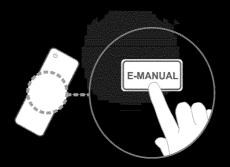


E-MANUAL



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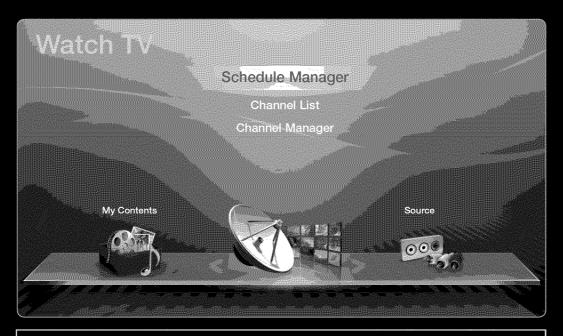
Model _____Serial No.____

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☐ Using the Channel Menu

Press the **CONTENT** button to select **Watch TV**, and then select the desired menu item. Choose from **Schedule Manager**, **Channel List**, and **Channel Manager**.



• The displayed image may differ depending on the model.

- Schedule Manager
 - CONTENT → Watch TV → Schedule Manager → ENTER →

To cancel or set **Timer Viewing**. **Timer Viewing** lets you display the channel you want at the time of your choice.

Using Timer Viewing

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

To use Timer Viewing, follow these steps:

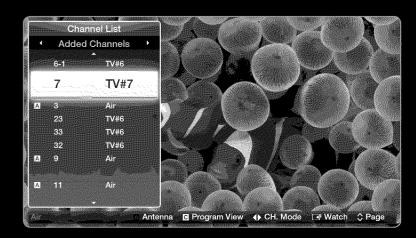
- 1. Press the ENTER button to add a scheduled viewing.
- Press the ◀ / ▶ / ▲ / ▼ buttons to set Antenna, Channel, Repeat, Date, and Start Time.
 - Antenna: Select the desired antenna source.
 - Channel: Select the desired channel.
 - Repeat: Select Once, Manual, Sat~Sun, Mon~Fri or Everyday. If you select Manual, you can set the day you want.

- 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.
- 2 You can only schedule memorized (added) channels.
- 2 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 **Channel** 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, the **Channel List** screen is displayed at once.
- Added Channels: Shows all added (memorized) channels.
- Favorites 1-5: Shows all favorite channels, arranged in up to five groups. Each group has a separate screen.



- The displayed image may differ depending on the model.
- The TV displays Favorites only if you have added favorites using Add to Favorites.

- ☑ 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. If you have favorites in more than one Favorite Group, press the ◆ (CH Mode) to view the other groups. Press the ◆ button to return to the Channel List.
- Using the colored and function buttons with the **Channel List**.
- Red (Antenna): Switches the mode and display between Air or Cable.
- C 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 Channel List.
- (Watch / Information): Press to watch the channel you selected / Displays details of the selected program.
- \$\frac{1}{2}\$ (Page): Scrolls the Channel List to the next or previous page.

Channel Status Display Icons

lcon	Description	
Α	An analog channel.	
©	A reserved program.	

How to use Timer Viewing in Channel List (digital channels only)

You can use **Timer Viewing** in **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. The Program List for that channel appears.
- 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 Manager

CONTENT → Watch TV → Channel Manager → ENTER

Using Channel Manager, you can add, edit, or delete Added and Favorite

channels. You can also add and edit channel names - for analog channels only.

- (Added Ch.: Shows all added channels.
- () All Channels: Shows all currently available channels. Includes channels that have not been added.



- The displayed image may differ depending on the model.
- (★) Favorites 1-5: Shows five favorite
 channels, arranged in up to five groups. Each group has a separate screen.
- Using the colored buttons with Channel Manager.
 - Red (Antenna): Switches between Air and Cable.
 - Blue (Sorting): Sorts the channel list by channel number or by channel name.

