the – or + buttons to select language, then the **ENTER** button.
   "Select the antennas to memorize." menu is automatically displayed.

3. Press the – or + buttons to memorize the channels of the selected connection.
   Press the **ENTER** button to select "Start".
   ➢ If the antenna is connected to ANT 1 (AIR), select "Air" and if it is connected to ANT 2 (CABLE), select "Cable".
   ➢ If both ANT 1 (AIR) and ANT 2 (CABLE) are connected, select the "Air + Cable".
   ➢ In Cable mode, you can select the correct signal source among CTD, HRG, and IRC by pressing the – or + button, then press the **ENTER** button.
   Contact your local cable company to identify the type of cable system that exists in your particular area.

4. The TV will begin memorizing all of the available channels.
   After all the available channels are stored, the Auto program menu reappears.
   Press the **ENTER** button when channel memorization is complete.
   "Select the clock mode." menu is automatically displayed.
   ➢ To stop the search before it has finished, press the **ENTER** button with stop selected.

5. Press the **ENTER** button.
   Press the – or + buttons to select "Manual" or "Auto", then the **ENTER** button.
   Switches the Daylight Saving Time function on or off.
6. Press the ENTER( ) button.
   Press the ▲ or ▼ buttons to select "Yes" or "No", then the ENTER( ) button.
   "Select the time zone in which you live" menu is automatically displayed.

7. Press the ▲ or ▼ buttons to highlight the time zone for your local area (and to
   move the highlight to the appropriate time zone on the map of the United States).
   Press the ENTER( ) button. If you have received a digital signal, the time will
   be set automatically.
   If not, see page 40 to set the clock.

8. The message "Enjoy your watching." is displayed.
   When you have finished, press the ENTER( ) button.

If you want to reset this feature...

1. Press the MENU button.
   Press the ▲ or ▼ buttons to select "Setup", then press the ENTER( ) button.

2. Press the ▲ or ▼ buttons to select "Plug & Play".
   Press the ENTER( ) button.
   For further details on setting up options, refer to the previous page.
   ➤ Plug & Play can only be accessed in the TV mode.

Changing Channels

Using the Channel Buttons

1. Press the CH( ) or CH( ) button to change channels.
   ➤ When you press the CH( ) or CH( ) button, the TV changes channels in sequence.
   You will see all the channels that the TV has memorized. (The TV must have memorized
   at least three channels). You will not see channels that were either erased or not
   memorized. See page 16 to memorize channels.

Using the PRE-CH Button to select the Previous Channel

1. Press the PRE-CH button.
   The TV will switch to the last channel viewed.
   ➤ To quickly switch between two channels that are far apart, tune to one channel, then use
   the number button to select the second channel. Then use the PRE-CH button to quickly
   alternate between them.


Adjusting the Volume

1. Press the VOL+ or VOL- buttons to increase or decrease the volume.

Using Mute

At any time, you can cut off the sound using the MUTE button.

1. Press MUTE and the sound cuts off.
   The word “MUTE” will appear in the lower-left corner of the screen.

2. To turn mute off, press the MUTE button again, or simply press the
   VOL+ or VOL- buttons.

Viewing the Display

The display identifies the current channel and the status of certain audio-video settings.

1. Press the INFO button on the remote control.
   The TV will display the channel, the type of sound, and the status of certain picture and sound settings.
   ➤ The screen displays disappear after about ten seconds.

   Press the INFO button once more or wait approximately 10 seconds and it disappears automatically.

Viewing the Menus

1. With the power on, press the MENU button.
   The main menu appears on the screen. Its left side has five icons:
   Input, Picture, Sound, Channel, Setup.

2. Use the ← or → buttons to select one of the five icons.
   Then press the ENTER button to access the icon’s sub-menu.

3. Press the EXIT button to exit.

   The on-screen menus disappear from the screen after about two minutes.
Memorizing the Channels

Your TV can memorize and store all of the available channels for both “off-air” (antenna) and cable channels. After the available channels are memorized, use the CH+ or CH- buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic).

Selecting the Video Signal-source
Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

1. Press the MENU button to display the menu.
Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER® button.

2. Press the ENTER® button select “Antenna”.
Press the ▲ or ▼ buttons to select “Air” or “Cable”, then press the ENTER® button.
Press the EXIT button to exit.

Storing Channels in Memory (Automatic Method)

1. Press the MENU button to display the menu.
Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER® button.

2. Press the ▲ or ▼ buttons to select “Auto Program”, then press the ENTER® button.

3. Press the ▲ or ▼ buttons to select the antenna connection, then press the ENTER® button.
   ▶ Air: “Air” antenna signal, Cable: “Cable” antenna signal.
   Air=Cable: “Air” and “Cable” antenna signals.

4. After all the available channels are stored, the “Auto Program” menu reappears.
Press the EXIT button to exit.

Alternately, you can press the AUTO PROG. button on the remote control to bring up the Auto Program menu.
Setting Up Your Remote Control

After it has been set up properly, your remote control can operate in five different modes: TV, VCR, Cable, DVD, or Set-Top Box. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

> The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top Boxes.

### Setting Up the Remote to Operate Your VCR

1. Turn off your VCR.
2. Press the VCR button on your TV’s remote control.
3. Press the SET button on your TV’s remote control.
4. Using the number buttons on your remote control, enter three digits of the VCR code listed on page 19 of this manual for your brand of VCR. Make sure you enter three digits of the code, even if the first digit is a “0”. (If more than one code is listed, try the first one.)
5. Press the POWER button on the remote control. Your VCR should turn on if your remote is set up correctly.

If your VCR does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of VCR. If no other codes are listed, try each VCR code, 000 through 080.

---

Note on Using Remote Control Modes: VCR

When your remote control is in “VCR” mode, the volume buttons still control your TV’s volume.

---

### Setting Up the Remote to Operate Your Cable Box

1. Turn off your cable box.
2. Press the CABLE button on your TV’s remote control.
3. Press the SET button on your TV’s remote control.
4. Using the number buttons on your remote control, enter three digits of the cable box code listed on page 20 of this manual for your brand of cable box. Make sure you enter three digits of the code, even if the first digit is a “0”. (If more than one code is listed, try the first one.)
5. Press the POWER button on the remote control.

Your cable box should turn on if your remote is set up correctly.

If your cable box does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of cable box. If no other codes are listed, try each code, 000 through 046.

---

Note on Using Remote Control Modes: Cable Box

When your remote control is in “CATV” mode, the volume buttons still control your TV’s volume.
Setting Up the Remote to Operate Your DVD

1. Turn off your DVD.

2. Press the DVD button on your TV's remote control.

3. Press the SET button on your TV's remote control.

4. Using the number buttons on your remote control, enter three digits of the DVD code listed on page 20–21 of this manual for your brand of DVD. Make sure you enter three digits of the code, even if the first digit is a “0”. (If more than one code is listed, try the first one.)

5. Press the POWER button on the remote control.
   Your DVD should turn on if your remote is set up correctly.
   If your DVD does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of DVD. If no other codes are listed, try each code, 000 through 141.

Note on Using Remote Control Modes: DVD
When your remote control is in “DVD” mode, the volume buttons still control your TV's volume.

Setting Up the Remote to Operate Your Set Top Box

1. Turn off your STB.

2. Press the STB button on your TV's remote control.

3. Press the SET button on your TV's remote control.

4. Using the number buttons on your remote control, enter three digits of the STB code listed on page 21 of this manual for your brand of STB. Make sure you enter three digits of the code, even if the first digit is a “0”. (If more than one code is listed, try the first one.)

