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Using the Channel Menu

To access the Channel menu, press the SMART HUB button on your remote. After Smart Hub appears, use the arrow buttons on your remote to select Channel, and then press the ENTER button.

Schedule Manager

SMART HUB → Schedule Manager → ENTER

Press the SMART HUB button on your remote, and then select Schedule Manager to access the Timer Viewing function. Timer Viewing lets you display the channel you want at the time of your choice.
**Using the Timer Viewing**

You can set the TV to display a desired channel automatically on a day and at a time of your choice.

You must set the current time first using the **Time → Clock** function in the **System** menu to use this function.

To use **Timer Viewing**, follow these steps:

1. Press the **ENTER** button to add a scheduled viewing.
2. Press the **← / → / ↑ / ↓** buttons to set **Antenna, Channel, Repeat, and Start Time**.
- **Antenna**: Select *Air* or *Cable*.
- **Channel**: Select the desired channel.
  
  🔄 You can only select memorized channels.
- **Repeat**: Select *Once*, *Manual*, *Sat~Sun*, *Mon~Fri* or *Everyday*. If you select *Manual*, you can set the day you want.

  🔄 The ✔️ mark indicates a day you selected.

  **Date**: You can set a desired date.

  🔄 Date is available only when you select *Once* in *Repeat*. 
• **Start Time**: You can set the start time you want.
  
  🌠 On the **Information** screen, you can change or cancel a scheduled viewing.

• **Cancel Schedules**: Cancel a scheduled viewing.

• **Edit**: Change a scheduled viewing.

• **Return**: Return to the previous screen.
Channel List

The Channel List contains the channels your TV displays (Added Channels) when you press the CH LIST button on your remote. On the Channel List, you can view Added Channels, channel information, Favorites, and manage channels.

When you press the CH LIST button on the remote control, Channel List screen is displayed immediately.
• **Added Channels**: Show all added channels.

• **Favorites 1-5**: Show all favorite channels, in up to five groups. Each group has a separate screen.

  If you want to view the list of favorite channels, press the **CH LIST** button, and then press the ▶ (CH Mode) button to display Favorites 1-5. Press the ◀ button to return to the **Added Channels**.

  The TV displays **Favorites** only if you have added favorites using **Add to Favorites**.

**Using the colored and function buttons with the Channel List.**

• **Red (Antenna)**: Switches the mode and display between **Air** or **Cable**.

• **Yellow (Program View / Channel View)**: For digital channels, switches the display between **Program View** and **Channel View**. When you select a digital channel in **Channel View**, press once to display a list of programs on that channel. Press again to re-display the **Channel List**.
- **◂ / ▶ (CH Mode):** Toggles between the **Favorites** list (if you have added favorites using **Add to Favorites**) and the **Added Channels**.
- **◂ (Watch):** Press to watch the channel you selected.
- **◇ (Page):** Scrolls the **Channel List** to the next or previous page.

**Channel Status Display Icons**

<table>
<thead>
<tr>
<th>Icon</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>📖</td>
<td>An analog channel.</td>
</tr>
<tr>
<td>⏰</td>
<td>A reserved program.</td>
</tr>
</tbody>
</table>
How to use Timer Viewing in Channel List (digital channels only)

You can use Timer Viewing in the Channel List to schedule a digital channel program for viewing. The TV will turn on and display the digital channel program when the program begins.

To schedule a digital program, follow these steps:

1. Press the CH LIST button, then select a desired digital channel.
2. Press the (Program View) button.
3. Press the ▲ or ▼ buttons to select the desired program, and then press the INFO button.

4. Press the ◀ or ▶ buttons to select **Timer Viewing**, and then press the ENTER button.

5. Press RETURN twice to exit.

   ☉ If you want to cancel **Timer Viewing**, follow Steps 1 through 3, and then select **Cancel Schedules**.
Channel

SMART HUB → Channel → ENTER

Using the Channel function, you can add channels, delete Added channels, set Favorite channels, use the program guide for digital broadcasts and change between the All Channels and Added Ch. screen. You can also change the antenna or channel settings by selecting the icons in the top right corner of the screen.

- The displayed image may differ depending on the model.
• **Antenna**: Toggle between **Air** or **Cable**. To access the Antenna function, use the arrow buttons to move the cursor to the Antenna icon on the top right corner of the screen.

• **Edit Mode**: Add channels to the **Favorites** list and delete channels from the **Channel List**.

   - To change between **All Channels** and **Added Ch.**, select **All Channels** or **Added Ch.** on the screen, and then press the **ENTER** button.
• **Edit Mode**: Setting channels you watch frequently as favorites.

1. Select the **Edit Mode** icon on the upper right of your screen, and then press the **ENTER** button.

2. Press the arrow buttons to select a channel as a favorite, and then press **ENTER**. A check appears to the left of the channel.

   - You can select more than one channel.
   - Pressing **ENTER** again deselects the channel.

3. Select **Edit Favorites** at the bottom of your screen, and then press **ENTER** button. The **Edit Favorites** pop-up appears.
4. Highlight a group on the Favorites list, and then press \textbf{ENTER}. 

ongodb The \textbf{Edit Favorites} screen has five groups (Favorites 1, Favorites 2, etc.). You can add a favorite channel to any one of the groups. Select a group using the up and down arrows on your remote.

5. Select \textbf{OK}, press \textbf{ENTER}, and then press \textbf{ENTER} again.

- Using \textbf{Edit Mode} to Delete a Channel from the \textbf{Channel}

1. Select the \textbf{Edit Mode} icon on the upper right of your screen, and then press the \textbf{ENTER} button.
2. Press the ◀ / ▶ / ▲ / ▼ buttons to select a channel, and then press ENTER ◀. A ✓ mark appears to the left of the channel.

- You can select more than one channel.
- Pressing ENTER ◀ again deselects the channel.

3. Select Delete at the bottom of your screen, and then press ENTER ◀. A pop-up appears asking if you want to delete the item.

4. Select OK, press ENTER ◀, and then press ENTER ◀ again. The channel is deleted from the Channel.
Using the **TOOLS** button with **Channel**

To use the **TOOLS** button functions, highlight a channel in the **Added Channel** list or **All Channels** list, and then press the **TOOLS** button.

- **Add / Delete**: Add a channel or delete a channel from the **Added Channel** list. When you use the Channel button on your remote to change channels, your TV only displays the channels on the **Added Channel** list.

To **Add** a channel using the **TOOLS** button in **Channel**, follow these steps:

1. Use the arrow buttons to select **All Channels**, and then press **ENTER**.

2. **All Channels** will be at the very top or bottom of the screen.

3. On the **All Channels** screen, select a greyed out channel.

4. Press the **TOOLS** button.

5. Select **Add** on the **TOOLS** menu, press **ENTER**, and then press **ENTER** again.
To **Delete** a channel using the **TOOLS** button in **Channel**, follow these steps:

1. Use the arrow buttons to select **Added Channels**, and then press **ENTER**.

   ![Added Channels will be at the very top or bottom of the screen.](image)

2. On the **Added Channels** screen, select a greyed out channel.

3. Press the **TOOLS** button.

4. Select **Delete** on the **TOOLS** menu, press **ENTER** again, and then press **ENTER** again.
NOTE

- Your TV lists all available channels, both added and deleted, on the All Channels menu.

- A gray-colored channel indicates the channel has been deleted.

- Add only appears if you have selected a deleted channel on the All Channel list.

- Delete only appears if you have selected an Added channel on the Added Ch. or All Channels list.

- You can also delete a channel on the All Channels list. Added channels are bright. Deleted channels are dim. To delete an Added channel on the All Channels list, select a bright channel, press the TOOLS button, select Delete, press ENTER, then press ENTER again.
• **Edit Favorites**: Setting channels you watch frequently as favorites.

To set channels as favorites, follow these steps:

1. Highlight a channel in the **Channel List** or **All Channels list**, and then press the **TOOLS** button.

2. Select **Edit Favorites** in the **TOOLS** menu, and then press the **ENTER** button.

3. Highlight a group on the **Edit Favorites** screen (Favorite 1, Favorite 2, etc.), and then press the **ENTER** button.

   📅 The **Edit Favorites** screen has five groups. You can add a favorite channel to any one of the groups. Select a group using the up and down arrows on your remote.

4. Select **OK**, and then press the **ENTER** button. The channel is made a favorite and is assigned to the favorite group you selected.

   📅 The TV displays the “⭐” symbol next to the channel, indicating it is a favorite.
• **Edit Favorites**: Removing a channel from list of favorites using the TOOLS button.

To remove a channel from the list of favorites, follow these steps:

1. Highlight a favorite channel in the **Channel List** or **All Channels** list, and then press the **TOOLS** button.

2. Select **Edit Favorites** in the **TOOLS** menu, and then press the **ENTER** button. The **Edit Favorites** screen appears.

3. The group this favorite is assigned to has a green square in front of it. Highlight that group on the **Edit Favorites** screen, press the **ENTER** button, and then press the **ENTER** button again.

4. Select **OK**, press the **ENTER** button, and then press the **ENTER** button again. The channel is removed from the list of favorites.
• **Channel Name Edit** (Appears only if you have selected an analog channel.): Assign a name of up to five characters to a channel. For example, Hist, Food, Golf, etc. This makes it easier to find and select the channel.

• **Upcoming Program** (Appears only if you have selected a digital channel.): View details on the program being aired on the selected digital channel.

### Channel Status Display Icons

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<thead>
<tr>
<th>Icon</th>
<th>Operations</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>An analog channel.</td>
</tr>
<tr>
<td>✔</td>
<td>A selected channel.</td>
</tr>
<tr>
<td>★</td>
<td>A favorite channel.</td>
</tr>
</tbody>
</table>
Using the Favorite Channels

Favorites

SMART HUB → Favorites → ENTER

View all of your favorite channels.

Your favorite channels are organized in up to five groups (Favorites 1-5). If you want to move from one favorite group to another, follow these steps:

1. Move the cursor to the group name displayed on the top of the screen, and then press the ENTER button. A list of groups appears.

2. Use the up or down arrow key to select a group, and then press the ENTER button. The group you select appears on the screen.

- The displayed image may differ depending on the model.
Functions on the Favorites Screen

To access the functions listed below, use the arrow buttons to move the cursor to the icon of your choice on the top right corner of the screen, and then press ENTER.

- **View Mode**: Toggles between the Text view and Thumbnail view of your favorite channels. Thumbnail view displays a picture of the program currently on.

- **Antenna**: Toggles between *Air* and *Cable*.

- **Sorting**: Toggles between sorting favorites by *Category* and sorting by *Title*.

- **Edit Mode**: Delete channels from the *Favorites* list. For instructions, see the next page.
To use View Mode, Antenna, or Sorting, select the appropriate icon as described on the previous page, and then press ENTER. Use the left or right arrow button to make your selection, and then press ENTER.

Using Edit Mode to Delete a Favorite

1. Select the Edit Mode icon on the upper right of your screen, and then press the ENTER button.

2. Press the / / / / buttons to select a channel, and then press ENTER. A mark appears to the left of the channel.
   - You can select more than one channel.
   - Press ENTER again to deselect the channel.

3. Select Delete at the bottom of your screen, and then press ENTER. A pop-up appears asking if you want to delete the item.
4. Select **OK**, press **ENTER**, and then press **ENTER** again. The channel is deleted from **Favorites**.

If you have assigned a channel to more than one favorite group (say **Favorites 1** and **Favorites 2**), you must repeat this process in both groups to remove a channel entirely from your **Favorites**.
Memorizing Channels

MENU → Channel → ENTER

Antenna (Air / Cable)

Your TV memorizes channels and adds the memorized channels to the Channel List. Before your TV can memorize channels, you must specify the signal source, either Air or Cable. If you select cable, when you start Auto Program, you must also specify the cable system type, STD, HRC, or IRC. If you don’t know your cable system type, contact your local cable company for the information. Most cable companies use STD.
To select Air or Cable, follow these steps:

1. Push MENU ➕ Channel ➔ ENTER ➔ on your remote.
2. Select Antenna, and then press ENTER ➔.
3. Select the source of your TV signal, Air or Cable, and then press the RETURN button.
Auto Program

Scans for channels automatically and stores them in the TV’s memory.

To start Auto Program, follow these steps:

1. Push MENU → Channel → ENTER on your remote.
2. Select Auto Program, and then press ENTER.
3. Select Air or Cable or both by highlighting and then pressing ENTER.
   🔄 If you selected Air or Cable or both on the Antenna screen, your choice will already be selected.
4. Select Next, and then press ENTER.
5. If you selected **Cable**, the Cable System screen appears. Select **Digital**, and then press **ENTER**.

If you selected **Antenna** only, **Auto Program** starts.

6. Select **STD, HRC, or IRC**, and then press **ENTER**.

7. Repeat for Analog.

8. Select **Next**, and then press **ENTER**. **Auto Program** starts.

After all the available channels are stored, **Auto Program** removes scrambled channels. When done, the **Auto Program** menu then reappears. This process can take up to 30 minutes.
Other Features

- MENU → Channel → ENTER

Clear Scrambled Channel

This function filters out scrambled channels after Auto Program is completed. This process may take up to 30 minutes.

How to Stop the Clear Scrambled Channels function

1. Press the ENTER button to select Stop.
2. Press the button to select Yes.
3. Press the ENTER button.

This function is only available in Cable mode.
**Fine Tune**

(analog channels only)

If the reception is clear, you do not have to fine tune the channel, as this is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually. Scroll to the left or right until the image is clear.

- Settings are applied to the channel you’re currently watching.
- Fine tuned channels that have been saved are marked with an asterisk “*” on the right-hand side of the channel number in the channel banner.
- To reset the fine-tuning, select **Reset**.
Changing the Preset Picture Mode

MENU → Picture → Picture Mode → ENTER

Picture modes apply preset adjustments to the picture. Select a mode using the up and down arrow keys, and then press the ENTER button.

In PC mode, you can only select Entertain and Standard.

- **Dynamic**: Suitable for a bright room.
- **Standard**: Suitable for a normal environment.
- **Natural**: Suitable for reducing eye strain.
- **Movie**: Suitable for watching movies in a dark room.
- **Entertain** (In PC mode only): Suitable for watching movies and games.
Adjusting Picture Settings

MENU → Picture → ENTER

Backlight / Contrast / Brightness / Sharpness / Color / Tint (G/R)

Your television has several options for adjusting picture quality. Select an option using the up and down arrow keys, and then press ENTER. Use the arrow keys to adjust the option value or select an option setting. When done, press ENTER.
When you make changes to **Backlight, Contrast, Brightness, Sharpness, Color** or **Tint (G/R)**, the OSD will be adjusted accordingly.

In **PC** mode, you can only make changes to **Backlight, Contrast, Brightness**, and **Sharpness**.

You can adjust and store Settings for each external device connected to the TV.

Lowering picture brightness reduces power consumption.
Changing the Picture Size

MENU → Picture → Screen Adjustment → ENTER

Screen Adjustment

Screen Adjustment provides various picture size and aspect ratio options. Select an option using the up and down arrow keys, and then press ENTER. Use the arrow keys to select an option in the sub-menu, and then press ENTER.

- **Picture Size**: If you have a cable box or satellite receiver, it may have its own set of screen sizes as well. However, we highly recommend you use your TV’s 16:9 mode most of the time.

  - If you have set Double (∥, ‖) mode in PIP (Picture-in-Picture), you cannot adjust the Picture Size.

  **16:9**: Sets the picture to 16:9 wide mode.
**Zoom1**: Use for moderate magnification. Cuts off the top and sides.

**Zoom2**: Use for a stronger magnification.

**Wide Fit**: Enlarges the aspect ratio of the picture so it fits the entire screen.

忑 Available with HD 1080i / 720p signals in 16:9 mode.

**4:3**: Sets the picture to basic (4:3) mode.

鬯 Do not set your TV to 4:3 format for a long time. The borders displayed on the left and right, or top and bottom of the screen may cause image retention (screen burn) which is not covered by the warranty.
**Screen Fit:** When your TV inputs HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) signals, displays the full image without any cut-off.

**Smart View 1:** Reduces the 16:9 picture by 50%.

**Smart View 2:** Reduces the 16:9 picture by 25%.

- **Smart View 1** is enabled only in HDMI mode.
- **Smart View 2** is enabled only in HDMI or DTV mode.

- The picture size can vary depending on the input resolution when you play content from **Videos** in **Smart Hub**.

- **Position:** Adjusts the picture position. **Position** is only available if **Picture size** is set to **Zoom1, Zoom2, Wide Fit**, or **Screen fit**.
To use the **Position** function after selecting **Zoom1**, **Zoom2** or **Wide Fit**, follow these steps:

- When Double ( forbid ) mode has been set in PIP (Picture-in-Picture), the **Picture Size** cannot be set.

1. Press the ▼ button to select **Position**.
2. Press the ENTER button.
3. Press the ▲ or ▼ button to move the picture up or down.
4. Press the ENTER button.
5. Select **Close** by pressing the ▼ and ▶ buttons sequentially. To reset the picture position, press Reset.
To use the **Position** function after selecting **Screen Fit** in HDMI (1080i/1080p) or Component (1080i/1080p), follow these steps:

1. Press the ▼ button to select **Position**.
2. Press the **ENTER** button.
3. Press the ▲, ▼, ◀ or ▶ button to move the picture.
4. Press the **ENTER** button.
5. Select **Close** by pressing the ▼ and ▶ buttons sequentially.

If you want to reset the picture to its original position, select **Reset** in the **Position** screen. The picture will be set to its default position.
- HD (High Definition): 16:9 - 1080i/1080p (1920x1080), 720p (1280x720)
- You can adjust and store settings for each external device you have connected to an input on the TV.
- Picture Sizes available by Input Source:

<table>
<thead>
<tr>
<th>Input Source</th>
<th>Picture Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATV, AV, Component (480i, 480p)</td>
<td>16:9, Zoom1, Zoom2, 4:3</td>
</tr>
<tr>
<td>HDMI (720p, 1080i, 1080p)</td>
<td>Smart View 1</td>
</tr>
<tr>
<td>DTV(1080i), HDMI (720p, 1080i, 1080p)</td>
<td>Smart View 2</td>
</tr>
<tr>
<td>DTV(1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)</td>
<td>16:9, 4:3, Wide Fit, Screen Fit</td>
</tr>
<tr>
<td>PC</td>
<td>16:9, 4:3</td>
</tr>
</tbody>
</table>
Changing the Picture Options

Advanced Settings

MENU → Picture → Advanced Settings → ENTER

All Advanced Settings are available in the Standard and Movie modes. In PC mode, you can only make changes to Gamma and White Balance.

