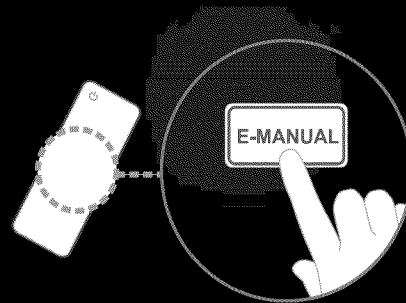SAMSUNG

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Model _____ Serial No. _____

Contents

❏ 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.

SMART HUB

Search

Samsung Apps

Recommended

Favorites   Channel   Web Browser   Videos   Photos   Music

Schedule Ma...   Source

Login   Sort by   Edit Mode   Settings
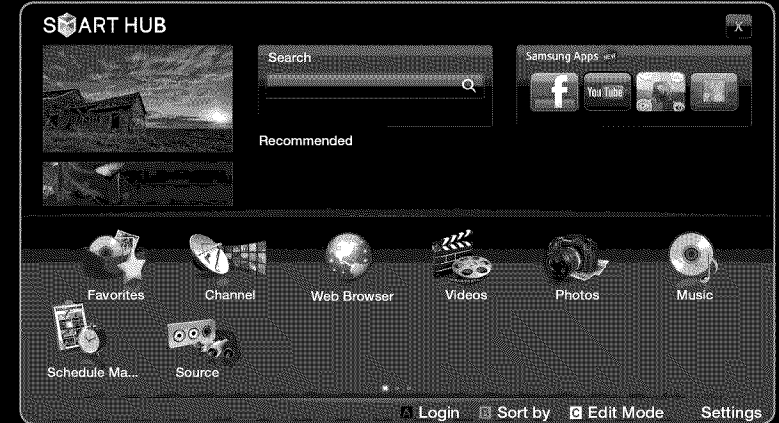
● The displayed image may differ depending on the model.

▣ 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**E 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.

  N 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.

  N The ✓ mark indicates a day you selected.

  Date: You can set a desired date.

  N **Date** is available only when you select **Once** in **Repeat**.

- **Start Time**: You can set the start time you want.

  🖉 You can only select memorized channels.

  🖉 On the **Information** screen, you can change or cancel a scheduled viewing.

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

- **Edit**: Change a 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.

| Channel List |
| Added Channels |
6	Air
6-1	TV #6
7	Air
8	Air
9	Air
No Information
9-2	TV #10
9-3	TV #11
9	Air
10-1	TV #12
10-2	TV #13
10	Air
11	Air

Air   Antenna 🄲 Program View ◀▶ Ch.Mode ⎘ Watch ↕ Page

● The displayed image may differ depending on the model.

- **Added Channels**: Shows all added channels.

- **Favorites 1-5**: Shows 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 **Edit 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 **Edit 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

Icon	Operations
A	An analog channel.
◷	A reserved program.

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 **C** (**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.

Channel

All Channels

6	Air		10	Air
6-1	TV #6		10-1	TV #13
7	Air		10-2	TV #14
8	Air		11	Air
9	Air		12	Air
9-1	TV #9		13	Air
9-2	TV #10		13-1	TV #15
9-3	TV #11		14	Air
9-4	TV #12		15	Air

Added Ch.

- 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 [icon] **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 **ENTER** E.

 ⌨ The **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 **OK**, press **ENTER** E, and then press **ENTER** E again.

6. Press **ENTER** E again to exit **Edit Mode**.

- Using **Edit Mode** to Delete a Channel from the Channel List

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

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

  3. Press the ◀ / ▶ / ▲ / ▼ buttons to select a channel, 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.

◀   ▶

4. Select **OK**, press **ENTER**↵, and then press **ENTER**↵ again. The channel is deleted from the **Channel** list.

5. Press **ENTER**↵ again to exit **Edit Mode**.

   ✎ The Deselect function that appears with the Delete function lets you deselect all selected channels.

◀   ▶

English

N **Using the TOOLS button with Channel**

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

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

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

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

3. Press the **TOOLS** button.

4. 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 Ch.**, and then press **ENTER** ⏎.

    ▨ **Added Ch.** will be at the very top or bottom of the screen.

2. On the **Added Ch.** screen, select a channel.

3. Press the **TOOLS** button.

4. Select **Delete** on the **TOOLS** menu, press **ENTER** ⏎, 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 Channels** 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.

◀   ▶

English

- **Edit Favorites**: Setting channels you watch frequently as favorites.

  To set channels as favorites, follow these steps:

  1. Highlight a channel in the **Added Ch.** 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 (Favorites 1, Favorites 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** buton.

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

  1. Highlight a favorite channel in the **Added Ch.** 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

Icon	Operations
A	An analog channel.
✓	A selected channel.
★	A favorite channel

❏ **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 change 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.