5. Press the POWER button on the remote control.
   Your STB should turn on if your remote is set up correctly.
   If your STB does not turn on after set-up, repeat steps 2, 3 and 4, but try one of the other codes listed for your brand of STB. If no other codes are listed, try each code, 000 through 074.

Note on Using Remote Control Modes: STB
When your remote control is in “STB” mode, the volume buttons still control your TV's volume.
## Remote Control Codes

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## DVD

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English-20
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## SAMSUNG STB

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## Brand

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</table>
To Select the Source (depending on the model)

Use to select TV or other external input sources connected to the TV.

Use to select the input source of your choice.

1. Press the MENU button to display the menu.
   Then press the ENTER button to select "Input".

2. Press the ENTER button to select "Source List".
   Then press the or buttons to select signal source, then press the ENTER button.
   - When you connect equipment to the LCD, you can choose between the following sets of jacks: TV, AV1, AV2, S-Video1, S-Video2, Component, PC, HDMI1, or HDMI2 on the TV's rear panel.
   - HDMI1 or HDMI2 input can only be selected when the external device is turned on and connected via HDMI.
   - AV2/S-Video2 is placed on the side of the TV.
   - 26 inch model only supports AV, S-Video, Component, PC, HDMI1, and HDMI2.
   - You can choose only those external devices that are connected to the TV.

Press the SOURCE button on the remote control to view an external signal source.

To Edit the Input Source Name (depending on the model)

Name the device connected to the input jacks to make your input source selection easier.

1. Press the MENU button to display the menu.
   Then press the ENTER button to select "Input".
   Then press the or buttons to select "Edit Name", then press the ENTER button.

2. Press the or buttons to select "AV1", "AV2", "S-Video1", "S-Video2", "Component", "PC", "HDMI1" or "HDMI2" input jack, then press the ENTER button.
   - 26 inch model only supports AV, S-Video, Component, PC, HDMI1, and HDMI2.

   Then press the EXIT button to exit.
Using Automatic Picture Settings

Your TV has four automatic picture settings ("Dynamic", "Standard", "Movie", and "Custom") that are preset at the factory.

You can activate either Dynamic, Standard, Movie, or Custom by making a selection from the menu.

Or, you can select "Custom" which automatically recalls your personalized picture settings.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select "Picture", then press the ENTER button.

2. Press the ENTER button to select "Mode".
   Press the ENTER button again.
   Press the ▲ or ▼ buttons to select the "Dynamic", "Standard", "Movie", or "Custom" picture setting. Press the ENTER button.
   - Choose Dynamic to increase the clarity and sharpness of the picture.
   - Choose Standard for the standard factory settings.
   - Choose Movie when watching movies.
   - Choose Custom if you want to adjust the settings according to personal preference.

   ➤ When in PC mode, Tint, Sharpness and Color are not available.
   ➤ Picture mode needs to be adjusted separately for each input.

3. Press the ▲ or ▼ buttons to select "Contrast", "Brightness", "Sharpness", "Color", or "Tint", then press the ENTER button.

4. Press the ▼ or ▶ buttons to decrease or increase the value of a particular item.
   For example, if you select "Contrast", pressing the ▶ button increases it.
   Press the ENTER button.

   Press the EXIT button to exit.

➤ "Tint" doesn't operate in HDMI, PC or any Component mode.
• The Tint cannot be adjusted while watching Digital TV.
• Each adjusted setting will be stored separately according to its input mode.
• When you make changes to Contrast, Brightness, Sharpness, Color, Tint, OSD color will also be adjusted accordingly.
Adjusting the Color Tone

You can change the color of the entire screen according to your preference.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Picture”, then press the ENTER button.
2. Press the ENTER button.
3. Press the ▲ or ▼ buttons to select “Color Tone”, then press the ENTER button.
4. Press the ▲ or ▼ buttons to select “Cool2”, “Cool1”, “Normal”, “Warm1”, or “Warm2”. Press the ENTER button.
   ➢ Choose from the following Color Tone settings:
   “Cool 2”, “Cool 1”, “Normal”, “Warm 1”, “Warm 2” according to personal preference.

Resetting the Picture Settings to the Factory Defaults

1. Press the ▲ or ▼ buttons to select “Reset”, then press the ENTER button.
   Press the EXIT button to exit.
   ➢ Each mode can be reset.

DNle Demo (Digital Natural Image engine)

Samsung’s new technology brings you more detailed images with contrast, white enhancement and 3D noise reduction.
You can see how DNle improves the picture by setting DNle demo mode to On.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Picture”, then press the ENTER button.
2. Press the ▲ or ▼ buttons to select “DNle Demo”, then press the ENTER button.
   ➢ This function doesn’t work when the Input Source is PC.
3. Press the ▲ or ▼ buttons to select “On” or “Off”, then press the ENTER button.
   Press the EXIT button to exit.

   - **DNle Demo: Off**
     DNle Demo mode is deactivated.
   - **DNle Demo: On**
     The right-hand side of the screen shows the improved DNle image.
     The left-hand side of the screen shows the original image.
     The “DNle Demo” is designed to show the difference between the regular and DNle pictures.
     By default, the product displays the picture with DNle applied.
Changing the Screen Size

Screen size selection depends on the type of video input.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Picture”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “Size”, then press the ENTER button.

3. Press the ▲ or ▼ buttons to select the screen format you want.
   Press the ENTER button.
   Press the EXIT button to exit.
   - 16:9: Sets the picture to 16:9 wide mode.
   - Zoom1: Magnifies the size of the picture on the screen.
   - Zoom2: Expands the Zoom1 format picture.
   - 4:3: Sets the picture to 4:3 normal mode.

Alternatively, you can press the P.SIZE button on the remote control repeatedly to change the picture size.

► If you watch a still image for a long time (over 2 hours), an image may be burned onto the screen.
   - View the TV in 16:9 mode as much as possible.
   - HD (High Definition)
   16:9 - 1080i (1920×1080), 720P (1280×720)

16:9
Sets the picture to 16:9 wide mode.

4:3
Sets the picture to 4:3 normal mode.

Zoom1
The screen size when Wide screen is vertically enlarged.

Zoom2
The screen size when the Zoom1 screen is vertically enlarged.

► In TV, VIDEO, S-VIDEO and all COMPONENT (480i, 480p) modes, all screen modes can be selected.
   (16:9 • Zoom1 • Zoom2 • 4:3).
   - In TV(NTSC), DVI, PC, HDMI, COMPONENT (720p, 1080i) modes, only 16:9 & 4:3 modes can be selected.
   - You must select Zoom with P.Size button on the remote (not in the OSD menu) if you want to move the Zoom 1 or 2 picture up or down.
   - You cannot change the picture size when PIP is set to Double.
Freezing the Picture

1. Press the **STILL** button to freeze a moving picture.
   - Normal sound will still be heard. Press again to cancel.

Viewing Picture-in-Picture

This product has one built-in tuner, which does not allow PIP to function in the same mode. For example, you cannot watch one TV channel in the main screen, and a different one in the PIP screen. Please see "PIP Settings" below for details. You can use the PIP feature to simultaneously watch two video sources. (See page 31 to select the PIP picture sound.)

➤ While V-Chip is in operation, the PIP function cannot be used.

**Activating Picture-in-Picture**

1. Press the **MENU** button to display the menu.
   Press the † or ‡ buttons to select "Picture", then press the **ENTER** button. Press the † or ‡ buttons to select "PIP", then press the **ENTER** button.