To use, select an option using the up and down arrow keys, and then press ENTER. Use the arrow keys to change the value or setting, and then press ENTER.

- The displayed image may differ depending on the model.
• **Black Tone (Off / Dark / Darker / Darkest):** Select the black level to adjust the screen depth.

• **Dynamic Contrast (Off / Low / Medium / High):** Adjusts the screen contrast.

• **Shadow Detail (-2~+2):** Increases the brightness of dark images.

• **Gamma:** Adjusts the primary color intensity.

• **Expert Pattern (Off / Pattern1 / Pattern2):** Use the **Expert Pattern** function to calibrate the picture. If the OSD menu disappears or a menu other than the Picture menu is opened, the TV saves the calibration and the **Expert Pattern** window disappears.
**Off**: Turns the **Expert Pattern** function off.

**Pattern1**: This test screen demonstrates the effect of the display settings on shades of grey and black.

**Pattern2**: This test screen demonstrates the effect of the display settings on colors.

☞ After selecting **Pattern1** or **Pattern2**, you can adjust any of the advanced settings for the desired effect.

☞ While the **Expert Pattern** is running, the TV does not output sound.

☞ Only enabled in DTV, Component, and HDMI modes.

- **RGB Only Mode (Off / Red / Green / Blue)**: Displays the **Red**, **Green** and **Blue** colors so you can make fine adjustments to hue and saturation.
• **Color Space (Auto / Native / Custom):** Adjusts the range and variety of colors (the color space) available to create images.

  To adjust **Color, Red, Green, Blue** and **Reset**, set **Color Space** to **Custom**.

• **White Balance:** Adjusts the color temperature for a more natural picture.

  **R-Offset / G-Offset / B-Offset:** Adjusts each color’s (red, green, blue) darkness.

  **R-Gain / G-Gain / B-Gain:** Adjusts each color’s (red, green, blue) brightness.

  **Reset:** Resets the White Balance to its default settings.
• **10p White Balance (Off / On):** Controls the white balance in 10 point intervals by adjusting the red, green, and blue brightness.

  - Available for all inputs when you set the picture mode to **Movie**.
  - Some external devices may not support this function.

**Interval:** Select interval to adjust.

**Red:** Adjust the red level.

**Green:** Adjust the green level.

**Blue:** Adjust the blue level.

**Reset:** Resets the **10p White Balance** to its default settings.
- **Flesh Tone**: Emphasizes pink “Flesh Tone.”
- **Edge Enhancement (Off / On)**: Emphasizes object boundaries.
- **Motion Lighting (Off / On)**: Reduces power consumption by reducing screen brightness when the picture on the screen is in motion.

⚠️ **3D** is not supported.

⚠️ When you change the **Contrast**, the TV sets **Motion Lightning** to **Off**.
• **xvYCC (Off / On):** Setting xvYCC on increases picture detail and enlarges the color space when you are watching movies input from an external device (e.g. BD/DVD player) connected to the TV’s HDMI or Component IN jacks.

  🔄 Available only when you set the picture mode to Movie and the external input to HDMI or Component.

  🔄 Some external devices may not support this function.

• **LED Motion Plus (Off / On):** Removes blur and judder from scenes with a lot of fast movement to provide a clearer picture.
- Picture Options

- MENU → Picture → Picture Options → ENTER

Select an option using the up and down arrow keys, and then press ENTER. Use the arrow keys to change the setting, and then press ENTER.

- In PC mode, you can only make changes to **Color Tone**.

  - **Color Tone (Cool / Standard / Warm1 / Warm2)**
    - **Warm1** or **Warm2** will be deactivated when the picture mode is **Dynamic**.
    - You can adjust and store settings for each external device connected to an input on the TV.

- **The displayed image may differ depending on the model.**
• **Digital Noise Filter (Off / Low / Medium / High / Auto / Auto Visualization):**
  If the broadcast signal received by your TV is weak, you can activate the Digital Noise Filter feature to reduce any static and ghosting that may appear on the screen.

☐ When the signal is weak, try all the options until the TV displays the best picture.

**Auto Visualization:** When changing analog channels, displays signal strength.

☐ Only available for analog channels.

☐ When the bar is green, you are receiving the best possible signal.

• **MPEG Noise Filter (Off / Low / Medium / High / Auto):** Reduces MPEG noise to provide improved picture quality.
• **HDMI Black Level (Normal / Low):** Lets you adjust the screen depth by selecting a black level.
  - Available only in HDMI mode.

• **Film Mode (Off / Auto1 / Auto2):** Sets the TV so that it senses and then processes film signals from all sources automatically and adjusts the picture for optimum quality. The **Cinema Smooth** function is only active when the TV inputs an HDMI 24Hz signal.
  - Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

• **Auto Motion Plus (Off / Clear / Standard / Smooth / Custom / Demo):** Removes blur and judder from scenes with large amounts of rapid movement to provide a clearer picture.
The info screen on your TV displays the resolution and frequency of the incoming video signal (60 Hz). This displayed frequency is not the frequency of the picture the TV is displaying when you have Auto Motion Plus on.

If noise occurs on the screen, please set Auto Motion Plus to Off. If you set Auto Motion Plus to Custom, you can control Blur Reduction and Judder Reduction manually and use Reset to reset both to their default settings.

If you set Auto Motion Plus to Demo, you can compare the difference between a picture with Auto Motion Plus on and Auto Motion Plus off.
Blur Reduction: Adjusts the blur reduction level for signals input from all video sources.

Judder Reduction: Adjusts the judder reduction level for signals input from a video source through which you are playing a movie.

Reset: Reset the custom settings.
Reset Picture (Yes / No)

 Resets your current picture mode to its default settings.
Using the TV with Your PC

Set the input source to PC.

Auto Adjustment

MENU → Picture → Auto Adjustment → ENTER

Automatically adjusts the picture’s frequency, position, and fine tune settings in the PC mode.

Available in PC mode only.

Not available if you connect your PC with an HDMI to DVI cable.
PC Screen Adjustment

MENU → Picture → Screen Adjustment → PC Screen Adjustment → ENTER

Available in PC mode only.

- **Coarse / Fine**: Removes or reduces picture noise. If the noise is not removed by Fine-tuning alone, use the **Coarse** function to adjust the frequency as best as possible (**Coarse**) and Fine-tune again. After the noise has been reduced, re-adjust the picture so that it is aligned with the center of screen.

- **Position**: To adjust the PC’s screen position if it is not centered or does not fit the TV screen. Press the ▲ or ▼ button to adjust the Vertical Position. Press the ◀ or ▶ button to adjust the Horizontal Position.

- **Image Reset**: Resets the image to the default settings.
Using Your TV as a Computer (PC) Display

Entering the Video Settings (Based on Windows XP)

For your TV to work properly as a computer display, you must enter the correct video settings.

Depending on your version of Windows and your video card, the procedure on your PC will probably differ slightly from the procedure presented here. However, the same basic information will apply in most cases. (If not, contact your computer manufacturer or Samsung Dealer.)
1. Click “Control Panel” on the Windows start menu.


3. Click “Display”. Another display dialog box appears.

4. Click the “Settings” tab on the display dialog-box.
   - On the Settings tab, set the correct resolution (screen size). The optimal resolution for this TV is 1920 x 1080.
   - If a vertical-frequency option exists on your display settings dialog box, select “60” or “60 Hz”. Otherwise, just click “OK” and exit the dialog box.
Changing the Preset Sound Modes

MENU → Sound → Sound Mode → ENTER.

Sound Mode

Use the up and down arrow keys to select an option, and then press ENTER.

- **Standard**: Selects the normal sound mode.
- **Music**: Emphasizes music over voices.
- **Movie**: Provides the best sound for movies.
- **Clear Voice**: Emphasizes voices over other sounds.
- **Amplify**: Increase the intensity of high-frequency sound to allow a better listening experience for the hearing impaired.

If **Speaker Select** is set to **External Speaker, Sound Mode** is disabled.
Adjusting Sound Settings

MENU → Sound → Sound Effect → ENTER

■ Sound Effect

If Speaker Select is set to External Speaker, Sound Effect is disabled.

Available only when Sound Mode is set to Standard.

- **SRS TruSurround HD (Off / On)**
  
  This function provides a virtual 5.1 channel surround sound experience through a pair of speakers using HRTF (Head Related Transfer Function) technology.

- **SRS TruDialog (Off / On)**
  
  This function allows you to increase the intensity of a voice over background music or sound effects so that dialog can be heard more clearly.
• **Equalizer**

The Equalizer displays a series of sliders. Use the up and down arrow keys to select a slider. Use the left and right arrow keys to change the slider’s value. To **Reset** the **Equalizer**, select **Reset** and press **ENTER** 🆕, then select **Yes** and press **ENTER** 🅰️. To exit, select **Close**, and then press **ENTER** 🅰️.

Equalizer is available in the standard sound mode only.

- **Balance L/R**: Adjusts the balance between the right and left speaker.
- **100Hz / 300Hz / 1kHz / 3kHz / 10kHz** (Bandwidth Adjustment): Adjusts the volume level of specific bandwidth frequencies.
- **Reset**: Resets the equalizer to its default settings.
3D audio technology provides an immersive sound effect corresponding to the immersive perspective effect of 3D video through audio depth control in perspective.

🌿 Available only when you are watching 3D images.
Broadcast Audio Options

- **Preferred Language**

  (digital channels only)

  Use the up and down arrow keys to select a language, and then press **ENTER**.

  Digital-TV broadcasts can simultaneously transmit many audio tracks (for example, simultaneous translations of the program into foreign languages).

  You can only select a language from among the ones being broadcasted.
● **Multi-Track Sound (MTS)**

(analog channels only)

Select an option using the up and down arrow keys, and the press **ENTER**.

**Mono**: Choose for channels that are broadcasting in mono or if you are having difficulty receiving a stereo signal.

**Stereo**: Choose for channels that are broadcasting in stereo.

**SAP**: Choose to listen to the Separate Audio Program, which is usually a foreign-language translation.

 зависимости от программы, которую передают в эфир, вы можете прослушивать Mono, Stereo, или SAP.
**SPDIF Output**

SPDIF (Sony Philips Digital Interface) provides digital audio output to speakers and various digital devices such as A/V Receivers and Home Theaters which reduces interference and distortion.

- **Audio Format**: You can select the Digital Audio output (SPDIF) format. The available Digital Audio output (SPDIF) format may differ depending on the input source.

- **Audio Delay**: Lets you correct timing mismatches between the audio track and the video when you are watching the TV and listening to digital audio output from the TV through an external device such as an AV receiver. When you select Audio Delay, a slider appears. Use the left and right arrow buttons to adjust the slider. Press **ENTER** when done (0ms ~ 250ms).
Speaker Settings

- Speaker Select (External Speaker / TV Speaker)

If you are listening to the sound track of a broadcast or movie through an external receiver, you may hear a sound echo caused by the difference in decoding speed between the TV’s speakers and the speakers attached to your audio receiver. If this occurs, set the TV to **External Speaker**.
• When you set **Speaker Select** to **External Speaker**, the TV’s speakers are turned off. You will hear sound through the external speakers only. When you set **Speaker Select** to **TV Speaker** both the TV’s speakers and the external speakers are on. You will hear sound through both.

• When **Speaker Select** is set to **External Speaker**, the **-VOL+** and **MUTE** buttons will not operate and the sound settings will be limited.

• If there is no video signal, both the TV’s speakers and the external speakers will be mute.
• **Auto Volume (Off / Normal / Night)**

*Normal* equalizes the volume level on each channel, so that when you change channels, the volume level is the same.

*Night* equalizes and decrease the volume level on each channel, so each channel is quieter. *Night* is useful at night, when you may want to keep the volume low.

✅ To use the volume control of a connected source device, set **Auto Volume** to **Off**. A change to the volume control of the connected source device may not be applied if **Auto Volume** is set to **Normal** or **Night**.
Sound Reset (OK / Cancel)

Reset all sound settings to the factory defaults. Select Reset, press ENTER, select OK in the pop-up, and then press ENTER again.
Wired Network Connection

Connecting to a Wired Network

There are three ways to attach your TV to your LAN using cable:

- You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an external modem using a LAN cable. See the diagram below.

![Diagram of connecting TV to a Wired Network](image)
You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an IP Sharer which is connected to an external modem. Use LAN cable for the connection. See the diagram below.

![Diagram of TV, Modem, and IP Sharer connection]
Depending on how your network is configured, you may be able to attach your TV to your LAN by connecting the LAN port on the back of your TV directly to a network wall outlet using a LAN cable. See the diagram below. Note that the wall outlet is attached to a modem or router elsewhere in your house.
• If you have a Dynamic Network, you should use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your TV needs to access the Internet so you do not have to enter them manually. Most home networks are Dynamic Networks.

Some networks require a Static IP address. If your network requires a Static IP address, you must enter the IP address, subnet mask, gateway, and DNS values manually on your TV’s Cable Setup Screen when you set up the network connection. To get the IP address, subnet mask, gateway, and DNS values, contact your Internet Service Provider (ISP). If you have a Windows computer, you can also get these values through your computer.

☑️ You can use ADSL modems that support DHCP if your network requires a Static IP address. ADSL modems that support DHCP also let you use Static IP addresses.
Network Settings

MENU → Network → Network Settings → ENTER

Set the network connection to use various Internet services such as Smart Hub, AllShare™ and perform software upgrades.

Network Status

MENU → Network → Network Status → ENTER

You can check the current network and Internet status.

AllShare Settings

MENU → Network → AllShare Settings → ENTER

Selects whether to use the call arrivals text message contents and schedules set on the network. For details on set up options, refer to the “AllShare™” instructions.
Automatic Network Setup

Use the Automatic **Network Settings** when connecting your TV to a network that supports DHCP. To set up your TV’s cable network connection automatically, follow these steps:

**How to set up automatically**

1. Go to the **Network Settings** screen. (MENU → Network → Network Settings → ENTER ➔)

2. Select **Wired**, press ENTER ➔, and then press ENTER ➔ again.

3. The network test screen appears and verifies the network connection. When the connection has been verified, the “Internet connection successful.” message appears.

- The displayed image may differ depending on the model.
If the connection process fails, check the LAN port connection.

If the automatic process cannot find the network connection values or if you want to set the connection manually, go to the next section, Manual Network Setup.
Manual Network Setup

Use the Manual Network Setup when connecting your TV to a network that requires a Static IP address.

Getting the Network Connection Values

To view the Network connection values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu that appears, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support Tab, click the Details button. The Network connection values are displayed.
How to set up manually

To set up your TV’s cable network connection manually, follow these steps:

1. Go to the Network Settings screen.
   (MENU → Network → Network Settings → ENTER)

2. Select Wired, press ENTER, and then press ENTER again. The network test screen appears and the verification process starts.

4. Select the field at the top, press ENTER, and then set IP Mode to Manual.

5. Press the ▼ button on your remote to go to the IP Address entry field, and then press ENTER.

6. Enter the first portion of the IP Address (for example, 105) into the first entry field using the number keys on your remote. Press the right arrow button to go to the next field.

7. Enter the next portion of the IP Address. Press the right arrow button to go to the next field.

8. Repeat the entry process for each field in the IP Address.

   If you make a mistake when entering a number, re-enter the number to correct it. You can also press the up or down arrow button to change the number one unit at a time.
9. When done entering the **IP Address**, press **ENTER**.

10. Press the down arrow key to go to the **Subnet Mask** fields, and then press **ENTER**.

11. Repeat the same entry process for **Subnet Mask**, **Gateway**, and **DNS Server**.

12. When done, select **OK** at the bottom of the page, and then press **ENTER**. The network test screen appears and the verification process starts. When the connection has been verified, the “Internet connection successful.” message appears.
Wireless Network Connection

Connecting to a Wireless Network  For LED 6000~6450 Series

To connect your TV to your network wireless, you need a wireless router or modem and a Samsung Wireless LAN adapter (WIS09ABGN, WIS09ABGN2 or WIS10ABGN - sold separately), which you connect to your TV’s back or side panel USB port. See the illustration below.

For LED 6050 Series: One Samsung Wireless LAN adapter is included with your TV.
Samsung’s Wireless LAN adapter is sold separately and is offered by selected retailers, Ecommerce sites and Samsungparts.com. Samsung’s Wireless LAN adapter supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a IEEE 802.11b/g connection, the video may not play smoothly.

💡 NOTE

- You must use the “Samsung Wireless LAN adapter” (WIS09ABGN, WIS09ABGN2 or WIS10ABGN) to use a wireless network.
- The Samsung Wireless LAN Adapter and the USB extension Cable are sold separately and are offered by select retailers, Ecommerce sites and Samsungparts.com.
• To use a wireless network, your TV must be connected to a wireless IP sharer (either a router or a modem). If the wireless IP sharer supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.

• Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.

• Your TV supports only the following wireless network security protocols:
  – Authentication Mode: WEP, WPAPSK, WPA2PSK
  – Encryption Type: WEP, TKIP, AES.
• If you select the Pure High-throughput (Greenfield) 802.11n mode and the Encryption type is set to WEP, TKIP or TKIP AES (WPS2Mixed) on your AP or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.

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

• If your router, modem, or device is not certified, it may not connect to the TV via the “Samsung Wireless LAN adapter.”
• Ensure the TV is turned on before you connect the Samsung Wireless LAN adapter.

• Connection Methods: You can set up the wireless network connection in five ways:
  – Auto Setup (Using the Auto Network Search function)
  – Manual Setup
  – WPS (PBC)
  – One Foot Connection
  – Plug & Access

• The Samsung Wireless LAN adapter may not be recognized when using a connection via a USB hub or via a USB extension cable other than the cable supplied.
Notice

The picture may appear corrupted or have static for some channels when the TV is connected to the Samsung Wireless LAN adapter. If this occurs, establish a connection using one of the following methods or connect the Samsung Wireless LAN adapter using a USB cable in a place that is not affected by radio interference.