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 above, 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** 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 check 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**E, and then press **ENTER**E again. The channel is deleted from **Favorites**.

5. Press **ENTER**E again to exit **Edit Mode**.

  N The Deselect function that appears with the Delete function lets you deselect all selected channels.

  N If you have assigned a channel to more than one favorite group (say Favorite 1 and Favorite 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) `TOOLS🔧`

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.

◀   ▶

English

■ **Auto Program**

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

To start **Auto Program**, follow these steps:

1. Push **MENUⅢ** → **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

ℱ MENU▥ → Channel → ENTER↵

■ Clear Scrambled Channel

This function filters out scrambled channels after **Auto Program** is completed. This process may take up to 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 Mode** 〔TOOLS�㲍〕

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** 〔for LED TV〕 / **Relax** 〔for PDP TV〕: 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** for **LED TV** / **Cell Light** for **PDP TV** / **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**↵.

◀ ▶

N When you make changes to **Backlight / Cell Light, Contrast, Brightness, Sharpness, Color** or **Tint (G/R)**, the OSD will be adjusted accordingly.

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

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

N Lowering picture brightness reduces power consumption.

◀ ▶

❏ Changing the Picture Size

O MENU Ⅲ → Picture → Screen Adjustment → ENTER ⏎

◼ Screen Adjustment

Screen Adjustment provides various picture size and aspect ratio options. Select an option using the ▲ and ▼ 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.

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

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

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%. for **LED TV**

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

✎ **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**.

N To use the **Position** function after selecting **Zoom1, Zoom2** or **Wide Fit**, follow these steps:

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**.

◀   ▶

N 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.

◄ N 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:

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
HDMI (720p, 1080i, 1080p)	Smart View 1
DTV(1080i), HDMI (720p, 1080i, 1080p)	Smart View 2
DTV(1080i), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, 4:3, Wide Fit, Screen Fit
PC	16:9, 4:3

◄ ►

❏ 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**↵.

◀   ▶

Advanced Settings	
Black Tone	Off
Dynamic Contrast	Off
Gamma	0
Expert Pattern	Off
RGB Only Mode	Off
Color Space	Native
White Balance	
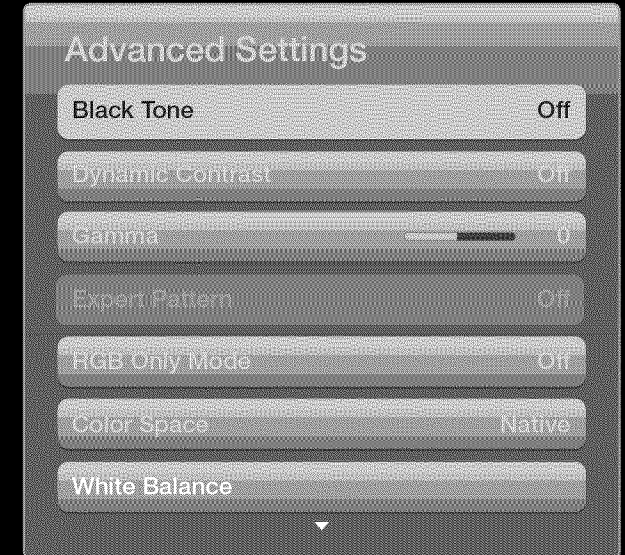
● The displayed image may differ depending on the model.

- **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)** for LED 7000 Series and above : 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** screen 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.

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

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

N 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 it's default settings.

◀   ▶

- **10p White Balance (Off / On)**: Controls the white balance in 10 point intervals by adjusting the red, green, and blue brightness.

  N Available when the picture mode is set to **Movie** and when the external input is set to all input.

  N 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 **Backlight** (for **LED TV**) **/ Cell Light** (for **PDP TV**), **Contrast** or **Brightness**, the TV sets **Motion Lightning** to **Off**.

◀   ▶

- **xvYCC (Off / On)**: Setting **xvYCC** on increases picture detail and enlarges the color space when your 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)** for LED 7000 and 7050 Series : Removes blur and judder from scenes with large amounts of rapid movement to provide a clearer picture.

- **LED Motion Plus (Off / Normal / Cinema / Ticker)** for LED 7900 and 8000 Series : Removes blur and judder from scenes with large amounts of rapid movement to provide a clearer picture.

■ Picture Options

⊕ MENU▥ → Picture → Picture Options → ENTER⏎

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

Picture Options	
Color Tone	Standard
Digital Noise Filter	Auto
MPEG Noise Filter	Auto
HDMI Black Level	Normal
Film Mode	Off
Auto Motion Plus	Standard
Smart LED	Standard
▼	

● 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.