2. Press the **ENTER** button again.
   Press the † or ‡ buttons to select "On", then press the **ENTER** button.
   ➤ If you turn the TV off while watching in PIP mode and turn it on again, the PIP window will disappear.

Alternately, you can press the **PIP** button on the remote control repeatedly to activate or deactivate the PIP.

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</table>
Selecting a Signal Source (External A/V) for PIP

3. Press the ▲ or ▼ buttons to select “Source”, then press the ENTER button. Select the source of the sub picture (PIP) by pressing the ▲ or ▼ buttons and press the ENTER button.
   - MAIN: TV(Analog) / PIP: HDMI(1, 2)
   - The sub picture can serve different source selections based on what the main picture is set to.
   - In the PIP Source selection menu, ‘TV’ represents both analog and digital tuning.

Swapping the Contents of the PIP and Main image

4. Press the ▲ or ▼ buttons to select “Swap”, then press the ENTER button.

Changing the PIP Channel

5. Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button. Press the ▲ or ▼ buttons to select the desired channel in the PIP window.
   - Press the ENTER buttons.
   - MAIN: Av(1, 2), S-Video(1, 2), Component / PIP: TV(Digital)
   - MAIN: PC, HDMI(1,2) / PIP: TV(Analog)
   - The channel can be active when the sub picture is set to TV.

6. Press the PIP Channel buttons on the remote control.

Changing the Position of the PIP Window

6. Press the ▲ or ▼ buttons to select “Position”, then press the ENTER button. Press the ▲ or ▼ buttons to select the desired PIP window position.
   - Press the ENTER buttons.
   - The Double (□), Double Wide (□□) mode cannot be selected in Position mode.

Changing the Size of the PIP Window

7. Press the ▲ or ▼ buttons to select “Size”, then press the ENTER button. Press the ▲ or ▼ buttons to select the desired size of the PIP window.
   - Press the ENTER button.
   - Press the EXIT button to exit.
   - If main picture is in PC mode, Size is not available.
   - You cannot choose the PIP option.
   - You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
   - You can adjust picture position only by using the ▲ ▼ size menu.
Sound Control

Customizing the Sound

The sound settings can be adjusted to suit your personal preference. (Alternatively, you can use one of the “automatic” settings.)

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “Equalizer”, then press the ENTER button.
   Press the EXIT button to exit.

3. Press the ◄ or ► buttons to select a particular frequency to adjust.
   Press the ▲ or ▼ buttons to increase or decrease the level of the particular frequency.
   Press the ENTER button.

Using Automatic Sound Settings

Your TV has automatic sound settings (“Standard”, “Music”, “Movie”, “Speech”, and “Custom”) that are preset at the factory. Or, you can select “Custom”, which automatically recalls your personalized sound settings.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.

2. Press the ENTER button to select “Mode”.
   Press the ▲ or ▼ buttons to select “Standard”, “Music”, “Movie”, “Speech”, or “Custom” sound setting, then press the ENTER button.
   Press the EXIT button to exit.

   • Choose Standard for the standard factory settings.
   • Choose Music when watching music videos or concerts.
   • Choose Movie when watching movies.
   • Choose Speech when watching a show that is mostly dialog (i.e., news).
   • Choose Custom to recall your personalized settings (see “Customizing the Sound”).

Setting the TruSurround XT

TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “SRS TruSurround XT”, then press the ENTER button.

3. Press the ▲ or ▼ buttons to select “On” or “Off”, then press the ENTER button.
   Press the EXIT button to exit.
Choosing a Multi-Channel Sound (MTS) track - Digital

The digital-TV transmission system is capable of simultaneous transmission of many audio tracks (for example, simultaneous translations of the program into foreign languages). The availability of these additional “multitracks” depends upon the program.

Preferred Language

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.
   ▶ Quick way to access the MTS menu: Just press the “MTS” button on the remote control.
   You can listen in a language other than your chosen language by pressing the MTS button.
2. Press the ▲ or ▼ buttons to select “Multi-Track Options”, then press the ENTER button.
3. Press the ENTER button to select “Preferred Language”. Press the ▲ or ▼ buttons to choose the language (English, Spanish or French) you want, then press the ENTER button.
Press the EXIT button to exit.

Choosing a Multi-Channel Sound (MTS) track - Analog

Multi-Track Sound

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.
2. Press the ▲ or ▼ buttons to select “Multi-Track Options”, then press the ENTER button.
3. Press the ▲ or ▼ buttons to select “Multi-Track Sound”, then press the ENTER button. Press the ▲ or ▼ buttons to select a setting you want, then press the ENTER button.
Press the EXIT button to exit.

- Choose Mono for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose Stereo for channels that are broadcasting in stereo.
- Choose SAP to listen to the Separate Audio Program, which is usually a foreign-language translation.

Press the MTS buttons on the remote control repeatedly to select “Mono”, “Stereo”, or “SAP”. 

English-29
Selecting the Internal Mute

Sound output from the TV speakers is muted.

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.
2. Press the ▲ or ▼ buttons to select “Internal Mute”, then press the ENTER button.
3. Press the ▲ or ▼ buttons to select “On”, then press the ENTER button. Press the EXIT button to exit.

Automatic Volume Control

Reduces the differences in volume level among broadcasters.

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.
2. Press the ▲ or ▼ buttons to select “Auto Volume”, then press the ENTER button.
3. Press the ▲ or ▼ buttons to set Auto Volume “On” then press the ENTER button. Press the EXIT button to exit.
Setting the On/Off Melody

A melody sound can be set to come on when the TV is powered On or Off.

1. Press the MENU button to display the menu.
2. Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.
3. Press the ▲ or ▼ buttons to select “Melody”, then press the ENTER button.

Listening to the Sound of the Sub (PIP) Picture

When the PIP feature is activated, you can listen to the sound of the sub (PIP) picture.

1. Press the MENU button to display the menu.
2. Press the ▲ or ▼ buttons to select “Sound”, then press the ENTER button.
3. Press the ▲ or ▼ buttons to select “Sub”, then press the ENTER button.

- Main: Used to listen to the sound of the main picture.
- Sub: Used to listen to the sound of the sub picture.

➤ You can select this option when “PIP” is set to “On”.

DOLBY DIGITAL

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“Dolby” and the double-D symbol are trademarks of Dolby Laboratories.
Channel Control

Selecting the Antenna

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.
2. Press the ENTER button to select “Antenna”. Press the ▲ or ▼ buttons to select “Air” or “Cable”, then press the ENTER button. Press the EXIT button to exit.
3. Press the ANTENNA button on the remote control.
4. If the antenna is connected to ANT 1 IN (AIR), select “Air” and if it is connected to ANT 2 IN (CABLE), select “Cable”.
5. If both ANT 1 IN (AIR) and ANT 2 IN (CABLE) are connected, select the antenna input you want. If the antenna input is not selected properly, noise may appear on the screen.

Setting the Channel Manager

You can add or delete a channel so only channels you want are displayed.

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.
2. Press the ▲ or ▼ buttons to select “Channel Manager”, then press the ENTER button.
3. Press the ENTER button to select “All”.
4. Press the ▲ or ▼ buttons to select a channel to delete, then press the ENTER button. Press the ▲ or ▼ buttons to select “Delete”, then press the ENTER button to delete the channel.
5. Press the ▲ or ▼ buttons to select a channel to add, then press the ENTER button.
   - Press the ▲ or ▼ buttons to select “Add”, then press the ENTER button to add the channel.
   - Press the EXIT button to exit.
   - All selected channels will be shown on “Added menu”.