Using the Arrow buttons with Channel Manager

- 1. Highlight a channel in the first column on the left, and then press the Left arrow button. The Channel Manager sub-menu appears.
- 2. Use the Up or Down arrow buttons to select Added Ch., All Channels or Favorites 1 through 5, and then press ENTER or the Right arrow button. The cursor enters the screen you selected.
 - If you have no favorites in a Favorite Group, the cursor will not enter that screen.

Channel Status Display Icons

lcon	Description
Α	An analog channel.
✓	A selected channel.
*	A favorite channel.

Channel Manager Option Menu TOOLS 7

Manage channels using the **Channel Manager** menu options (**Watch**, **Add to Favorites** / **Edit Favorites**, **Channel Name Edit**, **Add / Delete**, **Deselect All**, **Select All**). The Option menu items that appear may differ depending on the channel status and type.

- 1. Use the arrow buttons to select a channel, and then press the **ENTER** button. A check appears next to the channel.

 - Pressing ENTER again deselects the channel.
- 2. Press the **TOOLS** button on your remote.
- **3.** Select an option, and then press **ENTER** to activate the option or change its settings.
 - Exceptions: Select All. See the end of the Channel Manager section for information.

Options

- Watch: Watch the channel you selected. To use, select Watch on the Option menu, and then press ENTER -.
- Add to Favorites / Edit Favorites: Add to Favorites appears if the channel you selected is not already a favorite. Edit Favorites appears if the channel you selected is already a favorite.

Using Add to Favorites to add a channel to the Favorites List:

- 1. Select Add to Favorites, and then press the ENTER button. The Add to Favorites screen appears.
- 2. The Add to 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, and then press ENTER .
- 3. Select OK, press ENTER →, and then press ENTER → again.

Using Edit Favorites to delete a channel from the Favorites List:

- 1. Select Edit Favorites, and then press the ENTER button. The Edit Favorites screen appears.
- 2. The Favorites Group you assigned the channel to is checked. Select the group, and then press **ENTER** . The check disappears.
- 3. Select OK, press ENTER →, and then press ENTER → again.

Using Edit Favorites to move a channel from one Favorites Group to another:

- 1. Select Edit Favorites, and then press the ENTER button. The Edit Favorites screen appears.
- 2. The Favorites Group you assigned the channel to is checked. Select the group, and then press **ENTER** . The check disappears.
- 3. Use the Up or Down arrow key to highlight a different group, and then press ENTER . A check appears by the group's name.
- 4. Select **OK**, press **ENTER** , and then press **ENTER** again.

- Channel Name Edit (analog channels only): 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.
- Add / Delete: Add a channel to or delete a channel from the Channel List. When you use the Channel button on your remote to change channels, your TV only displays the channels on the Channel List.

Deleting a Channel from the Channel List:

- 1. Select **Delete**, and then press the **ENTER** button. The Delete pop-up appears.
- 2. Select **OK** on the pop-up, press **ENTER** , and then press **ENTER** again.

Adding a Channel to the Channel List:

- 1. Select a deleted channel on the All Channels list, and then press the ENTER button.
 - Deleted channels are grayed out.
- 2. Press the **TOOLS** button on your remote. The Options menu appears.
- 3. Select Add, press ENTER →, and then press ENTER → again.
- **MOTE**
 - Your TV will display all channels, including channels you deleted from the Channel List, on the All Channels list.
 - A gray-colored channel on the **All Channels** list indicates the channel has been deleted from the **Channel List**.
 - The Add menu only appears for deleted channels.

- Deselect All: Deselect all the selected channels.
 - You can only select **Deselect All** when you have selected one or more channels.
- Select All: Select all the channels in the channel list. To use, choose Select All in the Options menu, and then press ENTER . All channels are selected and a check appears by each channel. You can then apply one of the other options on the Options menu to all the selected channels.