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

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

  N Only available for analog channels.

  N 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 (Low / Normal)**: Lets you adjust the screen depth by selecting a black level.

  ✎ Available only in HDMI mode.

- **Film Mode (Off / Auto1 / Auto2 / Cinema Smooth** `for PDP TV`**)**: 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)** For LED TV : Removes blur and Translate from scenes with larger 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 Translate reduction level for signals input from a video source through which you are playing a movie.

Reset: Reset the custom settings.

- **Smart LED (Off / Low / Standard / High / Demo)** for LED 7900 and 8000 Series : Controls the LED backlight to maximize picture clarity.

  Demo: Displays the difference between **Smart LED** on and off modes.

- **Cinema Black (Off / On)** for LED 7900 and 8000 (46~55 inches) Series : More immersive viewing for cinema resolution by dimming control.

■ **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 `TOOLS🠪`

Ⓜ **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.

2. Click "Appearance and Themes" in the "Control Panel" window. A display dialog-box appear.

3. Click "Display". Another display dialog box appears.

4. Click the 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 (**TOOLS**🎜)

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 → 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)** [TOOLS↵] : 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 (Off / Low / Medium / High)**

3D audio technology provides the immersive sound corresponding to the pop-up effect of 3D video by audio depth control in perspective.

NN Available only when watching 3D image.

■ 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)** (TOOLS🖉)

  (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.

  ✎ Depending on the program being broadcast, you can listen to **Mono, Stereo**, or **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 (PCM / Dolby Digital)**: 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. User 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**.

◀   ▶

✎ NOTE

- 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.

  - N 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 **On**.

◀   ▶

■ **Reset Sound (Yes / No)**

Reset all sound settings to the factory defaults. Select **Reset Sound**, press **ENTER**⏎, select **Yes** in the pop-up, and then press **ENTER**⏎ again.

◀

▶

❏ Wired Network Setting

■ 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.

The Modem Port on the Wall

External Modem
(ADSL / VDSL / Cable TV)

LAN

LAN

Modem Cable
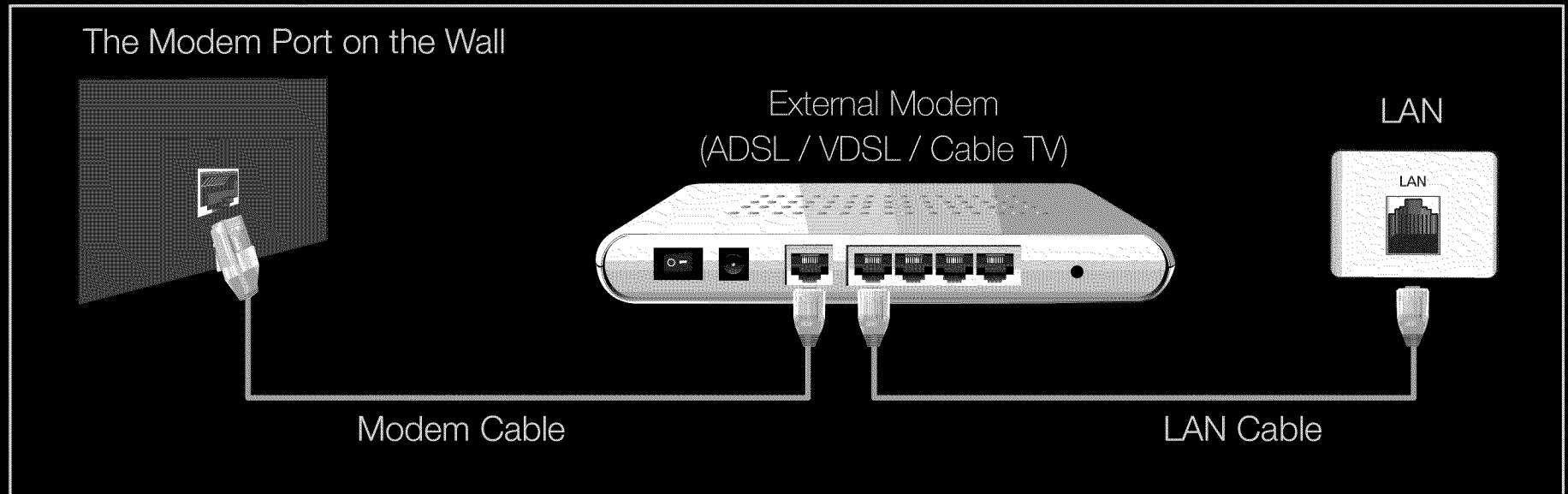
LAN Cable

- 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.