- **Method 1: Connecting the Samsung Wireless LAN adapter using the USB right angle adapter.**

To connect the Samsung Wireless LAN adapter using the USB right angle adapter, follow these steps:

1. Connect the USB right angle adapter to the Samsung Wireless LAN adapter.
2. Connect the other end of the right angle adapter to the **USB 1 (HDD)** port.

*The design of the right angle adapter and the location of the USB port may differ depending on the model.*
Method 2: Connecting the Samsung Wireless LAN adapter via an extension cable.

To connect the Samsung Wireless LAN adapter using the extension cable, follow these steps:

1. Connect the extension cable to the **USB 1 (HDD)** port.
2. Connect the extension cable and Samsung Wireless LAN adapter.
3. Attach the Samsung Wireless LAN adapter to the back of the TV near the top, using double-sided adhesive tape.
Connecting to a Wireless Network for LED 6500 Series and above

You can connect your TV to your LAN through a standard wireless router or modem.
This TV supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a IEEE 802.11b/g connection, the video may not play smoothly.

💡 NOTE

- To use a wireless network, your TV must be connected to a wireless IP sharer (either a router or a modem). If the wireless IP sharer supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.

- Select a channel for the wireless IP sharer that is not currently being used. If the channel set for the wireless IP sharer is currently being used by another device nearby, this will result in interference and communication failure.
- Your TV supports only the following wireless network security protocols:
  - Authentication Mode: WEP, WPAPSK, WPA2PSK
  - Encryption Type: WEP, TKIP, AES
- If you select the Pure High-throughput (Greenfield) 802.11n mode and the Encryption type is set to WEP, TKIP or TKIPAES (WPS2Mixed) on your AP or wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.
- If your AP supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.
Connection Methods: You can setup the wireless network connection in five ways:

- Auto Setup (Using the Auto Network Search function)
- Manual Setup
- WPS (PBC)
- One Foot Connection
- Plug & Access
Automatic Network Setup

Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were asked to enter when you set up security for your wireless network. If you use this method of setting up the network connection, and have a Security Key for your wireless network, you will have to enter the Pass Phrase during the automatic or manual setup process.
How to set up automatically

1. Go to the **Network Settings** screen. 
   (MENU → Network → Network Settings → ENTER)

2. Select **Wireless (General)**, press ENTER, and then press ENTER again.

3. The **Network** function searches for available wireless networks. When done, it displays a list of the available networks.

4. In the list of networks, press the ↑ or ↓ button to select a network, and then press the ENTER button twice.

   ☑️ If the wireless router is set to Hidden (Invisible), you have to select **Add Network** and enter the correct **Network Name (SSID)** and **Security key** to establish the connection.

• The displayed image may differ depending on the model.
5. If the **Security Key** screen appears, go to step 6. If you select a wireless router that does not have security, go to step 8.

6. If the Enter wireless router has security, enter the Security key (**Security key** or **PIN**).

- When you enter the **Security key** (Security key or PIN), use ↑ / ↓ / ← / → buttons on your remote to select number/characters. Press the **ENTER** button to enter the characters.

- You can also enter numbers by pressing the number buttons on your remote.

7. When done, use the right arrow button to move the cursor to **NEXT**, and then press **ENTER**.
8. The network connection screen appears and the verification process starts. When the connection has been verified, the “Internet connection successful.” message appears.

- If the network does not accept the Security key (Security key or PIN), select Retry or select IP Settings to enter the settings manually.

- If you want to set up the connection manually, select IP Settings. Then, go to the next section, “How to set up manually”.
Manual Network Setup

Use the Manual Network Setup when connecting your TV to a network that requires a Static IP address or if the automatic connection process has failed.

Getting the Network Connection Values

To view the Network connection values on most Windows computers, follow these steps:

1. Right click the Network icon on the bottom right of the screen.
2. In the pop-up menu that appears, click Status.
3. On the dialog that appears, click the Support tab.
4. On the Support Tab, click the Details button. The Network connection values are displayed.
How to set up manually

To set up your TV’s cable network connection manually, follow these steps:

1. Go to the Network Settings screen.
   (MENU → Network → Network Settings → ENTER)

2. Select **Wireless (General)**, press the ENTER, then press ENTER again.

3. The Network function searches for available wireless networks. When done, it displays a list of the available networks.

   ![IP Settings](image)
   - The displayed image may differ depending on the model.
4. In the list of networks, press the ▲ or ▼ button to select a network, and then press the ENTER button twice.

If the Access Point (AP) is set to Hidden (Invisible), you have to select Add Network and enter the correct network Name (SSID) and Security key to establish the connection.

5. If the Enter Security key screen appears, go to step 6. If you selected an AP that does not have security, go to step 8.
6. Enter the **Security key** (**Security key** or **PIN**).

   - When you enter the **Security key** (**Security key** or **PIN**), use ▲ / ▼ / ◀ /▶ buttons on your remote to select numbers/characters. Press **ENTER** to enter the characters.

   - You can also enter numbers by pressing the number buttons on your remote.

   - You should be able to find the Pass Phrase on one of the set up screens you used to set up your router or modem.

7. When done, use the ▶ button to move the cursor to **NEXT**, and then press the **ENTER** button.
8. The network connection screen appears and the verification process starts. Press **ENTER** to cancel. Select **IP Setting** on the network connection screen. The **IP Settings** screen appears.

9. Select the field on the top, press **ENTER** , and then set **IP Mode** to **Manual**.

10. Press the **button on your remote to go to the IP Address entry field, and then press **ENTER** .

11. Enter the first portion of the **IP Address** (for example, 105) into the first entry field using the number keys on your remote. Press the **button to go to the next field.

12. Enter the next portion of the **IP Address**. Press the **button to go to the next field.
13. Repeat the entry process for each field in the **IP Address**.

   If you make a mistake when entering a number, re-enter the number to correct it. You can also press the ▲ or ▼ button to change the number one unit at a time.

14. When done entering the **IP Address**, press **ENTER**.

15. Press the ▼ button to go to the **Subnet Mask** fields, and then press **ENTER**.

16. Repeat the same entry process for **Subnet Mask**, **Gateway**, and **DNS Server**.

17. When done, select **OK** at the bottom of the page, and then press **ENTER**. The network connection screen appears and the verification process starts. When the connection has been verified, the “Internet connection successful.” message appears.
WPS(PBC) Network Setup

How to set up using WPS(PBC)

If your router has a WPS(PBC) button, follow these steps:

1. Go to Network Setting screen.
   (MENU → Network → Network Settings → ENTER).

2. Select WPS(PBC), press ENTER, and then press ENTER again.

3. Press the WPS(PBC) button on your router within 2 minutes. Your TV automatically acquires all the network setting values it needs and connects to your network.

4. The network connection screen appears, and network setup is done.
One Foot Connection Network Setup

The One Foot Connection function lets you connect your Samsung TV automatically to a Samsung wireless router. If your wireless router does not support One Foot Connection, you must connect using one of the other methods.

You can check for equipment that supports One Foot Connection on www.samsung.com.
How to set up using One Foot Connection

1. Turn on the Samsung wireless router and the TV.

2. Go to **Network Settings** screen.
   
   (MENU → Network → Network Settings → ENTER).


   - The displayed image may differ depending on the model.
4. Place the wireless router in parallel with the Samsung Wireless LAN adapter or your TV set (if you do not need to use the Adapter), and no farther away than 25cm (about 9 3/4 inches).

If One Foot Connection does not connect your TV to your Router, a pop-up window appears on the screen notifying you of the failure. If you want to try using One Foot Connection again, reset the wireless router, disconnect the Samsung Wireless LAN adapter and then try again from Step 1. You can also choose one of the other connection setup methods.

5. The network connection screen appears, and network setup is done.

6. Place the wireless router in a desired location.

If the wireless router’s settings change or you install a new wireless router, you must perform the One Foot Connection procedure again, beginning from Step 1.
Plug & Access Network Setup

The **Plug & Access** function lets you easily connect your Samsung TV to your Samsung wireless router by using a USB memory stick to transfer the setup information from the router to the TV. If your non-Samsung AP does not support **Plug & Access**, you must connect using one of the other methods.

💡 You can check for equipment that supports **Plug & Access** on [www.samsung.com](http://www.samsung.com).
How to set up using the Plug & Access function

1. Turn on the Samsung wireless router and your TV.
2. Insert a USB memory stick into the USB port in your Samsung wireless router. Check the router’s LED’s to make sure it is on (Blinking → on).
3. Take the USB memory stick out of the router, and then insert it into a USB port on your Samsung TV. The memory stick downloads the connection information.
4. Wait until the connection is automatically established.

💡 If Plug & Access does not connect your TV to your AP, a pop-up window appears on the screen notifying you of the failure. If you want to try using Plug & Access again, reset the AP, disconnect the Samsung Wireless LAN adapter and then try again from Step 1. You can also choose one of the other connection setup methods.
5. The network connection screen appears, and the network setup is done.

6. Place the wireless router in a desired location.

- If the wireless router’s settings change or you install a new wireless router, you must perform the **Plug & Access** procedure again, beginning from Step 1.
**Priority QOS**

**Samsung wireless routers are optimized to stream HD AV to Samsung DTVs.**
This Priority QOS function is unique to Samsung wireless routers. You can connect a Samsung wireless router to many devices, such as laptops, mobile phones, BD players etc. But, when you connect a Samsung TV to a Samsung wireless router, the Samsung wireless router gives the Samsung TV a priority connection. This ensures you get the highest quality streaming contents and the fastest throughput speed.

- Priority QOS makes your TV faster by giving it priority bandwidth. (Priority QOS is optional. You can turn it on and off.)
- Because your Samsung TV has a priority connection, you can enjoy HD content without buffering.

🔍 The connection speed may vary based on the network environment.
**Ad hoc Network Setup**

You can connect to a mobile device supporting Ad-hoc connections without a wireless router or wireless router through the “Samsung Wireless LAN adapter”. When connected to a mobile device, you can use files on the device or connect to the Internet using the AllShare or Multimedia function.

**How to set up using Ad hoc**

1. Go to **Network Settings** screen. (MENU → Network → Network Settings → ENTER).

2. Select **Wireless (General)**, and press ENTER, then press ENTER again.

3. Select **Ad hoc**. The message “**Ad hoc service supports a direct connection with Wi-Fi compatible devices like a cell phone or PC. The existing network system may have limited functionality. Do you want to change the network connection?**” is displayed.
4. Select **OK**, and press **ENTER**. The TV searches for the mobile device.

5. When the TV finish searching for mobile devices, input the generated **Network Name (SSID)** and **Security Key** into the device you want to connect.

   ☑️ If network does not operate normally, check the **Network Name (SSID)** and Security key again. An incorrect Security key may cause a malfunction.

   ☑️ If a device is connected once, it is displayed in the Network Setting list. When you connect to it again, you can find it in the List.
If Your TV Fails to Connect to the Internet

Your TV may not be able to connect to the Internet because your ISP has permanently registered the MAC address (a unique identifying number) of your PC or modem, which it then authenticates each time you connect to the Internet as a way of preventing unauthorized access. As your TV has a different MAC address, your ISP can not authenticate its MAC address, and your TV can not connect.

To resolve this problem, ask your ISP about the procedures required to connect devices other than a PC (such as your TV) to the Internet.

If your Internet service provider requires an ID or password to connect to the Internet, your TV may not be able to connect to the Internet. If this is the case, you must enter your ID or password when connecting to the Internet.

The internet connection may fail because of a firewall problem. If this is the case, contact your Internet service provider.

If you cannot connect to the Internet even after you have followed the procedures of your Internet service provider, please contact Samsung Electronics at 1-800-SAMSUNG.
Setting the Time

MENU → System → Time → ENTER

Time

The current time will appear every time you press the INFO button.

- Clock: Set the clock to use the various timer features of the TV.
  
  If you disconnect the power cord, you have to set the clock again.

- Clock Mode: Set the current time manually or automatically.
  
  Auto: Have the TV set the current time automatically using the time from a digital channel.

  You must have the cable or an antenna connected to the TV to set the time automatically.
Manual: Set the current time manually.

- Depending on the broadcast station and signal, the auto time set up may not be correct. In this case, set the time manually.

**Clock Set:** Set the **Date** and **Time**.

Select **Clock Set**. Select **Date** or **Time**, and then press ENTER. Use the number buttons to enter numbers or press the up and down arrow buttons. Use the left and right arrow buttons to move from one entry field to the next. Press ENTER when done. To exit **Clock Set**, select **Close**, and then press ENTER.

- Available only when **Clock Mode** is set to **Manual**.

- You can set the **Date** and **Time** directly by pressing the number buttons on the remote control.
- **Time Zone**: Select your time zone.
  - This function is only available when the **Clock Mode** is set to **Auto**.
- **DST (Off / On)**: Switches the DST (Daylight Saving Time) function on or off.
  - This function is only available when the **Clock Mode** is set to **Auto**.

### Using the Sleep Timer

- **MENU** → **System** → **Time** → **Sleep Timer** → **ENTER**

  - **Sleep Timer**
    - Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).
    - Use the up and down arrows to select a period of time, and then press **ENTER**. To cancel **Sleep Timer**, select **Off**.
Setting the On / Off Timer

- **MENU → System → Time → ENTER**

Set **On Timer** so that your TV turns on automatically at a time and on a day of your choosing.

- **On Timer**: You can set up three separate On Timer configurations. (**On Timer 1, On Timer 2, On Timer 3**)

- You must set the clock before you can use **On Timer**.

- The displayed image may differ depending on the model.
Setup: Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can choose the days you want On Timer to turn on your TV.

☑️ The ✔ mark indicates days you’ve selected.

**Time**: Set the hour, minute, am/pm. Use the number buttons or the up and down arrow keys to enter numbers. Use the left and right arrow buttons to change entry fields.

**Volume**: Set the desired volume level. Use the left and right arrow buttons to change the volume level.
**Source:** Select TV or USB. Select TV and the TV will display broadcast or cable TV programs when it turns on automatically. Select USB and the TV will play content from a USB device when the TV turns on automatically. (You can select USB only when a USB device is connected to the TV)

**Antenna** (when the **Source** is set to **TV**): Select **Air** or **Cable**.

**Channel** (when the **Source** is set to **TV**): Select the desired channel.

**Music / Photo** (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files you want played when the TV turns on automatically.
NOTE

- If there is no music file on the USB device or you don’t select a folder containing a music file, the Timer function does not operate correctly.
- If there is only one photo file in the USB, the Slide Show will not play.
- If a folder name is too long, the folder cannot be selected. Each USB you use is assigned its own folder. When using more than one of the same type of USB, make sure the folders assigned to each USB have different names.
- We recommend that you use a USB memory stick and a multi card reader when using On Timer. The On Timer function may not work with USB devices with a built-in battery, MP3 players, or PMPs made by some manufacturers because the TV can take too long to recognize these devices.
• **Off Timer 1 / Off Timer 2 / Off Timer 3:**
You can set up three separate Off Timer configurations. *(Off Timer 1, Off Timer 2, Off Timer 3)*

☐ You must set the clock before you can use **Off Timer**.

**Setup:** Select Off, Once, Everyday, Mon~Fri, Mon~Sat, Sat~Sun or Manual. If you select Manual, you can choose the days you want **Off Timer** to turn off your TV.

☐ The ✅ mark indicates days you’ve selected.

**Time:** Set the hour, minute, and am/pm. Use the number buttons or the up and down arrow keys to enter numbers. Use the left and right arrow buttons to change entry fields.

- The displayed image may differ depending on the model.
Blocking Programs

MENU → System → Security → ENTER

Security

When you access the Security functions for the first time, the PIN input screen appears. Enter a 4 digit PIN you will remember. The PIN screen closes and the Security Menu appears. Every time you access the Security functions, the PIN screen will appear and you must enter that PIN.

- **Program Rating Lock (Off / On):** When turned on, the Program Rating Lock feature can automatically block programs that you deem inappropriate for your children. You must enter a PIN (personal identification number) before you can set or change any of the Program Rating Lock restrictions.

- **Program Rating Lock** is not available in HDMI, Component or PC mode.
- The default PIN number for a new TV set is “0-0-0-0”.
**TV Rating**: You can block TV programs based on their ratings. This function allows you to control what your children can watch. TV Rating displays a grid with locks. The following categories are on the left side:

- **TV-Y**: Young children / **TV-Y7**: Children 7 and over / **TV-G**: General audience / **TV-PG**: Parental guidance / **TV-14**: Viewers 14 and over / **TV-MA**: Mature audience
The following categories are on top:

- **ALL**: Lock all TV ratings. / **FV**: Fantasy violence / **V**: Violence / **S**: Sexual situation / **L**: Adult Language / **D**: Sexually Suggestive Dialog

To block certain content, you select a lock, and press **ENTER** (That is, you “click it”.) For example, click the lock at the intersection of **V** and **TV-MA**, and you block all programs that are rated violent and for mature adults. The locks are also assigned to related groups. For example, if you click **TV-Y** under **All**, then **TV-Y7** will also automatically be blocked. Similarly, if you click **TV-G** under **ALL**, 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 similarly. So, if you block the **L** sub-rating in **TVPG**, then the L sub-ratings in **TV-14** and **TV-MA** will automatically be blocked.
To unblock a category, click the lock. To unblock all the categories in a row, click the lock under ALL.

To watch a blocked program, you must enter the Security code when requested.

**Movie Rating (MPAA):** You can block movies based on their MPAA rating. The Motion Picture Association of America (MPAA) has implemented a rating system that provides parents or guardians with advanced information on which films are appropriate for children.
**Movie Rating** displays a column with locks and the following ratings categories:

- **G**: General audience (no restrictions). / **PG**: Parental guidance suggested. / **PG-13**: Parents strongly cautioned. / **R**: Restricted. Children under 17 should be accompanied by an adult. / **NC-17**: No children under age 17. / **X**: Adults only. / **NR**: Not rated.

💡 To block certain content, you select a lock, and press ENTER (That is, you “click it”). For example, click the **X** lock and you block all **X**-rated movies. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the **PG-13** category, then **R**, **NC-17** and **X** will automatically be blocked also.