   - Red (P.MODE) button: Press repeatedly to select “All”, “Added”, or “Favorite”.
   - Green (S.MODE) button: Press to add all channels deleted.
   - Yellow (P.SIZE) button: Press to delete all channels memorized.

6. You can also use the number buttons to directly select the channel that will be added or erased. Press the ADD/DEL button on the remote control.

### To set-up Your Favorite Channels

You can set channels you watch frequently as favorites.

1. Press the MENU button to display the menu.
   - Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “Channel Manager”, then press the ENTER button.

3. Press the ▲ or ▼ buttons to select “Added”, then press the ENTER button.

4. Press the ▲ or ▼ buttons to select your favorite channels to watch among the labeled channels. Then press the ENTER button.
   - Press the ▲ or ▼ buttons to select “Favorite”, then press the ENTER button.
   - The “❤” symbol will be highlighted and the channel will be set as a Favorite.
   - To cancel your Favorite channel selection, press the ENTER button until the “❤” symbol is no longer highlighted.

5. Press the EXIT button to exit.
   - Only memorized channels can be set as favorite channels.
   - All favorite channels will be shown in the “Favorite” menu.

6. To select the favorite channels you have set up, press the FAV.CH button on the remote.
Using the Channel Lists

Displays the channel list automatically when you press CH MGR button on the remote. (Choose All, Added, or Favorite)

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “Channel Manager”, then press the ENTER button.

3. Press the ▲ or ▼ buttons to select “Default List Mode”, (the CH.List you want to appear when you press CH.MGR) then press the ENTER button.
   Press the ▲ or ▼ buttons to select “All”, “Added”, or “Favorite” then press the ENTER button.
   The CH.List you want to appear when you press CH.MGR.
   Press the EXIT button to exit.

Alternatively, press the CH MGR button on the remote control to bring up the Channel Lists.

Viewing the Channel Lists

You can display a list of all channels, added channels or your favorite channels.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “Channel Manager”, then press the ENTER button.

3. Press the ▲ or ▼ buttons to select “All”, “Added” or “Favorite”, then press the ENTER button.

4. Press the ▲ or ▼ buttons to select “Channel” and ENTER button.
   To toggle between your all channels, added channels, or favorite channels, use the red (P.Mode) button on the remote control.

   • Red (P.Mode) button: Press repeatedly to select “All”, “Added”, or “Favorite”.

English-34
Labeling Channels

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.
   Press the ▲ or ▼ buttons to select “Name”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select the channel to be assigned a new name,
   then press the ENTER button.
   Press the ▲ or ▼ buttons to select a letter, a number or a blank
   (Results in this sequence: A, Z, 0...9, +, -, /, blank).
   Press the ▶ button to switch to the next field, which will be selected.
   Select a second letter or digit by pressing the ▲ or ▼ buttons, as above.
   Repeat the process to select the last three digits. When you have finished,
   press the ENTER button to assign the new name.
   To erase the assigned new name, select “Clear” by pressing the ▼ or ▶ button,
   then press the ENTER button.
   Press the EXIT button to exit.

   ➤ The names of digital broadcasting channels are automatically assigned and thus
   cannot be assigned by users.

Fine Tuning Analog Channels

Use fine tuning to manually adjust a particular channel for optimal reception.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “Fine Tune”, then press the ENTER button.

3. Press the ◀ or ▶ buttons to adjust the fine tuning.
   ➤ If you do not store the fine-tuned channel in memory, adjustments are not saved.

4. To store the fine tuning setting in the TV’s memory, press the ENTER button.
   To reset the fine tuning setting, press the ◀ button to select “Reset”,
   then press the ENTER button.

Press the EXIT button to exit.

➤ Only analog TV channels can be fine tuned.
➤ “*” will appear next to the name of fine-tuned channels.
Checking the Digital-Signal Strength

Unlike analog channels, which can vary in reception quality from “snowy” to clear, digital (HDTV) channels have either perfect reception quality or you will not receive them at all. So, unlike analog channels, you cannot fine tune a digital channel. You can, however, adjust your antenna to improve the reception of available digital channels.

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “Signal Strength”, then press the ENTER button. If the signal strength meter indicates that the signal is weak, physically adjust your antenna to increase the signal strength. Continue to adjust the antenna until you find the best position with the strongest signal. Press the EXIT button to exit.

LNA (Low Noise Amplifier)

If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Channel”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “LNA”, then press the ENTER button.

3. Press the ▲ or ▼ buttons to select “On”, then press the ENTER button. Press the EXIT button to exit.

► LNA functions when antenna is set to Air or Cable. Settings will be stored separately in each channel. (See "Selecting the antenna," on page 32.)
Using Your TV as a Computer (PC) Display

Setting Up Your PC Software (Based on Windows XP)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

1. First, click on "Control Panel" on the Windows start menu.

2. When the control panel window appears, click on "Appearance and Themes" and a display dialog-box will appear.

3. When the control panel window appears, click on "Display" and a display dialog-box will appear.

4. Navigate to the "Settings" tab on the display dialog-box.

The correct size setting (resolution)

Optimum: 1360 x 768 pixels

If a vertical frequency option exists on your display settings dialog box, the correct value is "60" or "60 Hz". Otherwise, just click "OK" and exit the dialog box.

Display Modes

If the signal from the system equals the standard signal mode, the screen is adjusted automatically. If the signal from the system doesn’t equal the standard signal mode, adjust the mode by referring to your video card’s user guide; otherwise there may be no video. For the display modes listed below, the screen image has been optimized during manufacture.

<table>
<thead>
<tr>
<th>Mode</th>
<th>Resolution</th>
<th>Horizontal Frequency (kHz)</th>
<th>Vertical Frequency (Hz)</th>
<th>Pixel Clock Frequency (MHz)</th>
<th>Sync Polarity (HV)</th>
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<tr>
<td>IRM</td>
<td>640 x 350</td>
<td>31.456</td>
<td>70.036</td>
<td>26.715</td>
<td>+ / -</td>
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<tr>
<td></td>
<td>720 x 400</td>
<td>31.456</td>
<td>70.037</td>
<td>28.322</td>
<td>- / +</td>
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<tr>
<td></td>
<td>640 x 480</td>
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<td>58.940</td>
<td>25.175</td>
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<td>70.000</td>
<td>26.560</td>
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<td>640 x 480</td>
<td>37.850</td>
<td>72.809</td>
<td>31.500</td>
<td>- / -</td>
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<tr>
<td></td>
<td>640 x 480</td>
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<td>75.000</td>
<td>31.500</td>
<td>- / -</td>
</tr>
<tr>
<td></td>
<td>800 x 600</td>
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<td>- / +</td>
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<tr>
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<td>50.000</td>
<td>- / +</td>
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<td>46.875</td>
<td>75.000</td>
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<td>+ / +</td>
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<td></td>
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<td>70.000</td>
<td>45.500</td>
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<tr>
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<td>+ / +</td>
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<td>60.015</td>
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<td>+ / +</td>
</tr>
</tbody>
</table>
Setting up the TV with your PC

How to Auto Adjust

Use the Auto Adjust function to have the TV set automatically adjust the video signals the monitor receives. The function also automatically fine-tunes the settings and adjusts the frequency values and positions.

➢ This function does not work in DVI-Digital mode.

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Setup”, then press the ENTER button. Press the ▲ or ▼ buttons to select “PC”, then press the ENTER button. ➢ Change to the PC mode first.