□ Memorizing Channels

MENUШ → Channel → ENTER →

■ Antenna (Air / Cable) Tools 1

To select **Air** or **Cable**, follow these steps:

Your TV memorizes channels and adds the memorized channels to the **Channel List** with the **Auto Program** function. Before your TV can memorize channels, you must specify the signal source, either **Air** or **Cable**. If you select **cable**, when your 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**.

- 1. Push MENUШ → 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.
- 2 You can select both if you have both connected.

Auto Program

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

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

- 1. Push MENUШ → 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 Search or Next, and then press ENTER ...

- 5. If you selected **Cable**, the Cable System screen appears. Select **Digital**, and then press **ENTER**.
- If you selected Air only, Auto Program starts.
- 6. Select STD, HRC, or IRC, and then press ENTER →.
- 7. Repeat for Analog.
- 8. Select Search or 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.

How to Stop Auto Programming

- 1. Press the **ENTER** button.
- 2. A message will ask Stop Auto Program? Select Yes by pressing the ◀ or ▶ button.
- **3.** Press the **ENTER** button.

- □ Other Features
 - MENUШ → Channel → ENTER →
- Clear Scrambled Channel

This function is filters out scrambled channels after **Auto Program** is completed. This process may take up to 20~30 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

Picture Mode

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

- When connecting a PC, you can only select Entertain and Standard.
- Dynamic: Suitable for a bright room.
- Standard: Suitable for a normal environment.
- Movie: Suitable for watching movies in a dark room.
- Entertain (When connecting a PC): Suitable for watching movies and games.

- □ Adjusting Picture Settings
 - MENUШ → Picture → ENTER →
- Cell Light / 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 Cell Light, Contrast, Brightness, Sharpness, Color or Tint (G/R), the OSD will be adjusted accordingly.
 - When connecting a PC, you can only make changes to **Cell Light**, **Contrast**, **Brightness**, and **Sharpness**.
 - 2 You can adjust and store settings for each external device connected to the TV.
 - Lowering picture brightness reduces power consumption.

- ☐ Changing the Picture Size
- Screen Adjustment

Screen Adjustment provides various picture size and aspect ratio options. Select an option using the up and down arrow keys, and the 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.
 - **16:9**: Sets the picture to 16:9 wide screen 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 (4:3) mode. For analog TV programs.

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.

• **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:
 - 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.
 - ☑ If you want to reset the pictures to its original position, select Reset in the Position screen, and then press ENTER →. The picture will be reset to its default position.

- To use the **Position** function after selecting **Screen Fit** when connected to an HDMI (1080i/1080p) or Component (1080i/1080p) source, 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 pictures to its original position, select **Reset** in the **Position** screen. The picture will be set to its default position.

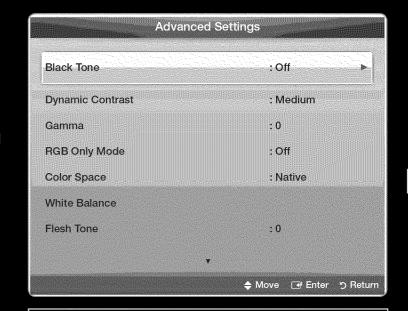
- HD (High Definition): 16:9 1080i / 1080p (1920x1080), 720p (1280x720)
- You can adjust and store settings for each external device you have connected to an input on the TV.
- Picture Sizes available by Input Source:

Input Source	Picture Size		
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3		
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 →

Advanced Settings are available in the Standard and Movie modes. When connecting a PC, you can only make changes to Gamma and White Balance. They are not available when you are watching a digital channel.

To use, select an option using the up and down arrow keys, and then press **ENTER**. Use the arrow keys to change a 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.
- **Gamma**: Adjusts the primary color intensity.
- RGB Only Mode (Off / Red / Green / Blue): Displays the Red, Green and Blue color for making fine adjustments to hue and saturation.

- Color Space (Auto / Native): Adjusts the range of colors (the color gamut) available to create images.
- 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.