💡 To unblock a category, click the lock.
**Canadian English Rating:** You can block TV programs based on their Anglophone Canadian rating.

**Canadian English Rating** displays a column with locks and the following ratings categories:

- **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.
To block certain content, you select a lock, and press ENTER (That is, you “click it”). For example, click the 18+ lock and you block all TV programs rated 18+. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the G category, then PG, 14+ and 18+ will automatically be blocked.

To unblock a category, click the lock.
**Canadian French Rating**: You can block TV programs based on their French Canadian rating.

**Canadian French Rating** displays a column with locks and the following ratings categories:

- **G**: General / **8 ans+**: Programming generally considered acceptable for children 8 years and over to watch on their own. / **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.
To block certain content, you select a lock, and press ENTER (That is, you “click it”). For example, click the 18 ans+ lock and you block all TV programs rated 18 ans+. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the 8 ans+ category, then 13 ans+, 16 ans+ and 18 ans+ will automatically be blocked also.

To unblock a category, click the lock.

**Downloadable U.S. Rating:** Parental restriction information you can use while watching DTV channels.
NOTE

- If information is not downloaded from the broadcasting station, **Downloadable U.S. Rating** menu is deactivated.

- Parental restriction information is automatically downloaded while you watch DTV channels. It may take several seconds.

- The **Downloadable U.S. Rating** menu is available for use after information is downloaded from the broadcasting station. However, depending on the information from the broadcasting station, it may not be available for use.

- Parental restriction levels differ depending on the broadcasting station. The default menu name and **Downloadable U.S. Ratings** change depending on the downloaded information.
• Even if you set the on-screen display to another language, the **Downloadable U.S. Rating** menu will appear in English only.

• Blocking one rating level will automatically block other categories that deal with more sensitive material.

• The rating titles (For example: Humor Level..etc) and TV ratings (For example: DH, MH, H..etc) may differ depending on the broadcasting station.

• **Change PIN**: The **Change PIN** screen will appear. Choose any 4 digits for your PIN and enter it in **Enter New PIN**. Re-enter the same 4 digits in **Confirm New PIN**. When the Confirm screen disappears, press the OK button. The TV has memorized your new PIN.
How to watch a restricted program or movie

If the TV is tuned to a restricted program or movie, the Program Rating Lock will block it. The screen will go blank and the following message will appear:

“This channel is blocked by Program Rating Lock. Please enter the PIN to unblock.”

Enter the PIN to unblock the program or movie.

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)
Other Features

- MENU → System → ENTER

Menu Language

Set the menu language.

1. Select Menu Language, and then press the ENTER button.
2. Choose a language, and then press the ENTER button.

Choose from English, Español, and Français.
Caption

(On-Screen Text Messages)

- **Caption (Off / On):** You can switch the caption function on or off. If captions are not available, they will not be displayed on the screen.

  - The **Caption** feature does not work with devices connected to the TV through the Component, HDMI or PC input jacks.

- **Caption Mode:** You can select the desired caption mode.

  - The availability of captions depends on the program being broadcast.

  - **Default / CC1~CC4 / Text1~Text4:** (analog channels only) The Analog Caption function operates in either analog TV channel mode or when a signal is supplied from an external device to the TV. (Depending on the broadcasting signal, the Analog Caption function may or may not work with digital channels.)
The Digital Captions function works with digital channels.

- Service1~6 may not be available in digital caption mode depending on the broadcast.

- **Digital Caption Options**: (digital channels only) Adjusts the each option. When done, select Close.

  - **Size**: Options include Default, Small, Standard and Large. The default is Standard.

  - **Font Style**: Options include Default and Styles 0 to 7. The default is Style 0.

  - **Foreground Color**: You can change the color of the letters. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. The default is White.
**Background Color**: You can change the background color of the caption. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta and Cyan. The default is Black.

**Foreground Opacity**: This adjusts the opacity of text. Options include Default, Transparent, Translucent, Solid and Flashing.

**Background Opacity**: This adjusts the opacity of the caption background. Options include Default, Transparent, Translucent, Solid and Flashing.

**Default**: This option sets each Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to their default.

**Return to Default**: This option sets each Size, Font Style, Foreground Color, Background Color, Foreground Opacity and Background Opacity to its default.
NOTE

- **Digital Caption Options** are available only when you can select **Default** and **Service1 ~ Service6** in **Caption** mode.
- The availability of captions depends on the program being broadcast.
- The **Default** setting follows the standards set by the broadcaster.
- You cannot set the **Foreground** and **Background** to the same color.
- You cannot set both the **Foreground Opacity** and the **Background Opacity** to the same color.
Economical Solutions

Eco Solution

MENU → System → Eco Solution → ENTER

- **Energy Saving (Off / Low / Medium / High / Picture Off):** Lets you adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except the volume button to turn on the screen.

- **Eco Sensor (Off / On):** To enhance your power savings, the picture settings will automatically adapt to the light in the room.

- If you adjust **Backlight** in the **Picture** menu, **Eco Sensor** will be set to **Off**.
**Min Backlight**: When **Eco sensor** is **On**, you can manually adjust the minimum screen brightness.

☑️ If **Eco Sensor** is **On**, the display brightness may change (become slightly darker or brighter) depending on the surrounding light intensity. You can control the screen’s minimum brightness with the Min Backlight function.

- **No Signal Power Off (Off / 15 min. / 30 min. / 60 min.)**: To avoid unnecessary energy consumption, you can set how long you want the TV to remain on if it’s not receiving a signal.

☑️ Disabled when an attached PC is in power saving mode.

- **Auto Power Off (Off / On)**: The TV will automatically turn off if you don’t press a button on the remote or touch a button on TV’s front panel within 4 hours to prevent overheating.
Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours)

If the screen displays a still image for a certain period of time you define, the TV activates the screen saver to prevent the formation of burnt in ghost images on the screen.
General

- **Game Mode (Off / On):** When you have connected a game console such as a PlayStation™ or Xbox™ to the TV, you can enjoy a more realistic gaming experience if you set Game Mode on.

😊 Precautions and limitations for **Game Mode**:

- Before disconnecting a game console and connecting another external device, set **Game Mode** to **Off** in the **System** menu.

- If you display the TV menu in **Game Mode**, the screen shakes slightly.

😊 **Game Mode** is not available when the input source is set to TV or PC.
Set **Game Mode** to **On** only after connecting a game console. If you turn **Game Mode** on before you have attached the game console, you may notice reduced picture quality.

If **Game Mode** is On:

- **Picture** mode is set to **Standard** and **Sound** mode is set to **Movie**.

- **BD Wise (Off / On)**: Provides the optimal picture quality for Samsung DVD, Blu-ray and Home Theater products which support **BD Wise**. When **BD Wise** is turned **On**, the picture mode is automatically changed to the optimal resolution.

Available when you connect Samsung products that support **BD Wise** through an HDMI cable to the TV.

- **Boot Logo (Off / On)**: Displays the Samsung logo when the TV is turned on.

- **TV Name**: Sets the TV name so you can find it easily on a mobile device.

If you select User Input, you can type on the TV using the OSK (On Screen Keyboard).
Anynet+(HDMI-CEC)

For details on set up options, refer to the “What is Anynet+?” instructions.
DivX® Video On Demand

Shows the registration code authorized for the TV. If you connect to the DivX website and register using that code, you can download the VOD registration file. If you activate the VOD registration using My Contents, the registration is completed.

For more information about DivX® VOD, visit “http://vod.divx.com”.
Network Remote Control (On / Off)

Turn on/off or give permission to Samsung mobile phone devices to connect with and control the TV.

You must have a Samsung Mobile phone/device which supports Wireless Remote Control. For more details, refer to each device’s manual.
FAQ Picture In Picture (PIP)

MENU → System → PIP → ENTER

You can watch a program whose signal has passed through the TV’s tuner and video from one external video source simultaneously. For example, if you have a cable box connected to the Cable In jack, you can use PIP to watch programs from the cable box and a movie from a Blu-ray player attached to the HDMI In jack.
NOTE

- For PIP sound, refer to the Sound Select instructions.
- If you turn the TV off while watching in the PIP mode, the PIP function is reset to off. When you turn your TV on, you must turn PIP on again to watch in the PIP mode.
- 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.
- While Smart Hub or Program Rating Lock is on, you cannot use PIP.
- PIP is not supported in 3D mode.
• PIP Settings

The picture from the external video source will be in the main screen and the picture from the TV’s tuner will be in the PIP sub-picture window.

<table>
<thead>
<tr>
<th>Main picture</th>
<th>Sub picture</th>
</tr>
</thead>
<tbody>
<tr>
<td>Component, HDMI, PC</td>
<td>TV</td>
</tr>
</tbody>
</table>
• **PIP (Off / On):** Activate or deactivate the PIP function.

• **Air/Cable (Air / Cable):** Select either **Air** or **Cable** as the input source for the sub-screen.

• **Channel:** Select the channel for the sub-screen.

• **Size (charted / charted / charted / charted):** Select a size for the subpicture.

• **Position (charted / charted / charted / charted):** Select a position for the sub-picture.

  🚭 In Double (charted, charted) mode, you cannot select **Position**.

• **Sound Select (Main / Sub):** You can choose to listen to the sound from the **Main** picture or the **Sub** picture.
Support Menu

MENU → Support → ENTER

e-Manual

The e-Manual is built into your TV. Open the e-Manual to learn how to use your TV’s many features.

Self Diagnosis

- **Picture Test**: Use to check for picture problems. Picture test displays a high definition picture that you can examine for flaws or faults.

  **Yes**: Select Yes if the test picture does not appear or there is noise or distortion in the test picture. There may be a problem with the TV. Contact Samsung’s Call Center for assistance.

  **No**: Select No if the test picture displays properly. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device’s user manual.
• **Sound Test**: Use the built-in melody to check for sound problems.

⚠️ If you hear no sound from the TV’s speakers, before performing the sound test, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu, and then try the speakers again.

⚠️ You will hear the melody during the test even if you have set **Speaker Select** to **External Speaker** or have muted the sound by pressing the **MUTE** button.

**Yes**: Select **Yes** if you can hear sound from only one speaker or from neither speaker during the sound test. There may be a problem with the TV. Contact Samsung’s Call Center for assistance.

**No**: Select **No** if you can hear sound from the speakers. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device’s user manual.
• **Signal Information**: (digital channels only) The reception quality of over-the-air HD channels is either perfect or the channels are unavailable. Signal Information displays HD channel signal strength so you can adjust your antenna to increase signal strength and receive HD channels.

• **Troubleshooting**: Displays a troubleshooting guide organized into four symptom categories: Poor or Distorted Picture, Distorted Sound or No Sound, RF or PC Issues, and Other Issues. If your TV seems to be having a problem, access the troubleshooting guide for a solution.
**Software Upgrade**

The Software Upgrade menu lets you upgrade your TV’s software to the latest version.

- **Current Version**: This is the software version already installed in the TV.
  - The current version is displayed in the following format: Year/Month/Day- Version number.
Upgrading to the Latest Version

You can upgrade in four ways:

• By USB
• By Online
• Alternative Software
• By Standby Mode Upgrade

The three methods are explained in the following pages.

⚠️ Be careful not to turn off the power until the upgrade is complete. The TV will turn off and on automatically after completing the software upgrade. When you upgrade software, all video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the upgrade.
By USB

To upgrade by USB, follow these steps:

2. Download the latest USB software upgrade exe archive to your computer.
3. Extracts the exe archive to your computer. You should have a single folder with the same name as the exe file.
4. Copy the folder to a USB flash drive.
5. Turn on the TV, and then insert the USB flash drive into the USB port of the TV.
6. In the TV’s menu, go to **Settings → Support → Software Upgrade**.
7. Select **By USB**.

⚠ Please be careful not to remove the USB drive until the upgrade is complete.
By Online

The **By Online** function lets you download the upgrade software directly from the Internet into your TV and then upgrade the software in one operation. To use By Online, you must have configured your TV to connect to your network and the TV must be connected to the Internet. See the Network Connection instructions.

To upgrade by Online, follow these steps:

1. Select **By Online**, and then press the **ENTER** button. The Connecting to Server message appears.

2. If there is a download available, the Download pop-up appears with a progress bar and the download starts.

3. When the download is complete, the Upgrade Query window appears with three choices: **Upgrade Now**, **Upgrade Later**, or **Don’t Upgrade**.
4. If you select **Upgrade Now**, the TV upgrades the software, turns off, and then turns on automatically.

5. If you do not make a selection in one minute or select **Upgrade Later**, the TV stores the new upgrade software. You can upgrade the software later using the Alternative Software function.

6. If you select **Don’t Upgrade**, the TV cancels the upgrade.
Alternative Software

The **Alternative Software** option lets you upgrade using a file the TV downloaded earlier, but you decided not to install immediately, or a file downloaded by the TV in Standby Mode (See **Standby Mode Upgrade** on the next page).

To upgrade By **Alternative Software**, follow these steps:

1. If upgrade software has been downloaded, you will see the software version number to the right of **Alternative Software**.

2. Select **Alternative Software**, and then press the **ENTER** button.

3. The TV displays a message asking if you want to upgrade. Select **Yes**. The TV begins the upgrade.

4. When the upgrade is complete, the TV turns off automatically, and then turns on.
Standby Mode Upgrade

You can set the **Standby Mode Upgrade** function so that the TV downloads new upgrade software when it is in Standby mode. In Standby mode, the TV is off, but its Internet connection is active. This allows the TV to download upgrade software automatically, when you are not using it. Because the TV is turned on internally, the screen may glow slightly. This phenomenon may continue for more than 1 hour until the software download is complete.
To set **Standby Mode Upgrade**, follow these steps:

1. Press the arrow buttons to select **Upgrade** in Standby Mode, and then press the ENTER button.

2. Select **On** or **Off**.
   - **Off**: If you select **Off**, the TV will notify you with a pop up message when new upgrade software is available.
   - **On**: If you select **On**, the TV will automatically download new upgrade software when it is in Standby mode with the power off. If it downloads new upgrade software, the TV will ask you if you want to install it when you turn the TV on.

⚠️ To use the **Standby Mode Upgrade** function, your TV must be connected to the Internet.
Contact Samsung

View this information when your TV does not work properly or when you want to upgrade the software. You can find information regarding our call centers and how to download products and software.
Using the 3D function  

This exciting new feature enables you to view 3D content. To fully enjoy this feature, you must purchase a pair of Samsung 3D Active Glasses (SSG-3100GB, SSG-3300GR, SSG-3300CR, SSG-3700CR) to view 3D video. Samsung 3D Active Glasses are sold separately. For more detailed purchasing information, contact the retailer where you purchased this TV.
IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D PICTURES.

Read and understand the following safety information before using the TV’s 3D function.

⚠️ WARNING

- Some viewers may experience discomfort while viewing 3D TV such as dizziness, nausea and headaches. If you experience any such symptom, stop viewing 3D TV, remove the 3D Active Glasses and rest.
- Watching 3D images for an extended period of time may cause eye strain. If you feel eye strain, stop viewing 3D TV, remove your 3D Active Glasses and rest.
• A responsible adult should frequently check on children who are using the 3D function. If there are any reports of tired eyes, headaches, dizziness, or nausea, have the child stop viewing 3D TV and rest.

• Do not use the 3D Active Glasses for other purposes (such as general eyeglasses, sunglasses, protective goggles, etc.)

• Do not use the 3D function or 3D Active Glasses while walking or moving around. If you use the 3D function or 3D Active Glasses while walking or moving around you can injure yourself by running into objects, tripping, or falling.
- 3D Mode: Select the 3D input format.

If you want to experience the 3D effect fully, put the 3D Active Glasses on first, and then select the 3D Mode from the list below that provides the best 3D viewing experience.

<table>
<thead>
<tr>
<th>3D Mode</th>
<th>Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Off</td>
<td>Turns the 3D function off.</td>
</tr>
<tr>
<td>2D → 3D</td>
<td>Changes a 2D image to 3D.</td>
</tr>
<tr>
<td>Side by Side</td>
<td>Displays two images next to each other.</td>
</tr>
<tr>
<td>Top &amp; Bottom</td>
<td>Displays one image above another.</td>
</tr>
</tbody>
</table>

Some file formats may not support the “2D → 3D.”

“Side by Side” and “Top & Bottom” are available when the resolution is 720p, 1080i and 1080p in DTV, HDMI and USB mode or when you set the TV’s source to PC and your PC is connected through an HDMI/DVI cable.
- **3D Perspective (-5 ~ +5)**: Adjust overall 3D perspective of on-screen image.
- **Depth (1~10)**: Adjust overall depth.
- **L/R Change (L/R Image / R/L Image)**: Swap the left and right pictures.
- **3D → 2D (Off / On)**: Displays the image for the left eye only.
  - This function is deactivated when **3D Mode** set to “**2D → 3D**” or **Off**.
- **3D Optimize**: Automatically adjusts the picture overall to provide an optimal 3D effect.

**Resolution supported for HDMI PC mode**

The optimal resolution for the HDMI PC mode is 1920 x 1080.

If the input resolution is not 1920 x 1080, the TV may not display images properly in 3D display or full screen mode.
How to watch the 3D images

Some 3D modes may not be available depending on the format of the image source.

To watch in 3D, you must wear 3D Active Glasses and turn the glasses on by pressing the power button.

1. Press the **MENU** button on your remote, use the ▲ or ▼ button to select **Picture**, and then press the **ENTER** button.

2. Use the ▲ or ▼ button to select **3D**, and then press the **ENTER** button.

The displayed image may differ depending on the model.
3. Use the ▲ or ▼ button to select 3D Mode, and then press the ENTER button.

4. Using the ◀ or ► buttons on your remote control, select the 3D Mode of the image you want to view.

- The displayed image may differ depending on the model.
Supported formats and operating specifications for Standard HDMI 3D

The 3D formats listed below are recommended by the HDMI association and must be supported by 3D TVs.

<table>
<thead>
<tr>
<th>Source signal format</th>
<th>Standard HDMI 1.4 3D</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920x1080p@24Hz x 2</td>
<td>1920x2205p@24Hz</td>
</tr>
<tr>
<td>1280x720p@60Hz x 2</td>
<td>1280x1470p@60Hz</td>
</tr>
</tbody>
</table>
Read These Notes Before Using the 3D Function...