The Modem
Port on the Wall

LAN

External Modem
(ADSL / VDSL / Cable TV)

IP Sharer
(having DHCP server)

LAN

Modem Cable   LAN Cable   LAN Cable

◀

▶

English
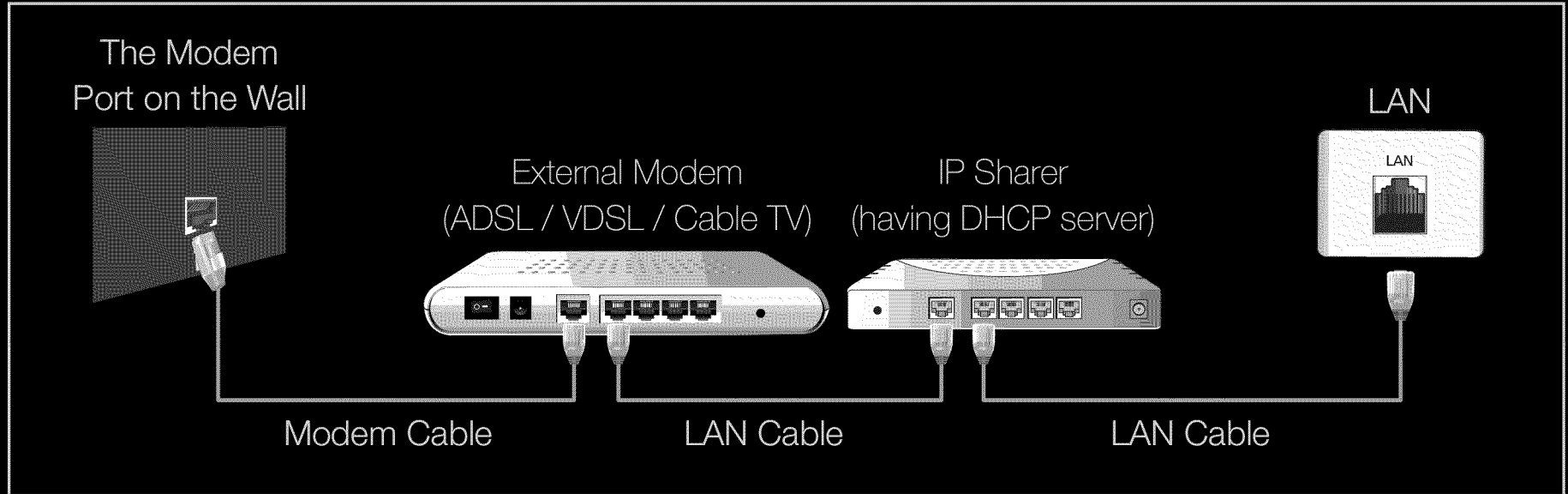
- Depending on how your network is configured, you may be able to attach your TV to your LAN by connecting the LAN port on the back of your TV directly to a network wall outlet using a LAN cable. See the diagram below. Note that the wall outlet is attached to a modem or router elsewhere in your house.

The LAN Port on the Wall

LAN

LAN

LAN Cable
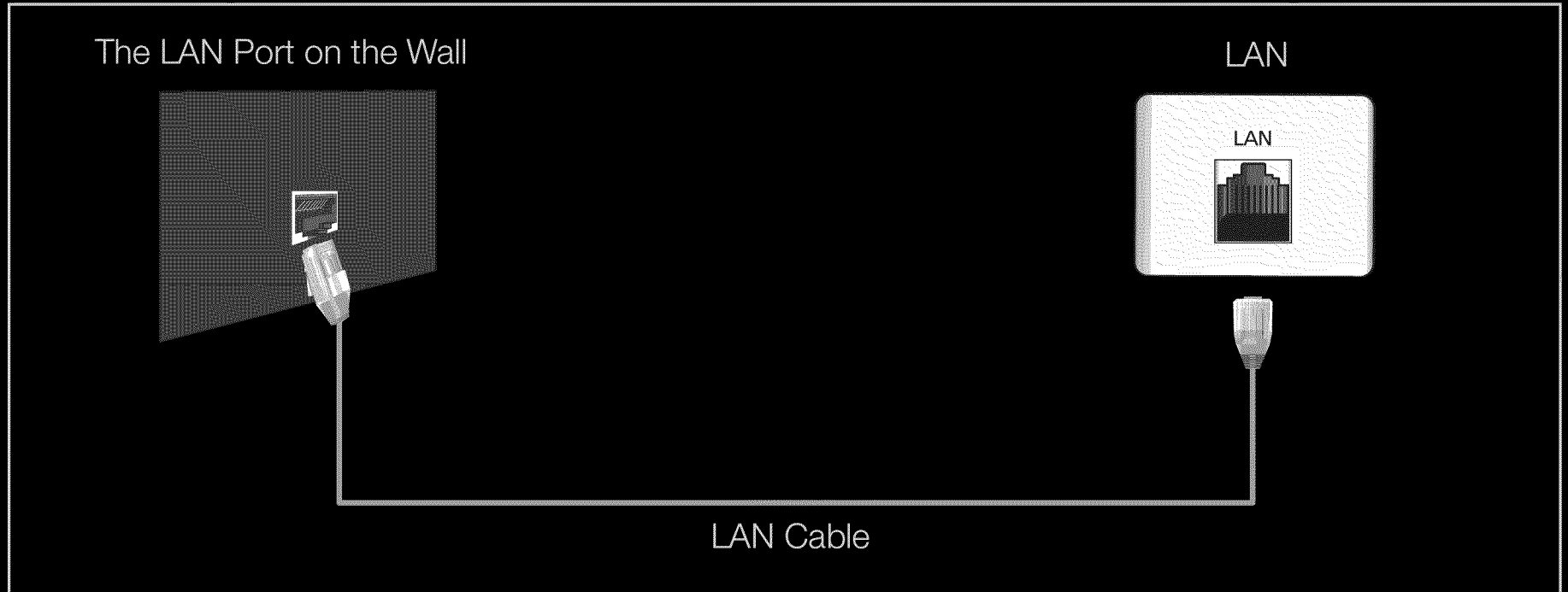
- If you have a Dynamic Network, you should use an ADSL modem or router that supports the Dynamic Host Configuration Protocol (DHCP). Modems and routers that support DHCP automatically provide the IP address, subnet mask, gateway, and DNS values your TV needs to access the Internet so you do not have 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.