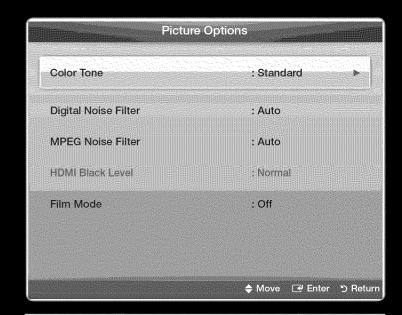
- Flesh Tone: Emphasizes pink "Flesh Tone."
 - Edge Enhancement (Off / On): Emphasizes object boundaries.
 - Motion Lighting (Off / On): Reduces power consumption by reducing screen brightness when the picture on the screen is in motion.

 - When you change the Contrast, the TV sets Motion Lightning to Off.

Picture Options

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**.

- When connecting a PC, 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 each option until the the TV displays the best picture.

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

- 2 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** (**Low / Normal**): Lets you select the black level on the screen to adjust the screen depth.
 - Available only in **HDMI** mode.
- Film Mode (Off / Auto1 / Auto2

/ Cinema Smooth for PDP 550 Series and above): 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 activated when the TV inputs an HDMI 24Hz signal.

Available in TV, AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).

Reset Picture (OK / Cancel)

Resets your current picture mode to its default settings.

☐ Using the TV with Your PC

Set the input source to PC.

- Auto Adjustment TOOLS 2
 - MENU
 → Picture → Auto Adjustment → ENTER
 → ENTER

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

- Available in **PC** mode only.
- Mot 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 to 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 into your PC.

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. On your PC, click "Control Panel" on the Windows start menu.
- 2. Click "Appearance and Themes" in the "Control Panel" window, A display dialogbox appears.
- 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.
 - 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

■ Sound Mode TOOLS 2

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
- Sound Effect
 - If Speaker Select is set to External Speaker, Sound Effect is disabled.
 - SRS TruSurround HD (Off / On)

(standard sound mode only)

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)

(standard sound mode only)

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 press **ENTER** again. 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.

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).

2 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

The SPDIF (Sony Philips Digital InterFace) outputs an uncompressed digital audio signal when you connect the digital audio jack on the back of the TV to a digital audio in jack on a receiver or home theater.

- 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. 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**.

- 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 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.

Reset Sound (OK / Cancel)

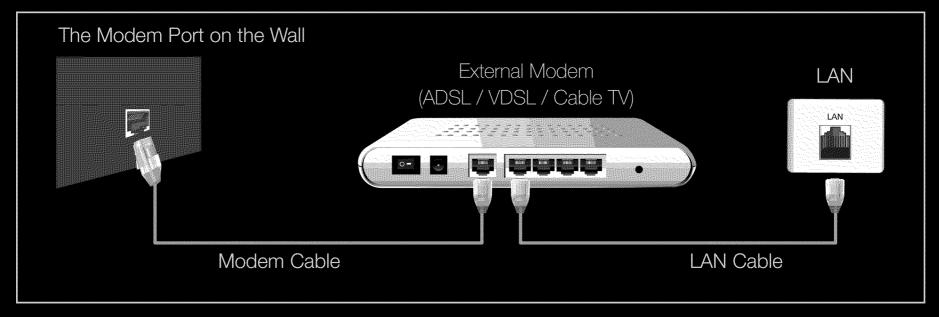
Reset all sound settings to the factory defaults. Select Reset, press **ENTER** , select OK on the pop-up, and then press **ENTER** again.