2. Press the ▲ or ▼ buttons to select “Auto Adjustment”, then press the ENTER button. Press the EXIT button to exit.

Adjusting the Screen Quality

The purpose of the picture quality adjustment is to remove or reduce picture noise. If the noise is not removed by fine tuning alone, then do the frequency adjustments to the utmost and fine tune again. After the noise has been reduced, re-adjust the picture so that it is aligned on the center of the screen.

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Setup”, then press the ENTER button. Press the ▲ or ▼ buttons to select “PC”, then press the ENTER button. ➢ Change to the PC mode first.

2. Press the ENTER button to select “Image Lock”.

3. Press the ▲ or ▼ buttons to select “Coarse” or “Fine”, then press the ENTER button. Press the ▲ or ▼ buttons to adjust the screen quality. Vertical stripes may appear or the picture may be blurry. Press the ENTER button. Press the EXIT button to exit.
Changing the Screen Position

1. Press the MENU button to display the menu.
   - Press the ◄ or ► buttons to select “Setup”, then press the ENTER button.
   - Press the ◄ or ► buttons to select “PC”, then press the ENTER button.
   - Change to the PC mode first.

2. Press the ◄ or ► buttons to select “Position”, then press the ENTER button.

3. Press the ◄ or ► buttons to adjust the V-Position.
   - Press the ◄ or ► buttons to adjust the H-Position.
   - Press the ENTER button.
   - Press the EXIT button to exit.

Initializing the Screen Position or Color Settings

1. Press the MENU button to display the menu.
   - Press the ◄ or ► buttons to select “Setup”, then press the ENTER button.
   - Press the ◄ or ► buttons to select “PC”, then press the ENTER button.
   - Change to the PC mode first.

2. Press the ◄ or ► buttons to select “Image Reset”, then press the ENTER button.
   - Press the EXIT button to exit.
**Time Setting**

**Setting the Clock**

Setting the clock is necessary in order to use the various timer features of the TV. Also, you can check the time while watching the TV. (Just press the INFO button.)

**Option 1: Setting the Clock Manually**

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select "Setup", then press the ENTER button.
   Press the ▲ or ▼ buttons to select "Time", then press the ENTER button.

2. Press the ENTER button to select "Clock".

3. Press the ENTER button to select "Clock Mode".
   Press the ▲ or ▼ buttons to select "Manual", then press the ENTER button.

4. Press the ▲ or ▼ buttons to select "Clock Set", then press the ENTER button.

5. Press the ◀ or ▶ buttons to move to "Month", "Day", "Year", "Hour", "Minute", or "am/pm". Set the date and time you wish by pressing the ▲ or ▼ buttons, then press the ENTER button.

Press the EXIT button to exit.

➢ The current time will appear every time you press the INFO button.
➢ You can set the month, day, year, hour, and minute directly by pressing the number buttons on the remote control.
Option 2: Setting the Clock Automatically

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Setup”, then press the ENTER button. Press the ▲ or ▼ buttons to select “Time”, then press the ENTER button.

2. Press the ENTER button to select “Clock”.

3. Press the ENTER button to select “Clock Mode”. Press the ▲ or ▼ buttons to select “Auto”, then press the ENTER button.

4. Press the ▲ or ▼ buttons to select “Time Zone”, then press the ENTER button.

5. Press the ▲ or ▼ buttons to highlight the time zone for your local area (and to move the highlight to the appropriate time zone on the map of the United States), then press the ENTER button.

6. Press the ▲ or ▼ buttons to select “DST” (Daylight Saving Time), then press the ENTER button. Press the ▲ or ▼ buttons to select “On” or “Off”, then press the ENTER button. Press the EXIT button to exit.

   ➤ Depending on the broadcast station and signal, the auto time may not be set correctly. If this occurs, set the time manually.

   ➤ Antenna or cable must be connected in order to set the time automatically.
Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 30 to 180 minutes).

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select "Setup", then press the ENTER button. Press the ▲ or ▼ buttons to select "Time", then press the ENTER button. 
   - Quick way to access the sleep timer setting: Simply press the “SLEEP” button on the remote control.
2. Press the ▲ or ▼ buttons to select "Sleep Timer", then press the ENTER button.
3. Press the ▲ or ▼ buttons to adjust "Minute".
4. Press the ▶ button to select "Activation". Press the ▲ or ▼ buttons to select "On", then press the ENTER button. Press the EXIT button to exit.

Setting the On/Off Timer

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select "Setup", then press the ENTER button. Press the ▲ or ▼ buttons to select "Time", then press the ENTER button.
2. Press the ▲ or ▼ buttons to select "On Timer", then press the ENTER button.
3. Press the ▲ or ▼ buttons to adjust "Hour", then press the ▶ button to move to the next step. Set other items using the same method as above.
   - When finished, press the MENU button to return.
     - The current time will appear every time you press the INFO button.
     - You can set the hour, minute, channel, and directly by pressing the number buttons on the remote control.
4. Press the ▲ or ▼ buttons to select "Off Timer", then press the ENTER button.
5. Press the ▲ or ▼ buttons to adjust "Hour", then press the ▶ button to move to the next step. Set other items using the same method as above.
   - Press the EXIT button to exit.
Function Description

Selecting a Menu Language

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select "Setup", then press the ENTER® button.
   Press the ▲ or ▼ buttons to select “Language”, then press the ENTER® button.

2. Press the ▲ or ▼ buttons to select the appropriate language: “English”, “Spanish” or “French”. Press the ENTER® button.
   Press the EXIT button to exit.

Setting the Blue Screen Mode

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” mode to “Off”

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Picture”, then press the ENTER® button.

2. Press the ▲ or ▼ buttons to select “Blue Screen”, then press the ENTER® button.

3. Press the ▲ or ▼ buttons to select “On” or “Off” then press the ENTER® button.
   Press the EXIT button to exit.
   ➢ Pressing the ▲ or ▼ buttons will alternate between “On” or “Off”
Selecting the Film Mode

On: Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality.
Off: Switches off the Film mode.

1. Press the MENU button to display the menu.
   Press the \( \uparrow \) or \( \downarrow \) buttons to select “Picture”, then press the ENTER button.
2. Press the \( \uparrow \) or \( \downarrow \) buttons to select “Film Mode”, then press the ENTER button.
3. Press the \( \uparrow \) or \( \downarrow \) buttons to select “On”, then press the ENTER button.
   Press the EXIT button to exit.

> Film mode is supported in TV, VIDEO, S-VIDEO, and COMPONENT 480i

Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

1. Press the MENU button to display the menu.
   Press the \( \uparrow \) or \( \downarrow \) buttons to select “Picture”, then press the ENTER button.
2. Press the \( \uparrow \) or \( \downarrow \) buttons to select “Digital NR”, then press the ENTER button.
3. Press the \( \uparrow \) or \( \downarrow \) buttons to select “On”, then press the ENTER button.
   Press the EXIT button to exit.

Using the Game Mode

When connecting to a game console such as PlayStation or Xbox, you can enjoy a more realistic gaming experience by selecting game mode:

1. Press the MENU button to display the menu.
   Press the \( \uparrow \) or \( \downarrow \) buttons to select “Setup”, then press the ENTER button.
2. Press the \( \uparrow \) or \( \downarrow \) buttons to select “Game Mode”, then press the ENTER button.
3. Select Off or On by pressing the \( \uparrow \) or \( \downarrow \) buttons, then press the ENTER button.
4. Press the EXIT button to exit.
   > To disconnect the game console and connect another external device, cancel game mode in the picture menu.
   > If you display the TV menu in Game mode, the screen shakes slightly.
   > Game Mode is not available in TV mode.
Viewing Closed Captions (On-Screen Text Messages) - Analog

The Analog Caption function operates when watching regular analog channels or when you have an analog external component (such as a VCR) connected.