■ **SWL (Samsung Wireless Link)**

🗋 **MENU**▥ → **Network** → **SWL (Samsung Wireless Link)** → **ENTER**⏎

You can connect your TV to a wireless mobile device easily. For details on set up options, refer to the "Wireless Network Connection" 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.

Network Settings

Select a network connection type.

- ● Wired
- ● Wireless (General)
- ● WPS(PBC)
- ● One Foot Connection

Connect to the network using LAN cable. Please make sure that the LAN cable is connected.

Previous

Next

Cancel
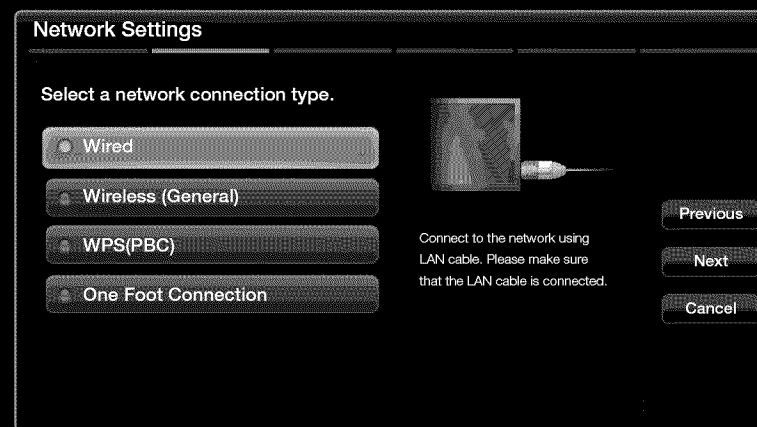
● The displayed image may differ depending on the model.

✎ 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 secton, Manual Network Setup.

Network Setting

Wired network and Internet connection completed.

MAC Address	00:12:fb:2b:56:4d
IP Address	192.168.11.4
Subnet Mask	255.255.255.0
Gateway	192.168.11.1
DNS Server	192.168.11.1

Anterior
Ajustes IP
Reinte.
OK

Internet se conectó correctamente.
Si tiene algún problema con el uso del servicio de Internet, comuníquese con su proveedor de servicios de Internet.

● The displayed image may differ depending on the model.

■ **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**
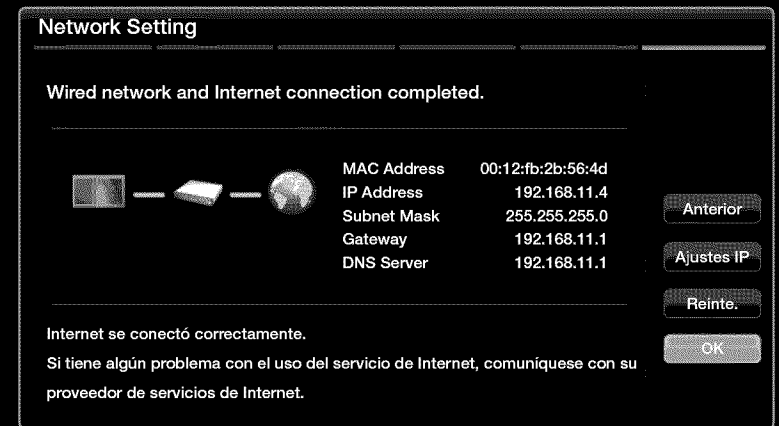   → **ENTER**⏎)

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

3. Press **ENTER**⏎. The verification process stops. Select **IP Setting** on network connection screen. The **IP Settings** screen appears.