Wired Network Connection

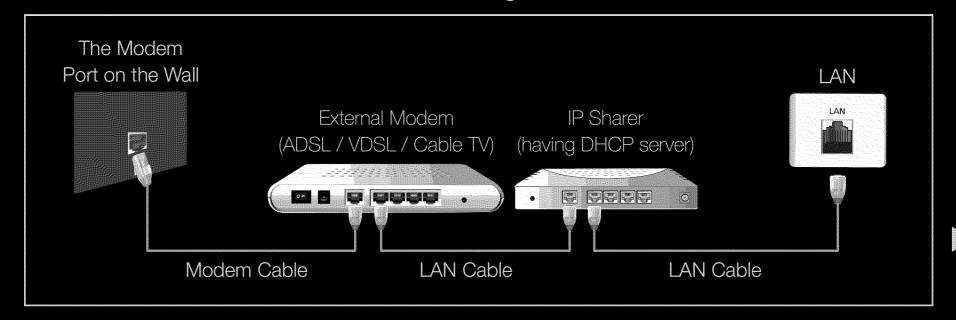
Connecting to a Wired Network for PDP 550 Series and above

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

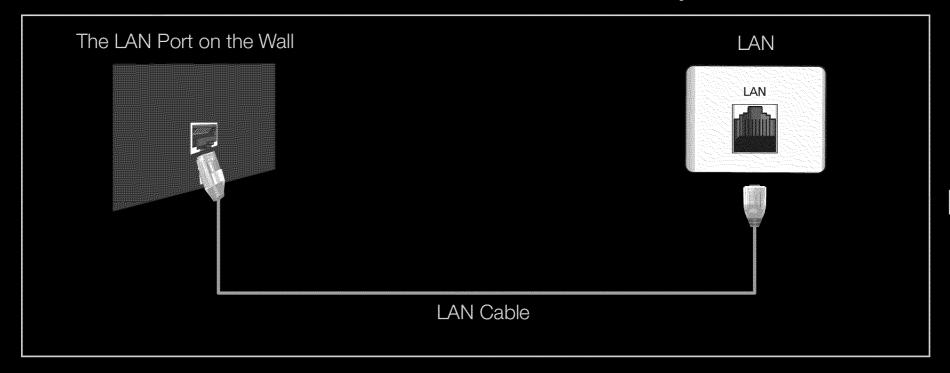
 You can attach your TV to your LAN by connecting the LAN port on the back of your TV to an external modem using a LAN cable. See the diagram below.



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



 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 up your network connection so you can use various Internet services such as **My Contents**, AllShare™ and perform software upgrades.

Network Status

Lets you check the current network and Internet status.

AllShare Settings

MENU → Network → AllShare Settings → ENTER

Lets you select 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 Setup** 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

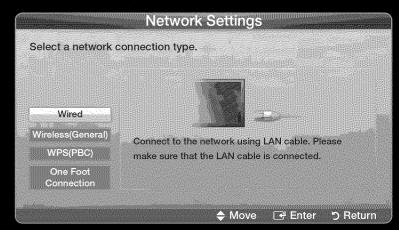
1. Go to the **Network Settings** screen.

(MENUⅢ → Network → Network Settings → ENTER 💽)

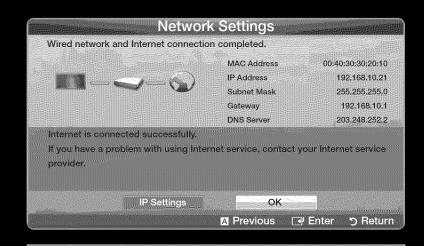
2. Select Wired, and then press

ENTER.

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



- 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.



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

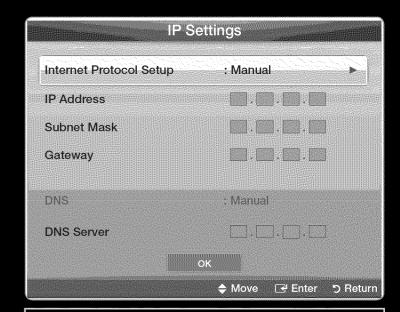
To set up your TV's cable network connection manually, follow these steps:

1. Go to the Network Settings screen. (MENU \square \rightarrow Network \rightarrow Network Settings

 \rightarrow ENTER \bigcirc

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

3. Press ENTER . The verification process stops. Select IP Settings on network test screen. The IP Settings screen appears.