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Setup”, then press the ENTER button.
2. Press the ▲ or ▼ buttons to select “Caption”, then press the ENTER button.

3. Press the ENTER button to select “Caption”. Press the ▲ or ▼ buttons to select “On”, then press the ENTER button.

4. Press the ▲ or ▼ buttons to select “Caption Mode”, then press the ENTER button. Press the ▲ or ▼ buttons to select submenu (Default, CC1~CC4 or Text1~Text4) you want, then press the ENTER button. Press the EXIT button to exit.

- The default is “CC1”.
- CC1: The Primary Synchronous Caption Service. These are captions in the primary language that must be in sync with the sound, preferably matched to a specific frame.
- CC2: The Special Non-Synchronous Use Captions. This channel carries data that is intended to augment information carried in the program.
- CC4: Special Non-Synchronous Use Captions. Similar to CC2.
- Text1: First Text Service. This may be various non-program related data.
- Text3/Text4: Third and Fourth Text Services. These data channels should be used only if Text1 and Text2 are not sufficient.

➤ The Caption feature doesn’t work in COMPONENT(480p, 720p, 1080i), HDMI modes.
- The availability of captions depends on the program being broadcast.
Viewing Closed Captions (On-Screen Text Messages) - Digital

The Digital Captions function operates on digital channels.

1. Press the MENU button to display the menu. Press the \( \uparrow \) or \( \downarrow \) buttons to select "Setup", then press the ENTER\( \uparrow \) button.
2. Press the \( \uparrow \) or \( \downarrow \) buttons to select "Caption", then press the ENTER\( \uparrow \) button.
3. Press the ENTER\( \uparrow \) button to select "Caption". Press the \( \uparrow \) or \( \downarrow \) buttons to select "On", then press the ENTER\( \uparrow \) button.

4. Press the \( \uparrow \) or \( \downarrow \) buttons to select "Caption Mode", then press the ENTER\( \uparrow \) button. Press the \( \uparrow \) or \( \downarrow \) buttons to select submenu (Default, Service1~Service6, CC1~CC4, or Text1~Text4) you want, then press the ENTER\( \uparrow \) button.

5. Press the \( \uparrow \) or \( \downarrow \) buttons to select "Caption Options", then press the ENTER\( \uparrow \) button.
   - "Caption Options" are available only when "Service1~Service6" can be selected in "Caption Mode".
   - Service1~6 in digital caption mode may not be available depending on the broadcast.

6. Press the \( \uparrow \) or \( \downarrow \) buttons to select "Size", then press the ENTER\( \uparrow \) button. Press the \( \uparrow \) or \( \downarrow \) buttons to select the desired Caption option, then press the ENTER\( \uparrow \) button.
   Press the \( \uparrow \) or \( \downarrow \) button to select the desired sub-menu options (see options below), then press ENTER\( \uparrow \).
   Press the EXIT button to exit.
   - The availability of captions depends on the program being broadcast.
   - "Default" means to follow the standard set by the broadcaster.

- Size: This option consists of "Default", "Small", "Standard", and "Large". The default is "Standard".
- Font Style: This option consists of "Default", "Style0 ~ Style 7". You can change the font you want. The default is "Style 0".
- Foreground Color: This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan". You can change the color of the letter. The default is "White".
- Background Color: This option consists of "Default", "White", "Black", "Red", "Green", "Blue", "Yellow", "Magenta", and "Cyan". You can change the background color of the caption. The default is "Black".
- Foreground Opacity: This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the opacity of the letter.
- Background Opacity: This option consists of "Default", "Transparent", "Translucent", "Solid", and "Flashing". You can change the background opacity of the caption.
- Return to Default: This option sets each of "Size", "Font Style", "Foreground Color", "Background color", "Foreground Opacity", and "Background Opacity" to its default.

Press the CAPTION button repeatedly to select "On" or "Off".
Menu Transparency Level

Adjusts the transparency of the menu screen.

1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ buttons to select “Setup”, then press the **ENTER** button.
2. Press the ▲ or ▼ buttons to select “Menu Transparency”,
   then press the **ENTER** button.
3. Press the ▲ or ▼ buttons to select level, then press the **ENTER** button.
   Press the **EXIT** button to exit.

Using the Energy Saving Feature

This feature adjusts the brightness of the TV in order to reduce power consumption. When watching TV at night, set the “Energy Saving” mode option to “High” to reduce eye fatigue as well as power consumption.

1. Press the **MENU** button to display the menu.
   Press the ▲ or ▼ buttons to select “Setup”, then press the **ENTER** button.
2. Press the ▲ or ▼ buttons to select “Energy Saving”, then press the **ENTER** button.
   Select the required option (Off, Low, Medium, High) by pressing ▲ or ▼ button.
   Press the **ENTER** button.
   Press the **EXIT** button to exit.

   To select the Energy Saving setting you have made, press the **E.SAVING** button on the remote control.
Setting the Function Help

Displays help on the menu functions.

1. Press the MENU button to display the menu.
   Press the ⇧ or ⇩ buttons to select “Setup”, then press the ENTER button.
2. Press the ⇧ or ⇩ buttons to select “Function Help”, then press the ENTER button.

3. Press the ⇧ or ⇩ buttons to select “On”, then press the ENTER button.
   Press the EXIT button to exit.
   ➤ The predetermined value of the function help is On.

Using the V-Chip

The V-Chip feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the V-Chip restrictions are set up or changed.

➤ When the V-chip feature is activated, the PIP features do not function.

Setting Up Your Personal ID Number (PIN)

1. Press the MENU button to display the menu.
   Press the ⇧ or ⇩ buttons to select “Setup”, then press the ENTER button.
2. Press the ⇧ or ⇩ buttons to select “V-Chip”, then press the ENTER button.
   The message “Enter PIN” will appear. Enter your 4-digit PIN number.
   ➤ The default PIN number of a new TV set is “0-0-0-0”.

3. The “V-Chip” screen will appear.
   Press the ⇧ or ⇩ buttons to select “Change PIN”, then press the ENTER button.
   The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them.
   As soon as the 4 digits are entered, the “Confirm new PIN” screen appears.
   Re-enter the same 4 digits. When the Confirm screen disappears,
   your PIN has been memorized.

Press the EXIT button to exit.

➤ If you forget the PIN, press the remote-control buttons in the following sequence,
which resets the pin to 0-0-0-0 : Power Off → Mute → 8 → 2 → 4 → Power On.

English-48
How to Enable/Disable the V-Chip

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select "Setup", then press the ENTER button.

2. Press the ▲ or ▼ buttons to select "V-Chip", then press the ENTER button.
   The message "Enter PIN" will appear. Enter your 4 digit PIN number.

3. The "V-Chip" screen will appear.
   To enable the V-Chip feature, press the ENTER button so that the "V-Chip Lock" field is "On". (Pressing the ▲ or ▼ buttons will alternate between "On" and "Off").
   Press the ENTER button.
   Press the EXIT button to exit.

How to Set up Restrictions Using the “TV Parental Guidelines”

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.)
Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select "Setup", then press the ENTER button.

2. Press the ▲ or ▼ buttons to select "V-Chip", then press the ENTER button.
   The message "Enter PIN" will appear. Enter your 4 digit PIN number.
3. The "Y-Chip" screen will appear. Press the ▲ or ▼ buttons to select “TV Parental Guidelines”, then press the ENTER® button.