◀   ▶

IP Settings	
IP Mode	Manual
IP Address	0 . 0 . 0 . 0
Subnet Mask	0 . 0 . 0 . 0
Gateway	0 . 0 . 0 . 0
DNS Mode	Manual
DNS Server	0 . 0 . 0 . 0

OK
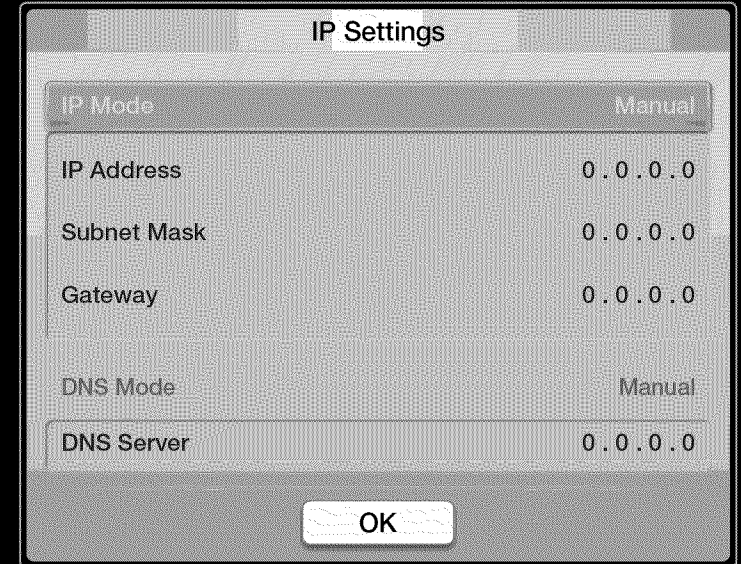
● The displayed image may differ depending on the model.

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 Setting

■ Connecting to a Wireless Network

You can connect your TV to your LAN through a standard wireless router or modem.

The LAN Port on the Wall

Wireless IP sharer
(router having DHCP server)

TV

LAN Cable
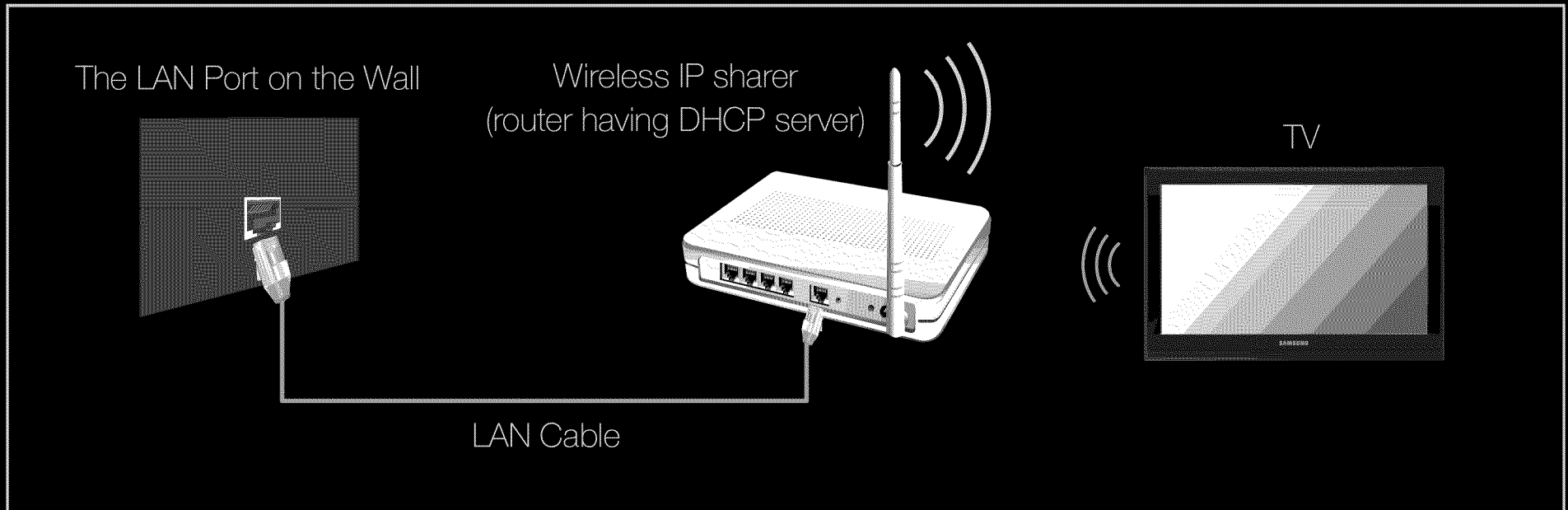
This TV supports the IEEE 802.11a/b/g and n communication protocols. Samsung recommends using IEEE 802.11n. When you play video over a IEEE 802.11b/g connection, the video may not play smoothly.