NOTE

- **3D Mode** is set to **Off** automatically when you access **Smart Hub** or **e-Manual** functions.

- **3D Mode** is set to its memorized configuration value automatically when you change the input source.

- Some **Picture** functions are disabled in **3D** mode.

- **PIP** is not supported in **3D** mode.

- 3D Active Glasses from Samsung’s previous product (IR type) or other manufacturers are not be supported.

- When the TV is initially powered on, it may take some time until the 3D display is optimized.
• The 3D Active Glasses may not work properly if there is any other 3D product or electronic devices turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.

• Be sure to stay within the viewing angle and optimum TV viewing distance when watching 3D pictures. Otherwise, you may not be able to see 3D effects properly.

• The ideal 3D viewing distance is three times or more the height of the screen. For example, if your screen is two feet high, you should sit at least six feet from the screen. We recommend sitting so that your eyes are level with the screen.
Using **Smart Hub**, you can stream movies, videos, and music from the Internet, access various for pay or free-of-charge applications and view them on your TV. Application content includes news, sports, weather forecasts, stock market quotes, maps, photos, and games.

- You can also start this function by pressing the **SMART HUB** button on the remote control.
Smart Hub at a Glance

You can search for various types of content that can be used on your TV. Enter a keyword to search for media, various applications, or online information that you can use on the TV.

TV Screen: Displays the current input source screen.

Information: Displays notices, new applications, and advertisements brought to you by Samsung product introductions.

Controls:
- **Red (Login):** To log in to Smart Hub.
- **Green (Sort by):** To sort the applications.
- **Yellow (Edit Mode):** To edit the applications.
- **Blue (Settings):** To change the settings of Smart Hub.

The colored buttons may work differently depending on the application.

Exit: Exits the SMART HUB.

Samsung Apps: You can download various for pay or free-of-charge application services.

Recommended: Displays recommended contents managed by Samsung.

My Applications: Displays your personal gallery of applications which you can add to, modify, and delete.
NOTE

- Samsung Electronics takes no legal responsibility for any interruption of the Smart Hub service caused by the service provider for any reason.

- The Smart Hub service downloads and processes data via the Internet so that you can enjoy the Internet contents on your TV screen. If the Internet connection is unstable, the service may be delayed or interrupted. Furthermore, the player may turn off automatically in response to conditions on the Internet. If this occurs, check the Internet connection and try again.

- Application services may be provided in English only and the contents available may vary, depending on your area.
• For more information about a Smart Hub service, visit the web site of the applicable service provider.

• The services provided are subject to change by the Smart Hub service provider without notice.

• The Smart Hub service contents may differ depending on the player’s firmware version.

• For pay DivX contents with copy protection can only be played through a composite, a component or an HDMI cable.
Starting Smart Hub the First Time

To start Smart Hub for the first time, follow these steps:

1. Press the **SMART HUB** button.

2. The **Smart Hub** screen appears. In a few cases, the **Country** screen appears immediately after.

3. If the **Country** screen has appeared, press the **↑ / ↓ / ◄ / ►** buttons to select your country, then press the **ENTER** button.

   - Certain applications are available only in certain countries.

4. The **General Disclaimer** screen appears. Press the **◄ / ►** buttons to select **Agree**, then press the **ENTER** button.

   - Screens can take a few seconds to appear.
5. The **Internet Privacy Policy** screen appears. Press the ◀/▶ buttons to select **Agree**, then press the ENTER button.

6. The **Service Update** screen appears and installs a number of services and applications. When done, it closes. The applications and services downloaded are displayed on the **Smart Hub** screen. This may take some time.

- Smart Hub may close momentarily during the installation process.
- A number of screens may appear after installation. You can press the ENTER button to close them or let them close on their own.

7. To start an application, press the ▲/▼/◀/▶ buttons to highlight a application, then press the ENTER button.
Using the Keypad

Through your remote, you can use the On-Screen Keypad to enter letters, numbers, and symbols.

- Entering Text, Numbers and Symbols

To enter text, press the number button on the remote that corresponds to the letter you want to enter. Press the button rapidly to enter a letter that is not the first letter listed on the On-Screen keypad button. For example, if you want to enter the letter b, press the 2 button on your remote rapidly twice. To enter the first letter listed on a button, press, release, and then wait.

To move within the text, use the arrow buttons. To delete text, move the cursor to the right of the character you want to delete, and then press the **PRE-CH** button. To change case or enter numbers or punctuation, press the - button.
Creating an Account

To establish your own, exclusive, configuration of Smart Hub, create your own Smart Hub account.

☞ Note

- You must use an e-mail address as an ID.
- You can register up to 10 User Accounts.
- You do not need an account to use Smart Hub.
To create an account, follow these steps:

1. Press the A button on your remote control. The Login screen appears.

2. Press the ▲ / ▼ / ◀ / ◁ buttons to select Create Account, and then press the ENTER button.

3. On the next screen, select Smart Hub Account, and then press the ENTER button. An entry screen and keypad appear.

4. Use the keypad to enter your e-mail address. This will serve as your ID.
5. When done, press the ENTER button to select OK, and then press the ENTER button again. The Login screen re-appears.

6. Select Password, and then press the ENTER button. The Password screen and a keyboard appear.

7. Use the keypad to enter a password. The password can be any combination of letters, numbers, and symbols.

   Press the button on your remote to show or hide the password as you enter it.
8. When done, press the **ENTER** button to select **OK**, and then press the **ENTER** button again. The Login screen re-appears.

9. Select **Confirm**, and then press the **ENTER** button.

10. Repeat Steps 7 and 8.

11. When the Login screen re-appears, select **Create Account**, and then press the **ENTER** button. The Confirmation window appears.

12. Select **OK**, and then press the **ENTER** button. The Continue to Register Service window appears.

13. Select **Connect Service**, and then press the **ENTER** button.
14. The Register Service Account Window appears.

If you have existing accounts with any of the listed providers, you can associate the provider account and the provider account password with your Smart Hub account.

Registration makes it easier to access the providers web site. For registration instructions, go to Step 2 in **Account Management** under **Settings** in the **Setting Up Smart Hub** section of this manual.

If you don’t have existing provider accounts or do not want to register existing accounts at this time, select **OK**, and then press the **ENTER** button. You can also let the window close on its own in about a minute.
Account Log In

To log in to your **Smart Hub** account, follow these steps:

1. With the **Smart Hub** main screen displayed on your TV, press the A button on your remote. The Login screen appears.

2. Select the ▼ next to the **Smart TV ID** field, and then press the ENTER button.

3. Select your ID from the list that appears, and then press the ENTER button. The Login screen re-appears.
4. Select **Password**, and then press the **ENTER** button. The Password window and a keypad appears.

5. Using the keypad and your remote, enter your password. When done, press the **ENTER** button, select **OK**, and then press the **ENTER** button again.

⚠️ If you want Smart Hub to enter your password automatically, select **Remember my Smart TV id and password** after you have entered your password, and then press the **ENTER** button. A check appears. Smart Hub will now enter your password automatically when you select or enter your ID.
Setting up Smart Hub

Settings

The Settings Menu Screen gives you access to account management, account reset, and account properties functions.

To access the Settings Menu, and then select a menu item, follow these steps:

1. Press the D button on your remote.
2. Press the ◀/▶ to select a menu item, and then press the ENTER button.
The functions on the **Settings** Menu screen are described below.

- **Account Management**
  
  The **Account Management** Menu contains functions that let you register your service provider accounts, change your Smart Hub password, and delete or deactivate your Smart Hub account.

- The displayed image may differ depending on the model.
Register Service Account: If you have existing accounts with any of the providers listed by the Register Service Account function, you can associate the provider account and the provider account password with your Smart Hub account. If you associate the account, you will be able to log onto the account through Smart Hub easily, without entering your account name or password.

To use the Account Management function, follow these steps:

1. In the Account Management menu, select Register Service Account, and then press the ENTER button. The Register Service Account Window appears.
2. Press the ▲ / ▼ arrow buttons to select a Service Provider you want to associate with your Smart Hub account, and then press the ENTER button.

ıdır If you have a Samsung account and you want to use the Samsung Apps function in Smart Hub, you must register your Samsung Apps account here.

3. Using your remote and the on-screen Keypad, enter your site ID and password. When done, press the ENTER button.

This is the ID and password you normally use to access your account on this site.
4. If you have entered the ID and password correctly, the Registered Successfully message appears, asking you if you want to add another service provider. If you do, press the ENTER button. If not, press the RETURN button and return to the Settings Menu.

5. If you pressed ENTER, repeat Steps 2 through 4 to associate another Service Provider.

6. When you are done, press the RETURN button.
Change Password: The Change Password function lets you change your Smart Hub password. To change the password, follow these steps:

1. Select Change Password, and then press the ENTER button.
2. Enter your current password. The next screen appears.
3. On the next screen, enter a new password on the first line. Enter it again on the second line to confirm.
4. The Changing Password Complete message screen appears. Press the ENTER button or wait for the screen to close - about 5 seconds.
Remove from TV Account List: The **Remove From TV Account List** function cancels all your current registered Service Accounts that you registered on the **Register Service Account** screen.

**Deactivate Account:** The **Deactivate Account** function deactivates your **Smart TV ID** and deletes it and all your account settings entirely from **Smart Hub**.
**Service Manager**

**Ticker Autorun:** You can set **Ticker Autorun** to come on when powering on the TV.

✔️ The **Ticker** application provides useful News, Weather, and Stock Market information. The **Ticker** application on **Smart Hub** must be downloaded to use this feature.

✔️ Depending on your country, the **Ticker** application may have a different service or not be supported.

**Channel Bound Service (Off / On):** Some channels support applications as an Internet data service, allowing you to access the Internet service while watching TV.

✔️ Only available if supported by the broadcaster
**Reset:** The *Reset* function initializes all downloaded applications, erases all user accounts and settings from the TV, and resets all Smart Hub settings to the factory default settings. It then restarts **Smart Hub** as if it were starting for the first time. Your account, however, remains on the Smart Hub server. To log into your account, enter your ID and password on the Login screen.

To use the **Reset** function, follow these steps:

1. In the **Account Management** menu, select **Reset**, and then press the **ENTER** button. The **Reset** screen appears.
2. Enter the your security password.

   - The default password set is “0-0-0-0.”

   - If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode, which resets the PIN to “0-0-0-0”: MUTE → 8 → 2 → 4 → POWER (on).

3. After a few moments, Smart Hub automatically resets. The screen may go black, then Smart Hub re-appears. In a few moments, it starts the re-initialization procedure.

4. To complete the re-initialization, go to Step 4 in Starting Smart Hub for the First Time.
• **Properties**

The Properties menu item lists three functions that display information about Smart Hub:

**Detail**: Lists information about Smart Hub including version number, the number of services installed, memory usage, and the unique product ID.

**Terms of Service Agreement**: Display the Terms of Service Agreement.
**Edit Mode**

The functions in the **Edit Mode** menu let you manipulate the applications in the My Applications section of the **Smart Hub** screen. Using these functions, you can lock and unlock access to some applications, create folders and move applications to them, rename folders, delete applications, and change the position of applications on the screen. To access the **Edit Mode** Menu, and then select a menu item, follow these steps:

1. Press the **C** button on your remote. The **Edit Mode** menu bar appears on the bottom of the screen.

2. Press the **▲ / ▼ / ◀ / ▶** to select a menu item, and then press the **ENTER** button.
The functions in the **Edit Mode** Menu bar are described below.

**NOTE**

- Some menu items may not appear on the screen. To see these items, press the ◀/▶ to move to the screen edge, and then press one more time to reveal the items.

- You can close the bar by highlighting the X on the bottom right side, and then pressing the ENTER button.

**Change Position**

The **Change Position** function lets you change the screen position of an application. To use the **Change Position** function, follow these steps:

1. Press the □ button on your remote.

2. Select an application, and then press the ENTER button. A ✔️ appears above the application.
3. Press the ▲ / ▼ / ◀ /▶ to select Change Position, and then press the ENTER button. A position change icon appears above the application.

4. Press the ▲ / ▼ / ◀ /▶ to move the icon. Press the ENTER button when the icon is in the position of your choice. The application moves to its new location.

- New Folder

The New Folder function lets you create and name new folders. Once you have created a folder, you can move applications into it.

To use the New Folder function, follow these steps:

1. Press the C button on your remote.

2. Press the ▲ / ▼ / ◀ /▶ to move the cursor to New Folder, and then press the ENTER button. The Create Folder window and a keypad appear.
3. Use the keypad to enter the name of the folder.

4. Select **OK**, and then press the **ENTER** button. The **New Folder** screen closes and the New Folder appears on the Smart Hub screen.

- **Move to Folder**

  The **Move to Folder** function lets you move an application to a folder. To use the **Move to Folder** function, follow these steps:

  1. Press the **C** button on your remote.
  2. Select an application, and then press the **ENTER** button.
3. Press the ▲ / ▼ / ◀ / ▶ to select **Move to Folder**, and then press the **ENTER** button. The Move to Folder window opens.

4. Press the ▲ / ▼ / ◀ / ▶ to select a folder, and then press the **ENTER** button. The **Moved to Folder** message appears, and then closes. The application has been moved to the folder.

To access an application in a Folder

1. Close the **Edit Mode** menu.

2. In My Applications, press the ▲ / ▼ / ◀ / ▶ to select a folder, and then press the **ENTER** button. The folder opens.

3. Select an application, and then press the **ENTER** button. The application service starts.
To Edit Items in a Folder

Select a folder, and then press the **ENTER** button. The folder opens. Press the **C** button on your remote. The Edit buttons appear at the bottom of the screen.

These buttons work the same as the **Edit Mode** menu buttons on the main screen. For example, to move an application back to the My Applications main screen:

1. Select the application.

2. Select **Move to Folder**, and then press the **ENTER** button. The **Move to Folder** window appears.

3. Select My Applications, and then press the **ENTER** button. The **Move to Folder** window closes and the application returns to the main My Applications screen.
- **Rename Folder**

The **Rename Folder** function lets you rename folders. To use the **Rename Folder** function, follow these steps:

1. Press the **c** button on your remote.

2. Press the **△ / ▼ / ◀ / ▶** to select a folder, and then press the **ENTER** button.

3. Press the **△ / ▼ / ◀ / ▶** to select **Rename a Folder**, and then press the **ENTER** button. The **Folder Rename** window and a keyboard appears.

4. Use the keyboard to enter a new name.

5. Select **OK**, and then press the **ENTER** button twice. The Rename window closes and the new name appears below the folder.
• **Lock**

The **Lock** function lets you lock some application in My Applications so they can not be opened without entering the password.

To use the **Lock** function, follow these steps:

1. Press the button on your remote.

2. Press the `↑ / ↓ / ← / →` to select an application, and then press the ENTER button. If the application can be locked, the Lock menu item darkens.

3. Press the `↑ / ↓ / ← / →` to select **Lock**, and then press the ENTER button. The Security window appears.

4. Enter your password. If you have not created a password, enter “0-0-0-0”.

5. Press the ENTER button. The **Lock Service** window appears confirming the lock, and then closes. A lock symbol appears next to the application.
Unlock

1. Press the \( C \) button on your remote.
2. Press the \( ▲ / ▼ / ◀ / ▶ \) to select a locked application, and then press the \( \text{ENTER} \) button.
3. Press the \( ▲ / ▼ / ◀ / ▶ \) to select \textit{Unlock}, and then press the \( \text{ENTER} \) button. The Security window appears.
4. Enter your password. If you have not created a password, enter “0-0-0-0”.
5. Press the \( \text{ENTER} \) button. The \textit{Lock Service Released} window appears confirming the lock has been released, and then closes.
• **Delete**

The **Delete** function lets you delete application from My Applications. To use the **Delete** function, follow these steps:

1. Press the **c** button on your remote.
2. Press the **▲ / ▼ / ◀ / ▶** to select an application, and then press the **ENTER** button.
3. Press the **▲ / ▼ / ◀ / ▶** to select **Delete**, and then press the **ENTER** button. The message, “**Do you want to delete selected?**” appears.
4. Select **Yes**, and then press the **ENTER** button. The application is deleted.
Sort by

The functions in the Sort Menu let you sort the applications in My Applications by Name, Date, Frequency (of use), and Category. If you manually change the position of an application, the Sort Menu automatically highlights User Defined when you start it.

To sort the applications in My Applications, follow these steps:

1. Press the ENTER button on your remote.

2. Press the ▲ / ▼ / ◀ /▶ to select a sorting method, and then press the ENTER button. Smart Hub sorts the applications by the method you have chosen.
Using Smart Hub

Enjoy photos, music and/or movie files saved on a USB Mass Storage Class (MSC) device and/or your PC.

1. Press the **SMART HUB** button.

2. Press the ▼ or ▲ button to select **Videos**, **Photos**, or **Music**, and then press the **ENTER** button.

To view content on a USB device, you must plug the device into a USB jack on the TV.

- The displayed image may differ depending on the model.
Connecting a USB Device

1. Turn on your TV.

2. Connect a USB device containing photo, music and/or movie files to the USB [1(HDD), 2 or 3] port on the back or side panel of the TV.

3. When a USB device is connected to the TV, the Connected Device window appears. Select a connected device, and then press ENTER.

The TV may display the files on the USB device automatically if it is the only device connected.
Read this information before using Smart Hub with a USB device.

- The USB function might not work properly with unlicensed multimedia files.
- MTP (Media Transfer Protocol) is not supported.
- The file system supports FAT16, FAT32 and NTFS.
- Certain types of USB Digital camera and audio devices may not be compatible with this TV.
- **Smart Hub** supports only the Sequential jpeg format. It does not support the Progressive jpeg format.
- **Smart Hub** supports only USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSC are Thumb drives, Flash Card Readers and USB HDD (USB HUB are not supported). Devices should be connected directly to the TV’s USB port.
Before connecting your device to the TV, please back up your files to prevent them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.

Connect a USB HDD to the dedicated **USB 1 (HDD)** port.

Do not disconnect the USB device while it is loading.

The higher the resolution of the image, the longer it takes to display on the screen.