4. The “TV Parental Guidelines” screen will appear. Press the ▲ or ▼ buttons to select one of the six aged based categories:

<table>
<thead>
<tr>
<th>TV-Y: Young children</th>
<th>TV-G: General audience</th>
</tr>
</thead>
<tbody>
<tr>
<td>TV-Y7: Children 7 and over</td>
<td>TV-PG: Parental guidance</td>
</tr>
<tr>
<td>TV-MA: Mature audience</td>
<td></td>
</tr>
<tr>
<td>TV-14: Viewers 14 and over</td>
<td></td>
</tr>
</tbody>
</table>

5. At this point, one of the TV-Ratings is selected. Press the ENTER® button. Depending on your existing setup, the ' ' symbol will be selected. (Blank = Unblocked,  = Blocked)

While " " is selected, press the ENTER® button to block or unblock the category. To select a different TV-Rating, press the ▲ or ▼ buttons and then repeat the process.

➤ Allow all: Press to unlock all TV ratings. / Block all: Press to lock all TV ratings.

➤ The TV-Y, TV-Y7, TV-G, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

F: Fantasy violence / D: Sexually Suggestive Dialog / L: Adult Language / S: Sexual situation / V: Violence

➤ The V-Chip will automatically block certain categories that are "more restrictive". For example, if you block "TV-Y7" category, then TV-Y will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14, and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

6. How to set the F, D, L, S and V sub-ratings.

First, select one of these TV-Ratings: TV-Y, TV-Y7, TV-G, TV-PG, TV-14, or TV-MA (See Step 4, on previous page), and press the ▶ button. The " " symbol will be displayed for each sub-rating.

While " " is selected, press the ENTER® button to go to a sub-rating. Press ENTER® to block the sub-rating. To select a different TV-Rating, press the ▲ or ▼ buttons and then repeat the process.

➤ The V-Chip will automatically block certain categories that are "more restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

7. Press the MENU button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes.)

➤ Those categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else).

The restrictions for these two groups work independently. If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

English-50
How to Set up Restrictions Using the MPAA Ratings: G, PG, PG-13, R, NC-17, X, NR

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).

1. Press the MENU button to display the menu.
   Press the ▲ or ▼ buttons to select “Setup”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “V-Chip”, then press the ENTER button.
   The message “Enter PIN” will appear. Enter your 4 digit PIN number.

3. The “V-Chip” screen will appear. Press the ▲ or ▼ buttons to select “MPAA Rating”,
   then press the ENTER button.

4. The “MPAA Rating” screen will appear. Repeatedly press the ▲ or ▼ buttons to
   select a particular MPAA category. Pressing the ▲ or ▼ buttons will cycle through
   the MPAA categories:

   - G:  General audience (no restrictions).
   - PG:  Parental guidance suggested.
   - R:  Restricted. Children under 17 should be accompanied by an adult.
   - NC-17: No children under age 17.
   - X:  Adults only.
   - NR:  Not rated.

   ➤ Allow all: Press to unlock all TV ratings. / Block all: Press to lock all TV ratings.
   ➤ While a particular category is selected, press the ENTER button to activate it.
   The “*” symbol will be displayed. Press the ENTER button to block or unblock the category.
   ➤ The V-Chip will automatically block any category that is “more restrictive”.
   For example, if you block the “PG-13” category, then “R”, “NC-17” and “X” will automatically
   be blocked also.

Press the EXIT button to exit.
How to Set up Restrictions Using the 'Canadian English'

1. Press the MENU button to display the menu. Press the ⬆ or ⬇ buttons to select "Setup", then press the ENTER button.

2. Press the ⬆ or ⬇ buttons to select "V-Chip", then press the ENTER button. The message "Enter PIN" will appear. Enter your 4digit PIN number.

3. The "V-Chip" screen will appear. Press the ⬆ or ⬇ buttons to select "Canadian English", then press the ENTER button.

4. Press the ⬆ or ⬇ buttons to select a appropriate restriction. Press the ENTER button to activate the restriction selected. The * symbol is indicated.

Press the EXIT button to exit.

• E: Exempt programming includes...news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
• C: Programming intended for children under age 8.
• C8+: Programming generally considered acceptable for children 8 years and over to watch on their own.
• G: General programming, suitable for all audiences.
• PG: Parental Guidance.
• 14+: Programming contains themes or content which may not be suitable for viewers under the age of 14.
• 18+: Adult programming.
How to Set up Restrictions Using the “Canadian French”

1. Press the MENU button to display the menu. Press the ▲ or ▼ buttons to select “Setup”, then press the ENTER button.

2. Press the ▲ or ▼ buttons to select “V-Chip”, then press the ENTER button. The message “Enter PIN” will appear. Enter your 4 digit PIN number.

3. The “V-Chip” screen will appear. Press the ▲ or ▼ buttons to select “Canadian French”, then press the ENTER button.

4. Press the ▲ or ▼ buttons to select a appropriate restriction. Press the ENTER button to activate the restriction selected. The “ ■ ” symbol is indicated.
   Press the EXIT button to exit.
   - Allow all: Press to unlock all TV ratings. / Block all: Press to lock all TV ratings.
   - E: Exempt programming includes news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.
   - G: General
   - 8 ans+: Not recommended for young children.
   - 13 ans+: Programming may not be suitable for children under the age of 13.
   - 16 ans+: Programming is not suitable for children under the age of 16.
   - 18 ans+: Programming restricted to adults.
## Identifying Problems

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, call your nearest Samsung service center.

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
</table>
| Poor picture | Try another channel.  
Adjust the antenna.  
Check all wire connections. |
| Poor sound quality | Try another channel.  
Adjust the antenna. |
| No picture or sound | Try another channel.  
Press the SOURCE button.  
Make sure the TV is plugged in.  
Check the antenna connections. |
| No sound or sound is too low at maximum volume | First, check the volume of units connected to your TV (digital broadcasting receiver, DVD, cable broadcasting receiver, VCR, etc.). Then, adjust the TV volume accordingly. |
| Picture rolls vertically | Check all wire connections. |
| The TV operates erratically | Unplug the TV for 30 seconds, then try operating it again. |
| The TV won’t turn on | Make sure the wall outlet is working. |
| Remote control malfunctions | Replace the remote control batteries.  
Clean the upper edge of the remote control (transmission window).  
Check the battery terminals. |
| “Check signal cable” message | Ensure that the signal cable is firmly connected to the PC source. |
| “Not Supported Mode” message | Check the maximum resolution and the frequency of the Video Adapter.  
Compare these values with the data in the Display Modes. |
| Digital broadcasting screen problem | Please check the digital signal strength and input antenna. |
| The image is too light or too dark | Adjust the Brightness and Contrast.  
Adjust the Fine tuning. |
| Horizontal bars appear to flicker, jitter or shimmer on the image | Adjust the Coarse tuning and then adjust the Fine tuning. |
| Vertical bars appear to flicker, jitter or shimmer on the image | Adjust the Coarse tuning and then adjust the Fine tuning. |
| Screen is black and power indicator light blinks steadily | On your computer check: Power, Signal Cable.  
The TV is using its power management system.  
Move the computer’s mouse or press any key on the keyboard. |
| Image is not stable and may appear to vibrate when you have a computer connected to the PC input | If the setting is not correct, use your computer utility program to change the display settings.  
Your TV supports multisync display functions within the following frequency domains: |

<table>
<thead>
<tr>
<th>Frequency Domain</th>
<th>Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizontal frequency (kHz)</td>
<td>30–60</td>
</tr>
<tr>
<td>Vertical Frequency (Hz)</td>
<td>60–75</td>
</tr>
<tr>
<td>PC Maximum refresh rate (at 60 Hz)</td>
<td>1360 x 768</td>
</tr>
</tbody>
</table>

| Image is not centered on the screen | Adjust the horizontal and vertical position.  
The screen position must be adjusted on the output source (i.e. STB) with a digital signal. |
| If a still image is displayed for an extended period of time, residual images or blurring may appear | When you need to leave the monitor unused for an extended period of time, adjust the settings so that the monitor automatically goes into energy saving mode or activates the screen saver to display moving images. |

The TFT LCD panel uses a panel consisting of sub-pixels (1N-S76D: 3.147 76d, 1N-S7M1D: 3.147 76d, 1N-S8M1D: 3.147 76d) which require sophisticated technology to produce. However, there may be few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.
Installing the Stand

1. Place the TV faced down on a soft cloth or cushion on a table.
2. Put the stand into the hole at the bottom of the TV.
3. Insert screw into the hole indicated and tighten.