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 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. Connection Methods: You can set up the wireless network connection in six ways:

  - Auto Setup (Using the Auto Network Search function)

  - Manual Setup

  - **WPS(PBC)**

  - **One Foot Connection**

  - **Plug & Access**

  - **SWL (Samsung Wireless Link)**

■ 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 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.

Network Settings

Select a network connection type.

- Wired
- Wireless (General)
- WPS(PBC)
- One Foot Connection

Set up wireless network by
selecting your Wireless Router.
You may need to enter security key
depending on the setting of the
Wireless Router.

Previous

Next

Cancel
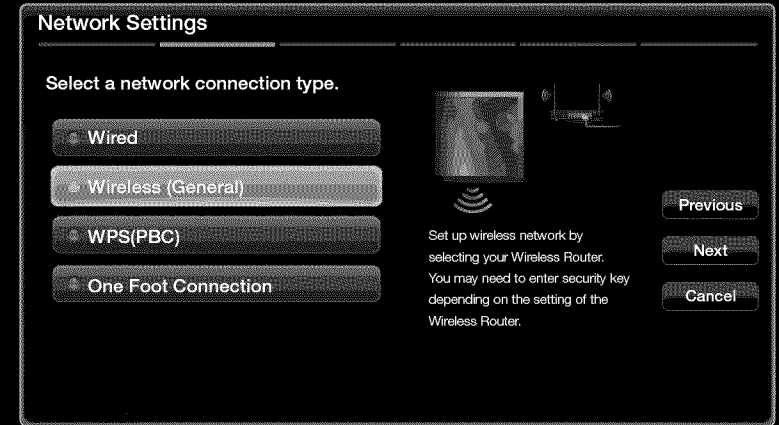
● The displayed image may differ depending on the
  model.

5. If the Enter 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 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** ⏎.

Network Settings   4/6

Enter security key
                                                      0 entered

a   b   c   d   e   f   1   2   3   Previous
g   h   i   j   k   l   4   5   6   Next
m   n   o   p   q   r   7   8   9   Cancel
s   t   u   v   w   x   y   z   0

a/A   ★   Delete   Space
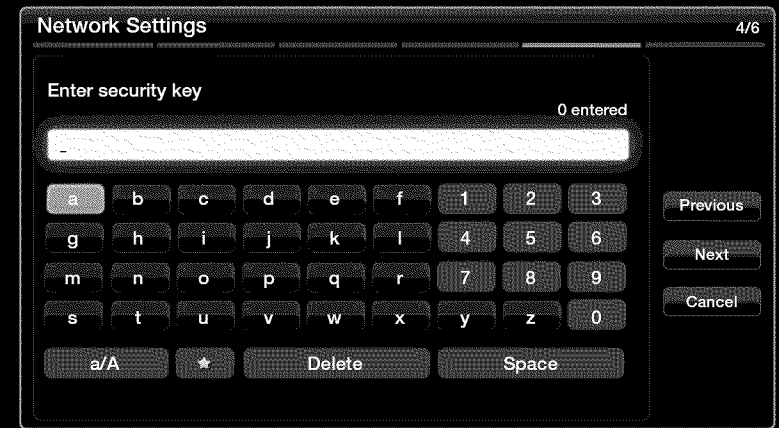
● The displayed image may differ depending on the model.

8. The network connection screen appears and the verification process starts. When the connection has been verified, the "Internet connection successful." message appears.

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

   N 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 **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.

IP Settings

IP Mode	Manual
IP Address	0 . 0 . 0 . 0
Subnet Mask	0 . 0 . 0 . 0
Gateway	0 . 0 . 0 . 0
DNS Mode	Manual
DNS Server	0 . 0 . 0 . 0

OK

● 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**E button twice.

   N 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.

5. If the Enter Security key screen appears, go to step 6. If you selected an wireless router that does not have security, go to step 8.

◀   ▶

6. Enter the Security key (Security key or PIN).

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

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

    N 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**E button.

8. The network connection screen appears and the verification process starts. Press **ENTER**↵ to cancel. Select **IP Settings** 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**.

    N 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**ⅲ → **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.

Network Settings

Select a network connection type.