The maximum supported JPEG resolution is 15360 X 8640 pixels.

If a file is corrupted or the TV does not support the file type, the “Not Supported File Format” message appears.

If the files are sorted by **Folder View**, up to 1000 files can be displayed in each folder.
• The TV cannot play MP3 files with DRM that have been downloaded from a for pay site. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of digital content in an integrated and comprehensive way, including protecting the rights and interests of content providers, preventing illegal copying of contents, and managing billings and settlements.

• If more than 2 PTP devices are connected, you can only use one at a time.

• If more than two MSC devices are connected, some of them may not be recognized. A USB device that requires high power (more than 500mA or 5V) may not be supported.

• If an over-power warning message is displayed while you are connecting or using a USB device, the device may not be recognized or may malfunction.
• If the TV has no input during the time set in Auto Protection Time, the Screensaver will run.
• The power-saving mode of some external hard disk drives may be released automatically when you connect them to the TV.
• If you connect a USB device with a USB extension cable, the TV may not recognize the USB device or read the files on the device.
• If a USB device you connect to the TV is not recognized, the files on the device are corrupted, or a file in the list is not played, connect the USB device to a PC, format the device and check the connection.
• If a file you deleted from the PC is still found when you run Smart Hub, use the “Empty the Recycle Bin” function on the PC to permanently delete the file.
Connecting to a PC through a network

You can play pictures, music, and videos saved in your PC through a network connection in the AllShare mode.

For more information on how to configure your TV and connect it to your network, see ‘Network Connection’.

To view content located on your PC, you must have connected your TV and your PC to your LAN and downloaded and installed AllShare PC Software on your PC.

We recommend you locate both your TV and PC in the same network subnet. IP addresses have four parts, separated by periods (111.222.333.444). If your TV and PC are in the same subnet, the first 3 parts of the TV IP address and the PC IP address (111.222.333) will be the same and only the last part (the host address) will be different.
The following Smart Hub functions are not supported when you are playing media from a PC connected through a network:

- The **Background Music** and **Background Music Setting** functions.
- Sorting files by preference in the **Photos**, **Music**, and **Videos** folders.
- The ◀ (REW) or ▶ (FF) button while a movie is playing.

Divx DRM, Multi-audio, embedded captions are not supported.

Set your PC firewall program so that AllShare PC Software is a permitted program.
Depending on the Internet server, when you use Smart Hub through a network connection:

- The sorting method may vary.
- The **Scene Search** function may not be supported.
- The **Resume** function, which resumes playing of a video, may not be supported.
  - The **Resume** function does not support multiple users. (It memorizes only the point where the most recent user stopped playing a video.)
- The ◀ or ▶ button may not work depending on the content information.

You may experience file stuttering while playing a video in **Smart Hub** through a network connection.
Move to the file you want to play using the up/down/right/left buttons, and then press the ENTER or (Play) button. The file is played.
Playing a Video

1. Press the ◄/►/▲/▼ button to select the desired video in the file list.

2. Press the ENTER◄ button or ► (Play) button.
   - The file name appears on the top with its playing time.
   - If video time information is unknown, the playing time and progress bar are not displayed.
   - During video playback, you can search using the ◄ and ► buttons.

● The displayed image may differ depending on the model.
You can use the ◀ (REW), ▶ (FF), Pause, Stop, and Play buttons on the bottom of your remote during playback.

Press the RETURN button to exit the movie.

Supported Video Subtitle Formats (for language subtitles, etc.)

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<th>Name</th>
<th>File extension</th>
<th>Format</th>
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<td>.ttxt</td>
<td>XML</td>
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<tr>
<td>SAMI</td>
<td>.smi</td>
<td>HTML</td>
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<tr>
<td>SubRip</td>
<td>.srt</td>
<td>string-based</td>
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<tr>
<td>SubViewer</td>
<td>.sub</td>
<td>string-based</td>
</tr>
<tr>
<td>Micro DVD</td>
<td>.sub or .txt</td>
<td>string-based</td>
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## Supported Video Formats

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<th>File Extension</th>
<th>Container</th>
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<th>Resolution</th>
<th>Frame rate (fps)</th>
<th>Bit rate (Mbps)</th>
<th>Audio Codec</th>
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<td>AVI</td>
<td>Divx 3.11 / 4.x / 5.1 / 6.0</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>8</td>
<td>MP3 / AC3 / LPCM / ADPCM / DTS Core</td>
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<td></td>
<td></td>
<td>XviD</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
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<td></td>
<td>MPEG4 SP / ASP</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>8</td>
<td></td>
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<tr>
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<td></td>
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<td>8</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>XVID</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>File Extension</td>
<td>Container</td>
<td>Video Codec</td>
<td>Resolution</td>
<td>Frame rate (fps)</td>
<td>Bit rate (Mbps)</td>
<td>Audio Codec</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------</td>
<td>-------------------</td>
<td>--------------</td>
<td>------------------</td>
<td>-----------------</td>
<td>---------------------</td>
</tr>
<tr>
<td>*.3gp</td>
<td>3GPP</td>
<td>H.264 BP / MP / HP</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>25</td>
<td>ADPCM / AAC / HE-AAC</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPEG4 SP / ASP</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>*.vro</td>
<td>VRO VOB</td>
<td>MPEG1</td>
<td>352x288</td>
<td>24 / 25 / 30</td>
<td>30</td>
<td>AC3 / MPEG / LPCM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPEG2</td>
<td>1920x1080</td>
<td>24 / 25 / 30</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>*.mpg *.mpeg</td>
<td>PS</td>
<td>MPEG1</td>
<td>352x288</td>
<td>24 / 25 / 30</td>
<td>30</td>
<td>AC3 / MPEG / LPCM</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MPEG2</td>
<td>1920x1080</td>
<td>24 / 25 / 30</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>H.264</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>*.ts *.tp *.trp</td>
<td>TS</td>
<td>MPEG2</td>
<td>1920x1080</td>
<td>24 / 25 / 30</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>H.264</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>VC1</td>
<td>1920x1080</td>
<td>6 ~ 30</td>
<td>25</td>
<td></td>
</tr>
</tbody>
</table>
Other Restrictions

☐ NOTE

- Video content will not play, or not play correctly, if there is an error in the content or the container.

- Sound or video may not work if the contents have a standard bitrate/frame rate above the compatible Frame/sec listed in the table above.

- If the Index Table is in error, the Seek (Jump) function is not supported.

- You may experience file stuttering while playing a video through a network connection.
- The menu may take longer to appear if the video’s bit rate exceeds 10Mbps.
- Some USB/digital camera devices may not be compatible with the player.

<table>
<thead>
<tr>
<th>Video Decoder</th>
<th>Audio Decoder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supports up to H.264, Level 4.1</td>
<td>Supports up to WMA 7, 8, 9, STD</td>
</tr>
<tr>
<td>H.264 FMO / ASO / RS, VC1 SP / MP / AP L4 and AVCHD are not supported.</td>
<td>WMA 9 PRO does not support 2 channel excess multi channel or lossless audio.</td>
</tr>
<tr>
<td>XVID, MPEG4 SP, ASP:</td>
<td>WMA sampling rate 22050Hz mono is not supported.</td>
</tr>
<tr>
<td>- Below 1280 x 720: 60 frame max</td>
<td></td>
</tr>
<tr>
<td>- Above 1280 x 720: 30 frame max</td>
<td></td>
</tr>
</tbody>
</table>
Using the Play Continuously Function (Resume Play)

If you exit a movie when it is playing, you can play the movie later from the point where you stopped it.

- The **Resume** function does not support multiple users. (It will only memorize the point where the most recent user stopped playing.)

1. Select the movie file you stopped and want to resume by pressing the ◀ or ▶ button.

2. Press the ▶️ (Play) or ENTER ◀ button.

3. Press Resume Icon on control panel for resume. The Movie will begin to play from where you stopped it.

- **Resume** is only available when you resume playing a movie you had stopped.
Music

Playing Music

1. Press the ◄/►/▲/▼ button to select the desired music file in the file list.

2. Press the ENTER button or (Play) button.
   - When the music is playing, you can search using the ◄ (REW) and ► (FF) button.

⚠️ Smart Hub only displays files with MP3 file extensions. Other file extensions are not displayed, even if they are saved on the same USB device.

⚠️ If the sound is abnormal when you play MP3 files, adjust the Equalizer in the Sound menu. (An over-modulated MP3 file may cause a sound problem.)
Creating My Playlist

1. On the Music screen in the Smart Hub menu, press the ◀ / ◁ / ▲ / ▼ button to select Edit Mode, and then press the ENTER button.
   - A check box appears to the left of the files.

2. Press the ◀ / ◁ / ▲ / ▼ button to select the tracks you want to add, and then press the ENTER button.
   - A check appears in the check box.

3. Repeat Step 2 to select additional tracks.
   - To select all the files in the current page, select Select All at the top of the page, and then press ENTER.
4. Press the ◀ / ▶ / ▲ / ▼ button to select Add to My Playlist.

⚠️ Note that selecting Clear My Playlist will return My Playlist to the default playlist and remove all the tracks you added.

5. Press the ENTER button. The message “Selected items were added to My Playlist.” is displayed.

6. The newly created or updated playlist will be in the main Music page.

Playing My Playlist

Select the My Playlist folder and it will play automatically. Press the ▲ or ▼ button to play a different music file within the playlist.

⚠️ To delete a file from My Playlist, select the recycle bin icon next to the file you want to delete by using the direction buttons, and then press ENTER. The file will be deleted from My Playlist.
Playing Selected Music Files

1. On the **Music** screen in the **Smart Hub** menu, press the ↓/↑/▲/▼ button to select **Edit Mode** on the far right side of the screen, and then press the ENTER button.

2. Press the ↓/↑/▲/▼ button to select the desired music file in the file list, and then ENTER button.

   - The ✔ mark appears to the left of the selected files.

3. Repeat Step 2 to select additional tracks.

   - To select all the files in the current page, select **Select All** at the top.
   - To cancel a selection, press the ENTER button again.

4. Press the ↓/►/▲/▼ button to select **Play** at the bottom of the screen, and then press ENTER. The selected music files play.
Photos

Viewing a Photo (or Slide Show)

1. Press the \[\text{left} / \text{right} / \text{up} / \text{down}\] button to select the desired file in the file list.

2. Press the \text{ENTER} button.

- To view files manually, one at a time, press the left or right arrow buttons.
- To start the slide show, press the \text{ENTER} button when the file you selected is displayed.
- During the slide show, all files in the file list are displayed in order, starting from the file you selected.

- The displayed image may differ depending on the model.
When you press the (Play) button in the file list, the slide show will start immediately.

During a **Slide show**, press the **TOOLS** button to access additional functions such as **Slide Show Speed, Background Music, Zoom, and Rotate**.

You can add background music to a slide show if you have music files on your USB device or PC by setting Background Music to On in the Tools menu, and then selecting music files to play.

The **Background Music (BGM) Mode** cannot be changed until the BGM has finished loading.

You can use the Pause, Stop, and Play buttons on the bottom of your remote during a slide show.

When you press the **Stop** or **Return** button, the slide show stops and the main photo screen re-appears.
### Smart Hub - Additional Functions

#### Sorting the file lists

To sort files in the file lists, select the 📚 (Sort) icon in the top right of the screen by using the ◀/▶/▲/▼ button. Then, press the ENTER button. The checks below indicate which media the sort criteria apply to.

<table>
<thead>
<tr>
<th>Sort Criteria</th>
<th>Operation</th>
<th>Videos</th>
<th>Music</th>
<th>Photos</th>
</tr>
</thead>
<tbody>
<tr>
<td>Folder View</td>
<td>Displays the whole folder. You can view the file name and thumbnail by selecting the folder.</td>
<td>▼</td>
<td>▼</td>
<td>▼</td>
</tr>
<tr>
<td>Title</td>
<td>Sorts and displays the file title in Symbol/Number/Alphabet/Special order.</td>
<td>▼</td>
<td>▼</td>
<td>▼</td>
</tr>
<tr>
<td>Latest Date</td>
<td>Sorts and shows files by the latest date.</td>
<td>▼</td>
<td>▼</td>
<td>▼</td>
</tr>
<tr>
<td>Earliest Date</td>
<td>Sorts and shows files by the earliest date.</td>
<td>▼</td>
<td>▼</td>
<td>▼</td>
</tr>
<tr>
<td>Sort Criteria</td>
<td>Operation</td>
<td>Videos</td>
<td>Music</td>
<td>Photos</td>
</tr>
<tr>
<td>---------------</td>
<td>---------------------------------------------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td><strong>Artist</strong></td>
<td>Sorts the music file by artist in alphabetical order.</td>
<td></td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td><strong>Album</strong></td>
<td>Sorts the music file by album in alphabetical order.</td>
<td></td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td><strong>Genre</strong></td>
<td>Sorts music files by the genre.</td>
<td></td>
<td>✗</td>
<td>✗</td>
</tr>
<tr>
<td><strong>Monthly</strong></td>
<td>Sorts and shows photo files by month.</td>
<td></td>
<td></td>
<td>✗</td>
</tr>
</tbody>
</table>
Videos/Music/Photos Play Option menu

When playing video, music, or photo files, you can press the **TOOLS** button to display an Options menu. Below are a series of tables listing the options available and the media each option applies to.

<table>
<thead>
<tr>
<th>Option Name</th>
<th>Operations</th>
<th>Videos</th>
<th>Music</th>
<th>Photos</th>
</tr>
</thead>
<tbody>
<tr>
<td>List</td>
<td>Return to the file list.</td>
<td>✔️</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>Previous / Next</td>
<td>Go to previous / next photo file.</td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Shuffle</td>
<td>You can play the music sequentially or randomly.</td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Resume</td>
<td>You can restart a movie file from where you stopped it.</td>
<td></td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Option Name</td>
<td>Operations</td>
<td>Videos</td>
<td>Music</td>
<td>Photos</td>
</tr>
<tr>
<td>-----------------</td>
<td>----------------------------------------------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td><strong>Title Search</strong></td>
<td>You can move directly to another Title.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Time Search</strong></td>
<td>You can search the movie using ◀ and ▶ buttons at intervals of 10 seconds.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Subtitle</strong></td>
<td>You can view a subtitle. You can select a specific language if the subtitle file contains multiple languages.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Repeat Mode</strong></td>
<td>You can play movie and music files repeatedly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Picture Size</strong></td>
<td>You can adjust the picture size to your preference.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Picture Mode</strong></td>
<td>You can change the <strong>Picture Mode</strong>.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option Name</td>
<td>Operations</td>
<td>Videos</td>
<td>Music</td>
<td>Photos</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------------------------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td><strong>Sound Mode</strong></td>
<td>You can change the <strong>Sound Mode</strong>.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Audio Language</strong></td>
<td>You can enjoy video in one of supported languages. The function is enabled only when you play stream-type files which support multiple audio formats.</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td><strong>Subtitle Setting</strong></td>
<td>Displays the <strong>Subtitle Setting</strong>. You can set up a subtitle option.</td>
<td></td>
<td>✔</td>
<td>✔</td>
</tr>
<tr>
<td><strong>Start Slide Show / Stop Slide Show</strong></td>
<td>You can start or stop a slide show. Alternatively, use the ▶ or ▶ button on the remote.</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td><strong>Slide Show Speed</strong></td>
<td>You can select the slide show speed during the slide show. Alternatively, use the ▶ or ▶ button on the remote.</td>
<td></td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Option Name</td>
<td>Operations</td>
<td>Videos</td>
<td>Music</td>
<td>Photos</td>
</tr>
<tr>
<td>---------------------</td>
<td>----------------------------------------------------------------------------</td>
<td>--------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td>Slide Show Effect</td>
<td>You can set various slide show effects.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Background Music On / Off</td>
<td>You can start or stop background music.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Background Music Setting</td>
<td>You can set and select background music when watching a photo file or slide show.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Zoom</td>
<td>You can zoom into images in full screen mode.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rotate</td>
<td>You can rotate images.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

✔️ Pressing the **INFO** button while a device name is selected will display information about the selected device.

✔️ Pressing the **INFO** button while a file is selected will display information about the selected file.
⚠️ Using Samsung Apps

Samsung Apps

Samsung Apps is a store from which you can download applications to use on Samsung TV/AV equipment.

You can enjoy a variety of contents such as videos, music, photos, games, useful information etc. using the downloaded applications.

New applications are added regularly.
Using the colored buttons with Samsung Apps.

- **A** Red (Login): To log in to the Internet service.
- **B** Green (List View / Thumbnail View): To toggle the view between List and Thumbnail.
- **D** Blue (Sort by): To sort the applications by Recommended, Most downloaded, Most recent or Name.

You can sort all categories except What’s New?.

- **Page**: Move to previous or next page.
- **Return**: Moves to previous menu.

The displayed image may differ depending on the model.
Using Samsung Apps by category

The following categories are available:

- **What’s New?**: Displays newly registered applications.
- **Video**: Displays apps that provide video media such as movies, TV shows and short length videos.
- **Game**: Displays various game apps such as sudoku and chess.
- **Sports**: Displays apps that provide sports content such as game results, images and short length video.
- **Lifestyle**: Includes apps that provide lifestyle media services such as music, personal photo management tools, and social networking such as Facebook and Twitter.
• **Information**: Includes apps that provide information content such as news, financial information, stock quotes, weather, etc.

• **Other**: Includes other miscellaneous apps.

• **My Account**: Displays the application list and your cyber cash balance.

  - Starting in the middle of 2010 (US and Korea only), you can purchase cyber-cash that you can use to buy applications through tv.samsungapps.com.

• **Help**: If you have questions about **Smart Hub**, check this section first.
(May not be available, depending on your country.)

Share your TV viewing experience with your friends via social networking services (SNS). Using the Social TV function provided by the Smart Hub, you can use an SNS function such as Twitter, Facebook or Google Talk while watching TV in the same way you use it on a PC. For detailed information about using a service, refer to the corresponding website.

To use the Social TV function, you have to sign in uniformly first. If you don’t have a Smart Hub account, create a Smart Hub ID and log in first. If the Smart Hub account is not linked with the user account of the SNS, you have to register the SNS account in Smart Hub to use the service through Smart Hub. For more information about registering a service site, refer to “How to create a Smart Hub ID”
1. To open **Social TV**, press the ◀/▶/▲/▼ buttons to select **Social TV**, and then press the ENTER button.