Disconnecting the Stand

1. Place the TV faced down on a soft cloth or cushion on a table.
2. Remove four screws from the back of the TV.
3. Separate the stand from the TV.
4. Cover the bottom hole with a cap.
Installing the Wall Mount Kit (LN-S2641D)

This installation is to be used when attaching the wall mount to a wall. When attaching to other building materials, please contact your nearest dealer. This LCD TV accepts a 200 mm x 100 mm VESA-compliant mounting interface pad.

Components (Sold separately)

- Wall-Bracket
- Set-Bracket
- Screw: 8 EA
- Wood Screw: 4 EA
- Anchor: 4 EA
- Installation Guide

How to assemble the Wall Mount Bracket

1. ① Mark the location on the wall where the hole will be drilled.
   ② Make over 35 mm-depth-hole on the marked location using drill.
   ③ Fix anchors ④ on each hole on the wall.
   ④ Connect wall-bracket ⑤ to the wall with wood screws ⑥ after fitting anchors ④ into the wall-bracket ⑤.

   Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.

2. ⑤ Turn the power off and unplug the power cord from the outlet.
   ⑥ Place the TV faced down on a soft cloth or cushion on a table.
   ⑦ Attach the set-bracket ⑦ onto the rear side of the TV set and secure the screws ⑧.

3. ⑧ Insert three Hangers of the set-bracket ⑧ into the grooves of the wall-bracket ⑤.
   ⑨ Fix set-bracket ⑦ and wall-bracket ⑤ with screws ⑥.

   Note: Before installing the TV on the wall, first connect the cables.
Installing the Wall Mount Kit (LN-S3241D, LN-S4041D)

This installation is to be used when attaching the wall mount to a wall.
When attaching to other building materials, please contact your nearest dealer.
This LCD TV accepts a 200 mm x 200 mm VESA-compliant mounting interface pad.

Components (Sold separately)

- Wall-Bracket
- Set-Bracket
- Screw: 8 EA
- Wood Screw: 7 EA
- Anchor: 7 EA
- Screw: 3 EA
- Installation Guide

How to assemble the Wall Mount Bracket

1. ① Mark the location on the wall where the hole will be drilled.
   ② Make over 35 mm-depth-hole on the marked location using drill.
   ③ Fix anchors ④ on each hole on the wall.
   ④ Connect wall-bracket ⑤ to the wall with wood screws ⑥ after fitting anchors ④ into the wall-bracket ⑤.
   *Note: If the bracket is not firmly fixed to the wall, LCD TV can fall off.*

2. ⑤ Turn the power off and unplug the power cord from the outlet.
   ⑥ Place the TV faced down on a soft cloth or cushion on a table.
   ⑦ Attach the set-bracket ⑧ onto the rear side of the TV set and secure the screws ⑨.

3. ⑨ Insert three Hangers of the set-bracket ⑧ into the grooves of the wall-bracket ⑤.
   ⑩ Fix set-bracket ⑧ and wall-bracket ⑤ with screws ⑨.
   *Note: Before installing the TV on the wall, first connect the cables.*
Using the Anti-Theft Kensington Lock

The Kensington lock is a device used to physically fix the system when using it in a public place. The locking device has to be purchased separately. The appearance and locking method may differ from the illustration depending on the manufacturer. Please refer to the manual provided with the Kensington lock for proper use.

![Diagram of Kensington lock installation]

(Optional)

- The place of the Kensington Lock may be different depending on its model.

1. Insert the locking device into the Kensington slot on the LCD TV (Figure 1), and turn it in the locking direction (Figure 2).
2. Connect the Kensington lock cable.
3. Fix the Kensington lock to a desk or a heavy stationary object.

### Specifications

<table>
<thead>
<tr>
<th></th>
<th>LN-S2641D</th>
<th>LN-S3241D</th>
<th>LN-S4641D</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Screen Size (Diagonal)</strong></td>
<td>26 inch</td>
<td>32 inch</td>
<td>40 inch</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>AC110V-120V 60Hz</td>
<td>AC110V-120V 60Hz</td>
<td>AC110V-120V 60Hz</td>
</tr>
<tr>
<td><strong>Power Consumption</strong></td>
<td>133 W</td>
<td>166 W</td>
<td>216 W</td>
</tr>
<tr>
<td><strong>PC Resolution</strong></td>
<td>1360 x 768 @ 60 Hz</td>
<td>1360 x 768 @ 60 Hz</td>
<td>1360 x 768 @ 60 Hz</td>
</tr>
<tr>
<td><strong>Sound Output</strong></td>
<td>5W X 2</td>
<td>10W X 2</td>
<td>10W X 2</td>
</tr>
<tr>
<td><strong>Dimensions (WxHxD)</strong></td>
<td>26.68 X 3.11 X 18.31 inches (724 X 79 X 463 mm)</td>
<td>25.4 X 3.23 X 21.42 inches (622.5 X 82 X 544 mm)</td>
<td>43.3 X 3.74 X 28.02 inches (1100.5 X 99.5 X 711 mm)</td>
</tr>
<tr>
<td><strong>With stand</strong></td>
<td>26.68 X 6.93 X 20.63 inches (724 X 226 X 524 mm)</td>
<td>36.4 X 9.81 X 24.21 inches (922.5 X 249 X 615 mm)</td>
<td>43.3 X 12.89 X 28.04 inches (1100.5 X 330 X 722.5 mm)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>23.6 lbs (10.7 kg)</td>
<td>30.64 lbs (13.9 kg)</td>
<td>52.25 lbs (37.9 kg)</td>
</tr>
<tr>
<td><strong>Environmental Considerations</strong></td>
<td>50°F to 104°F (10°C to 40°C)</td>
<td>50°F to 104°F (10°C to 40°C)</td>
<td>50°F to 104°F (10°C to 40°C)</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>41°F to 104°F (5°C to 40°C)</td>
<td>5% to 95%, non-condensing</td>
<td>5% to 95%, non-condensing</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>10% to 90%, non-condensing</td>
<td>10% to 90%, non-condensing</td>
<td>10% to 90%, non-condensing</td>
</tr>
<tr>
<td><strong>Storage Temperature</strong></td>
<td>-4°F to 113°F (-20°C to 45°C)</td>
<td>-4°F to 113°F (-20°C to 45°C)</td>
<td>-4°F to 113°F (-20°C to 45°C)</td>
</tr>
<tr>
<td><strong>Storage Humidity</strong></td>
<td>5% to 95%, non-condensing</td>
<td>5% to 95%, non-condensing</td>
<td>5% to 95%, non-condensing</td>
</tr>
</tbody>
</table>