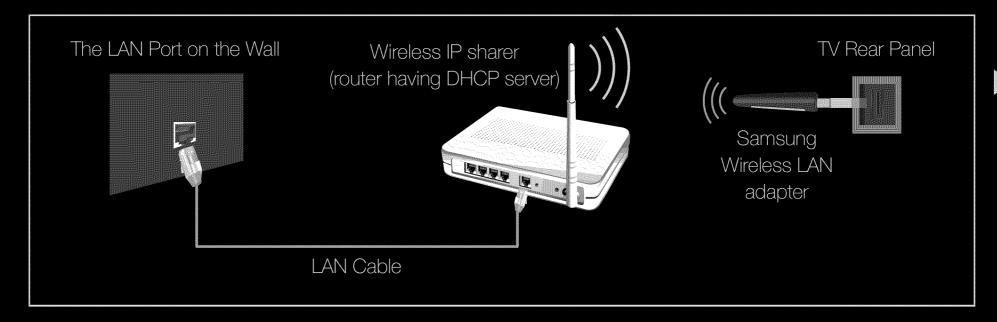
- 4. In the top entry field, press ENTER , and then set IP Mode to Manual.
- 5. Press the ▼ button on your remote to go to the IP Address entry field, and then press ENTER ♣.
- **6.** Enter the first portion of the IP Address (for example, 105) into the first entry field using the number keys on your 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 ఆ**.
- 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 PDP 550 Series and above

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



Samsung's Wireless LAN adapter is sold separately and is offered by select retailers, Ecommerce sites, and Samsungparts.com. Samsung's Wireless LAN adapter supports the IEEE 802.11a/b/c 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.

Ø NOTE

- You must use the "Samsung Wireless LAN adapter" (WIS09ABGN, WIS09ABGN2, or WIS10ABGN) to use a wireless network.
- 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 the following wireless security systems only:
 - Authentication Mode: WEP, WPAPSK, WPA2PSK
 - Encryption Type: WEP, 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 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.
- 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 off before you connect the Samsung Wireless LAN adapter.

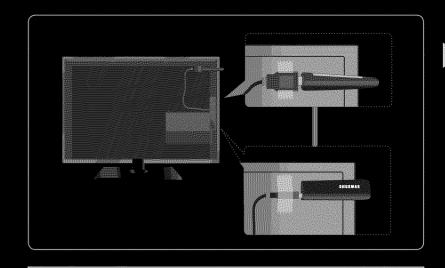
- Connection Methods: You can setup the wireless network connection in six ways:
 - Auto Setup (Using the Auto Network Search function)
 - Manual Setup
 - PBC (WPS)
 - Ad-Hoc
 - One Foot Connection
 - Plug & Access
- The TV may not recognize the Samsung Wireless LAN adapter if it is connected to the TV using a USB hub or USB extension cable other than the cable supplied.

Notice

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

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

- 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.



Automatic Network Setup

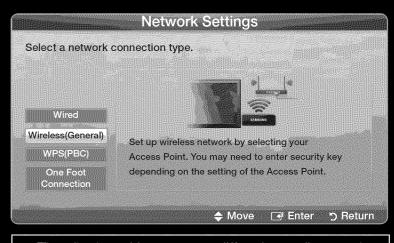
Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were 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 during the the automatic or manual setup process.

How to set up automatically

1. Go to the **Network Settings** screen.

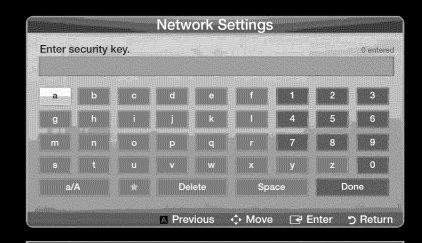
(MENUⅢ → Network → Network Settings

- \rightarrow ENTER \bigcirc).
- 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.
- **5.** If the **Enter Security Key** screen appears, go to step 6. If you select an wireless router that does not have security, go to step 7.