2. Enjoy your social network service through **Social TV**

### Using the colored and function buttons with Social TV

<table>
<thead>
<tr>
<th>Button</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Red</td>
<td><em>(Log in / Logout)</em>: To log into or logout of the Smart Hub account.</td>
</tr>
<tr>
<td>Green</td>
<td><em>(Refresh)</em>: Refresh the application.</td>
</tr>
<tr>
<td>Yellow</td>
<td><em>(Write Comment)</em>: Displays the Comment screen.</td>
</tr>
<tr>
<td>Blue</td>
<td><em>(Change Mode)</em>: Change the view mode. Select Overlay, PIG, or Hide mode.</td>
</tr>
<tr>
<td>📷</td>
<td><strong>TOOLS</strong>: Displays the Service Setting. You can activate or deactivate the service.</td>
</tr>
<tr>
<td>⏪</td>
<td><strong>Return</strong>: Return to the previous screen.</td>
</tr>
</tbody>
</table>
Search

(May not be available, depending on your country.)

Easily search for and access content from diverse sources (e.g. applications, Your Video, AllShare)

- Usable while using SMART HUB
- For easy access, use the SEARCH button on the remote control.
- For detailed instructions to use search function, please visit www.samsung.com.
1. To open **Search**, press the ◀ / ▶ / ▲ / ▼ buttons to select **Search**, and then press the ENTER button.

2. If you want to input a search term directly, press the ENTER button. A keypad screen appears. Enter the search term using the remote control.

   📘 If you want to select a category, press the ▼ button. You can select a category to search.
Your Video

(May not be available, depending on your country.)
Provides recommendations for videos based on your tastes.

- Lets you see movie recommendations based on your previous preferences.
- Lets you select a movie, displays a list of VOD (Video on Demand) providers that have the movie, and then lets you choose a provider for streaming. (Streaming is unavailable in some areas.)
- For instructions to use Your Video, please visit www.samsung.com.
Your Video: Personalize your movie-watching with a customized video on demand (VOD) recommendation service.

Most Searched: You can search for a video by selecting a key word in the key word list. The key word list displays words you frequently use for searches.

Top Application: You can search top video applications and services for a video.

Search History: You can search for a video by selecting a keyword in the History list.
Web Browser  For LED 6300 and 6900 Series

(May not be available, depending on your country.)

Using the Web Browser function provided by the Smart Hub, you can surf the Internet on your TV.

1. To open Web Browser, press the ◀ / ▶ / ▲ / ▼ buttons to select Web Browser, and then press the ENTER button.

2. Surf the Internet in the much the same way as on a PC.
When the Web Browser opens, the cursor is in Tab Mode. In Tab Mode, the cursor highlights text or objects, or surrounds them with a blue rectangle. To move the cursor in Tab Mode, use the ◀/▶/▲/▼ buttons. Press ENTER to select. To scroll the screen ▲ or ▼ down, use the ◀ or ▶ buttons.

You can change from Tab Mode to Pointer Mode by pressing the Yellow button. Use the arrow buttons to move the pointer. Press ENTER to select.

The Web Browser has a series of icons across the top of the screen. With these icons, you can easily use the Web Browser. The icons are described below, starting with the icon on the far left of the screen.

- **(Back)**: Moves to the previous web page.
  - If there is no saved previous web page, this icon will not work.
- **(Forward)**: Moves to the next web page if there are saved URLs.
  - If there is no saved next web page, this icon will not work.
**Refresh / Stop**: Refreshes the current page or stops the current connection from loading.

**Home**: Goes to the URL you specified as your the home page.

**Zoom**: You can select a zoom level of 50%, 75%, 100%, 125%, 150%, 200%, 400% and **Fit to Screen**.

**Favorite**: Displays the **Favorites List** screen. You can set the current page as a Favorite or select a favorite page to visit from the Favorites page list.

**History**: Displays the **History** screen. You can select a web page to visit in the History list. You can also sort the History list by **Date**, **Name**, or **Frequency**. To sort, select the **Sort Criteria** button in the upper right corner of the History screen and then press **ENTER**.
When you highlight a page, the **Options** button appears on the right. Access the Options by selectng the Options button, and then pressing **ENTER**. In the Options pop-up you can **Delete** the selected page from the history list, **Delete All** pages from the History list, or **Add** the selected page to **Favorites**.

**URL**: Shows the URL of the current page. If you press the **ENTER** button, the URL pop-up appears. Press **ENTER** again and you can key in a new URL directly. You can also select a page to visit on the displayed Page list.

In addition, you can sort the Page list by **Date**, **Name**, or **Frequency**. To sort, select the **Sort Criteria** button in the upper right corner of the **URL** pop-up and then press **ENTER**.
Window: Displays images of open windows (the Window List). You can add the current page to the list (using Add a new page), select and access a page in the list, select and close a page in the list, or close all pages. The selected page is the enlarged page in the center.

- A new web browser tab automatically displays the home page.

Search: Lets you search the web. When you access the Search entry field and press ENTER, the Browser displays a pop-up with a text entry keyboard and a text entry field on the right. The keyboard functions much like a cell phone texting keypad.

On the left of the pop up is the name of the current search engine. Select the search engine and press ENTER, and you can select a different search engine or add a search engine to the current list.

Settings: You can configure the Web Browser settings.
Using the colored and function buttons with the Web Browser

- **Red (Back):** Moves to previous page. If there is no saved previous web page, this button will not work.

- **Green (Zoom):** You can select a screen size of 50%, 75%, 100%, 125%, 150%, 200%, 400% and Fit to Screen.

- **Yellow (Pointer Mode / Tab Mode):** You can change the cursor to Pointer Mode or Tab Mode.

- **Blue (PIP):** Turns PIP on or off. With PIP on, you can watch TV while using the Web Browser.
• Ṣ TOOLS (Options): Displays the icons from the top of the page in a toolbar in the middle of the screen. Press RETURN to close.

• ฎ (Scroll Up / Down): You can scroll the page up or down.

• ⏯ Return: Return to the previous screen or close the Web Browser. You can also close the Browser by pressing the EXIT button.

Setting up the Web Browser

Press the TOOLS button or move the cursor to the top of the screen, and then select the Settings icon.

• PIP Settings: Lets you configure the PIP function.
  PIP Position: Select a position for the PIP sub-picture.

  Sound Select: Select the audio source you will hear - Main or Sub - when PIP is on.
- **Reading Tool**: Provides an easy-to-read page by enlarging the main text.

- **Clean Site**: When **Clean Site** is on, you can only access the web pages registered in **Clean Site**. Use Clean Site to restrict your children’s access to appropriate web pages.

To access the Clean Site function, you must enter your Clean Site password. If you have not created a Clean Site password, enter the default password 0 0 0 0.

**Clean Site Feature (On / Off)**: Turn **Clean Site**, on and off.

**Clean Site Password Manage**: Enter a new password.
• **Add Current Site**: Lets you add the currently displayed web site to the Clean Site list.

**Clean Site Manage**: Lets you key in URLs to add to the Clean Site List and delete sites from the Clean Site List.

✅ If you turn Clean Site on and have not added any sites to the Clean Site List, you will not be able to access any Internet sites.

• **Private Browsing**: Enable or disable the Browser Privacy Mode. When the Browser Privacy Mode is enabled, the browser does not retain the URLs of sites you visit. If you want to enable Private Browsing, Select Yes. If the Private Browsing function is running, the "Stop" icon appears in front of the URL at the top of the screen. To disable Private Browsing, select it again when Private Browsing is enabled.
- **Options**: You can configure **Web Browser** options.

**Home Settings**: You can set the home page.
- **Most Visited Sites**: Set the most frequently visited URL as the home page.
- **CurrentPage**: Sets the current page as the home page.
- **Direct Input**: Lets you key in the URL of the page you want for your home page. The keyboard works like a cell phone texting keyboard.

**Pop Up Block Settings**: Turns the **Pop Up Blocker** on or off.

**Advertisement Block Settings**: You can determine whether to block advertisements and select the URLs for which advertisements are blocked.
- **Advertisement Block (On / Off):** Turns the Advertisement Block on or off.
- **Block Current Site:** Adds the current page to the blocked list.
- **Manage Advertisement Block:** Displays the Advertisement Block Site Management screen. You can add a website for which advertisements should be blocked by directly keying in the URL, or you can delete a website from the list.

**Delete Personal Info:** You can delete your personal information.

- **Delete Visited History:** Deletes the website history.
- **Delete Internet use Info:** Deletes Internet access information such as cookies.
Encoding: You can set the Encoding setting for webpages to Automatic or Manual.

- **Automatic Selection (On / Off)**: Select the Encoding settings for webpages automatically.
- **Settings**: Select the Encoding settings for webpages manually. Select an encoding format from the encoding format list.

Pointer: You can set the speed of the cursor when the cursor is set to **Pointer Mode**.

- **Pointer Speed (Slower / Slow / Standard / Fast / Faster)**: Select a pointer speed.

Version Info: You can view the version information of the **Web Browser**.

User Guide: Refer to this information before using the **Web Browser**.
Skype  For LED 6300, 6500 and 6900 Series

Skype created a little piece of software that makes communicating with people around the world easy and fun. With Skype you can say hello or share a laugh with anyone, anywhere. And if both of you are on Skype, it’s free. Communicate with people around the world! Buy and use the TV camera (SAMSUNG only).

- Other company’s TV Cameras are not compatible with Skype on your TV.
- For more information, download the Skype user’s manual from “www.samsung.com.”

BEST BUY APPLICATION  For LED 6420 and 6900 Series

For more information, visit “BestBuy.com/connected”. 
[Legal Statement]

Due to the various capabilities of products featuring the Samsung Smart Hub - Content Service, as well as limitations in the available content, certain features, applications, and services may not be available on all devices or in all territories. Some features on Smart Hub may also require additional peripheral devices or membership fees that are sold separately. Please visit http://www.samsung.com for more information on specific device information and content availability. The services and availability of content through Smart Hub are subject to change from time to time without prior notice.
## Troubleshooting for Smart Hub

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
</table>
| Some application contents only appear in English. How can I change the language? | The Application content language may be different from the application user interface language.  
The ability to change the language depends on the service provider. |
| Some application services do not work.                                 | Check with the service provider.  
Refer to the help website for application service provider information. |
| When a network error occurs, I can only use the setting menu.          | If network connection doesn’t work, your service might be limited, as all functions except the setting menu are needed to connect to the internet. |
Troubleshooting for Web Browser

1. To open Web Browser, press the ▲ / ▼ / ◀ / ▶ buttons to select Web Browser, and then press the ENTER button. The Web Browser may be displayed differently with PC.

2. The Web Browser is not compatible with a Java application.

3. When attempted to download a file, but the file could not be saved and an error message appeared.

4. Access may be blocked to some websites or to web browsers operated by certain businesses.

5. Playback of Flash video may be restricted.

6. E-commerce, for purchasing products online, is not supported.
7. Scrolling a web page that allows only part (and not the whole) of the page to be scrolled may cause corrupted characters.

8. ActiveX is not supported.

9. Some options cannot be accessed in Tab mode. (To access such options, switch to Pointer mode.)

10. Some text may appear corrupted because the number of supported fonts is limited.

11. The response to a command on the remote or the screen display may be delayed temporarily if a web page is currently loading.

12. The loading of a web page may delay or stop with some operating systems.

13. Copy and Paste are not supported.
14. When writing emails or posting messages, some functions (Such as changing the size or colours.) may not be supported.

15. The number of bookmarks and logs that can be saved is limited.

16. The maximum number of windows that can open at the same time may vary depending on the browsing condition or TV model.

17. The web browsing speed depends on the network conditions.

18. **PIP** will automatically be deactivated if a video is played in the browser. Videos may not commence playback after PIP interruption and a possible refresh for the page may be required.

19. The Web Browser can play MP3 audio files only.

20. The function for importing or exporting bookmarks is compatible with bookmark files in a particular file format only. (Compatible format: Netscape-bookmark-file-1)
21. When you import or export the bookmark, the folder tree is not included.

22. If you import the bookmark file to a Computer from a TV, the bookmark file will be saved in “Samsung SmartTV Bookmark” folder.

23. If the time is not set in the menu (System → Time → Clock), the history information may not be saved.

24. Visited web site history is saved in chronological order and it will be removed from the list according to oldest page accessed.

25. Some video or audio content may not play during Flash playback depending on the video/audio codec supported.
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Samsung is neither responsible nor liable for customer service related to the content and services. Any question or request for service relating to the content or services should be made directly to the respective content and service providers.
AllShare™ connects your TV and compatible Samsung mobile phones/devices through a network. On your TV, you can view call arrivals and SMS messages received by your mobile phones. In addition, you can play media contents including videos, photos, and music saved on your mobile phones or the other devices (such as your PC) by controlling them on the TV via the network. Additionally, you can use your TV for browsing web pages on your mobile phones.

For more information, visit “www.samsung.com” or contact the Samsung call center. Mobile devices may need additional software installation. For details, refer to each device’s user’s guide.
If your Samsung TV connects to a non-Samsung DLNA server, a compatibility issue may occur during video playback.

By connecting your Samsung TV to a network via AllShare™, you can use Samsung’s original functions as follows:

- Playback of various video formats (DivX, XVID, MP4, 3GPP, AVI, ASF, MKV, etc.)
- Video thumbnail feature
- Bookmark function (to resume video playback)
- Auto-chaptering (scene navigation)
- Digital content management
- Compatibility with various subtitle formats (SRT, SMI, SUB, TXT, TTXT)
- Search with file names
- And many others

To use the original DLNA functions of Samsung fully, it is recommended that you use the AllShare™ software provided with your TV.
Setting Up AllShare™

MENU → Network → AllShare Settings → ENTER

AllShare Settings

- **Media (On / Off)**: Enables or disables the media function. When the media function is on, you can control Media contents play using mobile phones or other devices that support DLNA DMC.

- The displayed image may differ depending on the model.
Media

Shows a list of mobile phones or connected devices which have been set up to use the Media function with this TV.

The Media function is available in all devices which support DLNA DMC.

- **Allowed / Denied**: Allows/Blocks the devices.
- **Delete**: Deletes the devices from the list.

This function only deletes the name of the device from the list. If the deleted device is turned on or tries to connect to the TV, it may appear on the list again.
Using the Media Function

An alarm window appears informing you that media contents (videos, photos, music) sent from a mobile phone will be displayed on your TV. The contents are played automatically 3 seconds after the alarm window appears. If you press the RETURN or EXIT button when the alarm window appears, the media contents are not played.

NOTE

- The first time a device accesses your TV through the media function, a warning popup window appears. Press the ENTER button to select Allow. This permits the phone to access the TV freely and use the Media function to play content.
• To turn off media contents transmissions from a mobile phone, set **Media** to **Off** in the **AllShare Settings**.

• Contents may not play on your TV depending on their resolution and format.

• The **ENTER** and **◄ / ►** buttons may not work depending on the type of media content.

• Using the mobile device, you can control the media play. For details, refer to each mobile’s user’s guide.
Anynet+(HDMI-CEC)

What is Anynet+?

Anynet+ is a function that enables you to control all connected Samsung devices that support Anynet+ with your Samsung TV’s remote. The Anynet+ system can be used only with Samsung devices that have the Anynet+ feature. To be sure your Samsung device has this feature, check if there is an Anynet+ logo on it.

NOTE

- You can only control Anynet+ devices using the TV’s remote control, not the buttons on the TV.
- The TV remote control may not work under certain conditions. If this occurs, reselect the Anynet+ device.
- The Anynet+ functions do not operate with other manufacturers’ products.
• For instructions explaining how to connect Anynet+ external devices, refer to the device’s user manual. You must connect an Anynet+ device using an HDMI cable. Some HDMI cables may not support Anynet+ functions.

• Anynet+ works when the AV device supporting Anynet+ is in the standby or on status.

• Anynet+ supports up to 12 AV devices in total. Note that you can connect up to 3 devices of the same type.
• However, you can connect only one Anynet+ Home Theater. To connect an Anynet+ Home Theater, connect the Home Theater to the TV using an HDMI cable then:
  – To hear sound from the Home Theater’s Front, Left and Right speakers and the subwoofer only, connect a Digital Optical cable between the **DIGITAL AUDIO OUT (OPTICAL)** jack on your TV and the Digital Audio Input on the Home Theater.
  – To hear 5.1 channel audio, connect HDMI cables to your Anynet+ DVD player, satellite box, etc. Then, connect the **DIGITAL AUDIO OUT (OPTICAL)** jack on your DVD player, Satellite Box, etc. (i.e. Anynet + Device 1 or 2) directly to the Home Theater, not the TV.
## Anynet+ Menu

The Anynet+ menu changes depending on the type and status of the Anynet+ devices connected to the TV.

<table>
<thead>
<tr>
<th>Anynet+ Menu</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>View TV</td>
<td>• Changes Anynet+ mode to TV broadcast mode.</td>
</tr>
<tr>
<td>Device List</td>
<td>• Shows the Anynet+ device list.</td>
</tr>
<tr>
<td>(device_name) MENU</td>
<td>• Shows the menu of the connected device. E.g. if a DVD player is connected, the disc menu of the DVD player will appear.</td>
</tr>
<tr>
<td>(device_name) Tools</td>
<td>• Shows the tools menu of the connected device. E.g. if a DVD player is connected, the tools menu of the DVD player will appear.</td>
</tr>
<tr>
<td></td>
<td>🚫 Depending on the device, this menu may not be available.</td>
</tr>
<tr>
<td>(device_name) Title Menu</td>
<td>• Shows the title menu of the disc in the connected device. E.g. If a DVD player is connected, the title menu of the movie in the DVD player will appear.</td>
</tr>
<tr>
<td></td>
<td>🚫 Depending on the device, this menu may not be available.</td>
</tr>
<tr>
<td>Receiver</td>
<td>• Sound is played through the receiver.</td>
</tr>
</tbody>
</table>
Setting Up Anynet+

- MENU → System → Anynet+ (HDMI-CEC) → ENTER

- Anynet+ (HDMI-CEC) (Off / On)
  
  To use the Anynet+ Function, Anynet+ (HDMI-CEC) must be set to On.