- Wired
- Wireless (General)
- WPS(PBC)
- One Foot Connection

Previous

Connect to the Wireless Router
easily by pressing the WPS(PBC)
button. Choose this if your
Wireless Router supports Push
Button Configuration(PBC)

Next

Cancel

- The displayed image may differ depending on the model.

■ **Ad Hoc Network Setup**

You can connect to a mobile device supporting Ad-hoc connections without a wireless router or AP through the TV. When connected to a mobile device, you can use files on the device or connect to the Internet using the AllShare or Multimedia function.

✎ This function is available when **SWL (Samsung Wireless Link)** is set to **Off**.

How to set up using Ad hoc

◀ 1. Go to **Network Settings** screen. (**MENU**m → Network → **Network Settings** → **ENTER**E). ▶

2. Select **Wireless (General)**, and press **ENTER**E, then press **ENTER**E 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. Other network services may be limited. 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 finishes searching for your mobile device, input the generated **Network Name (SSID)** and **Security Key** into the device you want to connect and then connect to the network

   ◀ ▶

   ✎ 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.

■ SWL (Samsung Wireless Link)

This function lets you connect a Samsung device that supports **WPS(PBC)** to your TV wirelessly. You can connect devices to the TV even if the TV is not connected to a sharer (a router or modem).

N For the TV to use **Smart Hub**, you must have an AP (the access point, usually a router or modem) and the AP must be connected to a wireless network.

N Only sharers using the 2.4 Ghz band are supported. Sharers using the 5 Ghz band are not supported.

◀ ▶

■ **Connect Using SWL**

You can connect a device that supports **WPS(PBC)** directly to the TV.

⊠ This function is only available when you set **SWL (Samsung Wireless Link)** to **On**.

How to connect using Samsung Wireless Link

To connect a device to the TV using SWL, follow these steps:

1. Go to the **Network Settings** screen. (**MENU▥** → **Network** → **SWL (Samsung Wireless Link)** → **ENTER**◄┘).

2. Select **SWL (Samsung Wireless Link)**, and then press **ENTER**◄┘ button to turn it **On**.

3. Select **Connect SWL** by using the ▼ button and press the **ENTER**↵ button.

4. If the "**Press the WPS(PBC) button on your Wireless Router within 120 seconds.**" message appears, press the WPS(PBC) button on the device you want to connect. A countdown timer also appears on the screen.

   ✎ For more information, refer to the wireless network setup manual of the device.

5. If the device connects properly to the TV, the message box with the countdown timer disappears automatically.

◀   ▶

✎ If the connection fails, please retry after 2 minutes.

■ **One Foot Connection Network Setup**

The **One Foot Connection** function lets you connect your Samsung TV automatically to a Samsung wireless routers. 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 Samsugn wireless router and the TV.

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

3. Select **One Foot Connection**, and press
   ENTER⏎, then press **ENTER**⏎ again.

Select a network connection type.

- Wired
- Wireless (General)
- WPS(PBC)
- One Foot Connection

Previous

Next

Cancel

Connect to wireless network
automatically if your Wireless
Router supports One Foot
Connection. Select this
connection type after placing
the Wireless Router within 10
inches(25cm) of your TV.
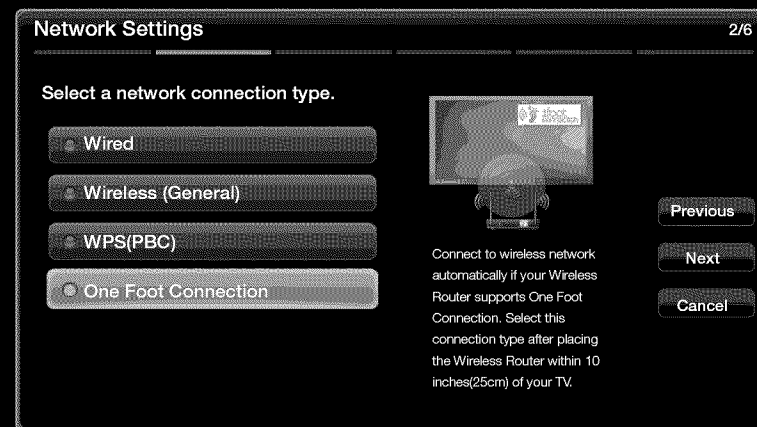
● The displayed image may differ depending on the model.

4. Place the wireless router in parallel with your TV set (if you do not need to use the adapter), and no farther away than 25cm (about 9 3/4 inches).

   N If **One Foot Connection** does not connect your TV to your Router, a pop-up screen appears on the screen notifying you of the failure. If you want to try using **One Foot Connection** again, reset the wireless router, 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.

   N 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 wireless router 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.

◀　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　　▶

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 wireless router, a pop-up screen 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.

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.