  - When the Anynet+ (HDMI-CEC) function is disabled, all the Anynet+ related operations are deactivated.
Auto Turn Off (No / Yes)

Set an Anynet+ Device to turn off automatically when the TV is turned off.

- If Auto Turn Off is set to Yes, running external devices will turn off at the same time as the TV powers off.

- May not be enabled depending on the device.
Switching between Anynet+ Devices

1. Press the **TOOLS** button, select **Anynet+ (HDMI-CEC)**, and then press **ENTER**.

2. Select **Device List**, and then press the **ENTER** button.
   - If you cannot find a device you want, select **Refresh** to refresh the list.

3. Select a device, and then press the **ENTER** button. You can switch to the selected device.
The **Device List** menu appears only when you set **Anynet+ (HDMI-CEC)** to **On** in the **System** menu.

- Switching to the selected device may take up to 2 minutes. You cannot cancel the switching operation while switching is in progress.

- If you have selected an Anynet+ device by pressing the **SOURCE** button and then selecting its input source, you cannot use the Anynet+ function. Make sure to switch to an Anynet+ device by using the **Device List**.
Listening through a Receiver

You can listen to sound through a receiver (i.e Home Theater) instead of the TV Speaker.

1. Select Receiver and set to On.

2. Press the EXIT button to exit.

- If your receiver supports audio only, it may not appear in the device list.
- The receiver will work when you have properly connected the optical in jack of the receiver to the DIGITAL AUDIO OUT (OPTICAL) jack of the TV.
- When the receiver (i.e Home Theater) is set to On, you can hear sound output from the TV’s Optical jack. When the TV is displaying a DTV (air) signal, the TV will send out 5.1 channel sound to the receiver. When the source is a digital component such as a DVD player and it is connected to the TV via HDMI, you will hear only 2 channel sound from the receiver.
Using the ARC function

You can listen to sound through a receiver connected using an HDMI cable without connecting a separate optical cable.

1. Select **Receiver** and set to **On**.

2. Press the **EXIT** button to exit.

- To use the ARC function, a receiver which supports the HDMI-CEC and ARC features must be connected to the **HDMI IN 2 (ARC)** port.

- To disable the ARC function, set the **Receiver** to **Off**. Even if the TV transmits the ARC signal continuously, the receiver will be blocked from receiving the signal.
## Troubleshooting for Anynet+

<table>
<thead>
<tr>
<th>Problem</th>
<th>Possible Solution</th>
</tr>
</thead>
</table>
| Anynet+ does not work.   | • Check if the device is an Anynet+ device. The Anynet+ system supports Anynet+ devices only.  
• You can connect only one receiver (home theater).  
• Check if the Anynet+ device power cord is properly connected.  
• Check the Anynet+ device’s Video/Audio/HDMI cable connections.  
• Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu.  
• Check whether the TV remote control is in TV mode.  
• Check whether the remote control is Anynet+ compatible.  
• Anynet+ doesn’t work in certain situations. (Searching channels, operating **Smart Hub** or **Plug & Play** (initial setup), etc.)  
• If you have removed and then reconnected the HDMI cable, please make sure to search devices again or turn your TV off and on again.  
• Check if the Anynet+ function of the Anynet device is set on. |
| I want to start Anynet+. | • Check if the Anynet+ device is properly connected to the TV and check if the **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ Setup menu.  
• Press the **TOOLS** button to display the Anynet+ menu and select a menu you want. |
| --- | --- |
| I want to exit Anynet+. | • Select **View TV** in the Anynet+ menu.  
• Press the **SOURCE** button on the TV remote control and select a non-Anynet+ device.  
• Press $\uparrow \downarrow$ and **PRE-CH** to change the TV mode. (Note that the channel button operates only when a tuner-embedded Anynet+ device is not connected.) |
| The message “Connecting to Anynet+ device...” appears on the screen. | • You cannot use the remote control when you are configuring Anynet+ or switching to a view mode.  
• Use the remote control after the TV has completed Anynet+ configuration or has finished switching to Anynet+. |
| The Anynet+ device does not play. | • You cannot use the play function when **Plug & Play** (initial setup) is in progress. |
| The connected device is not displayed. | - Check whether or not the device supports Anynet+ functions.  
- Check whether or not the HDMI cable is properly connected.  
- Check whether **Anynet+ (HDMI-CEC)** is set to **On** in the Anynet+ setup menu.  
- Search Anynet+ devices again.  
- Anynet+ requires an HDMI connection. Make sure the device is connected to your TV with an HDMI cable.  
- Some HDMI cables may not support Anynet+ functions.  
- If the connection is terminated because there has been a power failure or the HDMI cable has been disconnected, please repeat the device scan. |
| The TV sound is not output through the receiver. | - Connect the optical cable between TV and the receiver.  
- The ARC function enables digital output of sound using the **HDMI IN 2(ARC)** port and can only be operated when the TV is connected to an audio receiver that supports the ARC function. |
## TroubleShooting

If your TV seems to have a problem, first review this list of issues and solutions. If none of these troubleshooting tips apply, please visit “www. samsung.com,” and then click on Support, or contact the Samsung call center.

<table>
<thead>
<tr>
<th>Issues</th>
<th>Solutions and Explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picture Quality</td>
<td>First, perform the <strong>Picture Test</strong> and to see if your TV is properly displaying the test image.</td>
</tr>
<tr>
<td></td>
<td>- Go to <strong>MENU - Support - Self Diagnosis - Picture Test</strong></td>
</tr>
<tr>
<td></td>
<td>If the test image is properly displayed, the poor picture may be caused by the source or signal.</td>
</tr>
<tr>
<td>Issues</td>
<td>Solutions and Explanations</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>The TV image does not look as good as it did in the store.</td>
<td>• Store displays are all tuned to digital, HD (high definition) channels.</td>
</tr>
<tr>
<td></td>
<td>• If you have an analog cable/set top box, upgrade to a digital set top box. Use HDMI or Component cables to deliver HD (high definition) picture quality.</td>
</tr>
<tr>
<td></td>
<td>• Cable/Satellite subscribers: Try HD channels from the channel line up.</td>
</tr>
<tr>
<td></td>
<td>• Air/Cable Antenna connection: Try HD channels after performing an Auto program.</td>
</tr>
<tr>
<td></td>
<td>📢 Many HD channels are up scaled from SD (Standard Definition) contents. Look for a channel that is broadcasting true HD content.</td>
</tr>
<tr>
<td></td>
<td>• Adjust the Cable/Sat box video output resolution to 1080i or 720p.</td>
</tr>
<tr>
<td>The picture is distorted: macro block error, small block, dots, pixelization</td>
<td>• The compression of video contents may cause picture distortion especially in fast moving pictures such as sports and action movies.</td>
</tr>
<tr>
<td></td>
<td>• A weak or bad quality signal can cause picture distortion. This is not a TV issue.</td>
</tr>
<tr>
<td></td>
<td>• Mobile phones used close to the TV (within 3.3 ft) may cause noise in the picture on analog and digital channels.</td>
</tr>
<tr>
<td>Issues</td>
<td>Solutions and Explanations</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Color is wrong or missing.</td>
<td>• If you’re using a Component connection, make sure the component cables are connected to the correct jacks. Incorrect or loose connections may cause color problems or a blank screen.</td>
</tr>
<tr>
<td>The color is poor or the picture is not bright enough.</td>
<td>• Adjust the Picture options in the TV menu (go to Picture Mode / Color / Brightness / Sharpness)</td>
</tr>
<tr>
<td></td>
<td>• Adjust the Energy Saving option in the TV menu (go to MENU – System – Eco Solution – Energy Saving)</td>
</tr>
<tr>
<td></td>
<td>• Try resetting the picture to view the default picture settings (go to MENU - Picture - Reset Picture)</td>
</tr>
<tr>
<td>Issues</td>
<td>Solutions and Explanations</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>There is a dotted line on the edge of the screen.</td>
<td>• If the picture size is set to <strong>Screen Fit</strong>, change it to <strong>16:9</strong>.</td>
</tr>
<tr>
<td></td>
<td>• Change the cable/satellite box resolution.</td>
</tr>
<tr>
<td>The picture is black and white.</td>
<td>• If you are using an AV composite input, connect the video cable (yellow) to the Green jack of Component Input 1 on the TV.</td>
</tr>
<tr>
<td>When changing channels, the picture freezes or is distorted or delayed.</td>
<td>• If the TV is connected to a cable box, try to reset the box. (Disconnect and then reconnect the AC cord and wait until the cable box reboots. It may take up to 20 minutes.)</td>
</tr>
<tr>
<td></td>
<td>• Set the output resolution of the cable box to 1080i or 720p.</td>
</tr>
<tr>
<td>Issues</td>
<td>Solutions and Explanations</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| The 3D Active Glasses are not working correctly | • Make sure the glasses are turned on.  
• The 3D Active Glasses may not work properly if there is any other 3D product or electronic devices turned on near the glasses or TV.  
• If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses. |
| The 3D images don’t look quite right      | • The ideal viewing distance is three times or more the height of the screen.  
• We also recommend sitting with viewer’s eyes on a level with the screen                                                                                   |
<p>| The batteries in the 3D glasses don’t last | • Turn off 3D glasses while not using them. If you leave 3D glasses on, battery lifespan is shortened                                                      |</p>
<table>
<thead>
<tr>
<th>Issues</th>
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</tr>
</thead>
<tbody>
<tr>
<td>Sound Problem</td>
<td>First, perform the Sound Test to determine if your TV audio is operating properly.</td>
</tr>
<tr>
<td></td>
<td>• Go to <strong>MENU - Support - Self Diagnosis - Sound Test</strong></td>
</tr>
<tr>
<td></td>
<td>If the audio is <strong>OK</strong>, the sound problem may caused by the source or signal.</td>
</tr>
<tr>
<td>There is no sound or the sound is too low</td>
<td>• Please check the volume of the device (Cable/Sat Box, DVD, Blu-ray etc.) connected to your TV.</td>
</tr>
<tr>
<td>Issues</td>
<td>Solutions and Explanations</td>
</tr>
<tr>
<td>--------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
</tbody>
</table>
| The picture is good but there is no sound. | • Set the **Speaker Select** option to **TV Speaker** in the **Sound** menu.  
• If you are using an external device, check the device’s audio output option. (Ex. You may need to change your cable box’s audio option to HDMI if you have the box connected to your TV using an HDMI cable.)  
• If you are using a DVI to HDMI cable, a separate audio cable is required.  
• If your TV has a headphone jack, make sure there is nothing plugged into it.  
• Reboot the connected device by disconnecting, and then reconnecting device’s power cable.                                                                 |
| The speakers are making an inappropriate noise. | • Check cable connections. Make sure a video cable is not connected to an audio input.  
• For antenna or cable connections, check the signal information. A low signal level may cause sound distortion.  
• Perform the **Sound Test** as explained on a previous page. |
<table>
<thead>
<tr>
<th>Issues</th>
<th>Solutions and Explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>RF (Cable/Antenna) Connection</td>
<td>• Make sure the coaxial cable is connected securely.</td>
</tr>
<tr>
<td>• The TV is not receiving all channels.</td>
<td>• Run <strong>Auto Program</strong> to add available channels to the channel list. Go to <strong>MENU - Channel - Auto Program</strong> then select Auto and make sure to select the correct Cable TV signal type. There are 3 options, STD, HRC and IRC. Most cable systems use STD.</td>
</tr>
<tr>
<td>• Verify the antenna is positioned correctly.</td>
<td></td>
</tr>
<tr>
<td>No caption on digital channels.</td>
<td>• Check the Caption Setup menu. Try changing <strong>Caption Mode Service1</strong> to <strong>CC1</strong>.</td>
</tr>
<tr>
<td>• Some channels may not have caption data.</td>
<td></td>
</tr>
<tr>
<td>The picture is distorted: macro block error, small block, dots, pixelization.</td>
<td>• The compression of video contents may cause picture distortion, especially with fast moving pictures such as sports and action movies.</td>
</tr>
<tr>
<td>• A weak signal can cause picture distortion. This is not a TV problem.</td>
<td></td>
</tr>
<tr>
<td>Issues</td>
<td>Solutions and Explanations</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td><strong>PC Connection</strong></td>
<td></td>
</tr>
<tr>
<td>A “Mode Not Supported” message appears.</td>
<td>• Set your PC’s output resolution so it matches a resolution supported by the TV.</td>
</tr>
<tr>
<td>“PC” is always shown on the source list, even if a PC is not connected.</td>
<td>• This is normal. “PC” is always shown in the source list, regardless of whether a PC is connected.</td>
</tr>
<tr>
<td>The video is OK but there is no audio.</td>
<td>• If you are using an HDMI connection, check the audio output setting on your PC.</td>
</tr>
<tr>
<td><strong>Network Connection</strong></td>
<td></td>
</tr>
<tr>
<td>The wireless network connection failed.</td>
<td>• The Samsung Wireless USB dongle is required to use a wireless network.</td>
</tr>
<tr>
<td></td>
<td>• Make sure the Network Connection is set to <strong>Wireless</strong>.</td>
</tr>
<tr>
<td></td>
<td>• Make sure the TV is connected to a wireless IP sharer (router).</td>
</tr>
<tr>
<td>Software Upgrade over the network fails.</td>
<td>• Run <strong>Network Test</strong> in <strong>Network</strong> menu to confirm the connection.</td>
</tr>
<tr>
<td></td>
<td>• If you have latest Software (SW) version, SW upgrade will not proceed.</td>
</tr>
<tr>
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<td>Solutions and Explanations</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Purple/green rolling horizontal bars and buzzing noise from the TV speakers with a Component cable connection.</td>
<td>• Remove the left and right audio connections from the set-top-box. If the buzzing stops, this indicates that the set-top-box has a grounding issue. Replace the Component video cables with an HDMI connection.</td>
</tr>
</tbody>
</table>
| The picture won’t display in full screen.                            | • HD channels will have black bars on either side of the screen when displaying up scaled SD (4:3) contents.  
• Black bars will appear on the top and bottom of the screen when you watch movies that have aspect ratios different from your TV.  
• Adjust the picture size options on your external device or the TV to full screen. |
| A “Mode Not Supported” message appears.                             | • Check the supported resolution of the TV, and adjust the external device’s output resolution accordingly. Refer to the resolution settings on User manual.  
• The external device’s Caption function must also be activated |
| Caption on TV menu is greyed out.                                   | • You cannot select the Caption menu if you have selected a source connected to the TV via HDMI or Component.  
• The external device’s Caption function must also be activated. |
<table>
<thead>
<tr>
<th>Issues</th>
<th>Solutions and Explanations</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is a plastic smell from the TV.</td>
<td>• This smell is normal and will dissipate over time.</td>
</tr>
<tr>
<td>The TV <strong>Signal Information</strong> is unavailable in the <strong>Self Diagnosis</strong> menu.</td>
<td>• This function is only available for digital channels the TV receives from an Antenna / RF/Coax connection.</td>
</tr>
<tr>
<td>The TV is tilted to the side.</td>
<td>• Remove the base stand from the TV and reassemble it.</td>
</tr>
<tr>
<td>The channel menu is greyed out (unavailable).</td>
<td>• The <strong>Channel</strong> menu is only available when you select the TV source.</td>
</tr>
<tr>
<td>Your settings are lost after 30 minutes or every time the TV is turned off.</td>
<td>• If the TV is in the <strong>Store Demo</strong> mode, it will reset audio and picture settings every 30 minutes. Change the settings from <strong>Store Demo</strong> mode to <strong>Home Use</strong> mode using the <strong>Plug &amp; Play</strong> procedure. Press the <strong>SOURCE</strong> button to select <strong>TV</strong> mode, and go to <strong>MENU → System → Plug &amp; Play → ENTER</strong>.</td>
</tr>
<tr>
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</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>----------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>You have intermittent loss of audio or video.</td>
<td>• Check the cable connections and reconnect them.</td>
</tr>
<tr>
<td></td>
<td>• Loss of audio or video can be caused by using overly rigid or thick cables. Make sure the cables are flexible enough for long term use. If mounting the TV to a wall, we recommend using cables with 90 degree connectors.</td>
</tr>
<tr>
<td>You see small particles when you look closely at the edge of the frame of the TV.</td>
<td>• This is part of the product’s design and is not a defect.</td>
</tr>
<tr>
<td>The PIP menu is not available.</td>
<td>• PIP functionality is only available when you are using an HDMI, PC, or Component source.</td>
</tr>
<tr>
<td>POP (TV’s internal banner ad) appears on the screen.</td>
<td>• Select <strong>Home Use</strong> under <strong>Plug &amp; Play</strong> mode. For details, refer to the <strong>Plug &amp; Play</strong> Feature.</td>
</tr>
</tbody>
</table>
Anti-theft Kensington Lock

A Kensington Lock is a device you can use to physically fix your TV in place when using it in a public place. You wrap the Kensington Lock’s cable around a large, immobile object and then attach the lock to the Kensington slot on the back of the TV.

The appearance and locking method may differ from the illustration below depending on the manufacturer. Refer to the manual provided with the Kensington Lock for additional information on proper use. The Kensington Lock is not supplied by Samsung.

Please find a “Ќ” icon on the rear of the TV. The Kensington slot is beside the “Ќ” icon.
To lock the product, follow these steps:

1. Wrap the Kensington Lock cable around a large, stationary object such as desk or chair.

2. Slide the end of the cable with the lock attached through the looped end of the Kensington Lock cable.

3. Insert the locking device into the Kensington slot on the product. 

4. Lock the lock.

These are general instructions. For exact instructions, see the User manual supplied with the locking device.

The locking device has to be purchased separately.

The location of the Kensington slot may be different depending on the TV model.
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ABOUT DIVX VIDEO-ON-DEMAND: This DivX Certified® device must be registered in order to play purchased DivX Video-on-Demand (VOD) movies. To obtain your registration code, locate the DivX VOD section in your device setup menu. Go to vod.divx.com for more information on how to complete your registration.

Covered by one or more of the following U.S. patents: 7,295,673; 7,460,668; 7,515,710; 7,519,274

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