- **6.** If the 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 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 **Done**, and then press **ENTER** .
- **8.** The network test 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 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:

- Go to the Network Settings screen. (MENUⅢ → Network → Network
 Settings → ENTER ◄)
- 2. Select Wireless (General), and then press the ENTER 🚭 button.
- **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.

- **5.** If the Enter Security key screen appears, go to step 6. If you selected an AP or wireless router 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 the ▲ / ▼ /
 ◆ /▶ buttons on your remote to select number/characters. Press ENTER to enter the characters.
 - You can also enter numbers by pressing the number buttons on your remote.
 - 2 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 **Done**, and then press the **ENTER** → button.
- 8. The network test screen appears and the verification process starts. Press **ENTER** to cancel. Select **IP Settings** on network test screen. The **IP Settings** screen appears.
- **9.** 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 right arrow button to go to the next field.

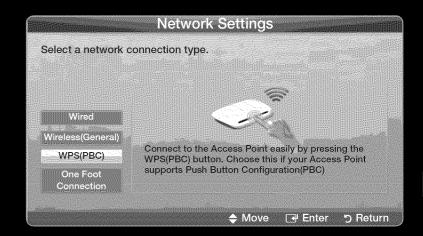
- **13.** Repeat the entry process for each field in the **IP Address**.
 - If you make a mistake when entering a number, re-enter the number to correct it. You can also press the ▲ or ▼ button to change the number one unit at a time.
- **14.** When done entering the **IP Address**, press **ENTER** ...
- **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 test 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 PBC (WPS) button, follow these steps:

- Go to Network Settings screen. (MENUⅢ → Network → Network Settings → ENTER ◄).
- 2. Select the WPS(PBC) and press ENTER , 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.



- The displayed image may differ depending on the model.
- 4. The network connection screen appears, and network setup is done.

Ad Hoc Network Setup

You can connect to a mobile device that supports Ad-hoc connections - without going through a wireless router - using the "Samsung Wireless LAN adapter". After you connect the TV to a mobile device, you can use files on the device or connect to the internet using the AllShare or My Contents function.

How to connect to using Ad hoc

- 1. Go to Network Settings screen. (MENUⅢ → 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 finishes 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 added to the Network Setting list. When you connect it again, you can find it in the Network Setting list.

One Foot Connection Network Setup

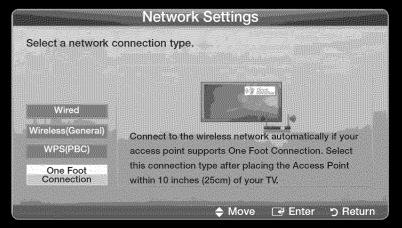
The **One Foot Connection** function lets you connect your Samsung TV automatically to a Samsung wireless Router. If your wireless router does not support **One Foot Connection**, you must connect using one of the other methods.

You can check for equipment that supports One Foot Connection on www. samsung.com.

How to set up using One Foot Connection

Turn on the power of wireless router and TV.

- 1. Turn on the router and TV.
- 2. Go to Network Settings screen. (MENUⅢ → Network → Network Settings → ENTER ◄).
- 3. Select the One Foot Connection, and press ENTER ♣, then press ENTER ♣ again.
- 4. Place the router in parallel with and no more than 9 3/4 inches from the Samsung Wireless LAN Adapter.



 The displayed image may differ depending on the model.

- If One Foot Connection does not connect your TV to your router, a popup 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 Step1.
- **5.** The network test screen appears, and network set up is done.
- 6. Move the wireless Router to 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 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 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 \rightarrow 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 popup window appears on the screen notifying you of the failure. If you want to try using **Plug & Access** a gain, 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 test screen appears, and the network setup is done.
- **6.** Place the wireless router in a desired location.
 - If the 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.

- □ Setting the Time
- Time
 - The current time will appear every time you press the **INFO** button.
 - Clock: Setting the clock to use the various 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 Month, Day, Year, Hour, Minute and am/pm.
 - 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 press ENTER .
 - Available only when Clock Mode is set to Manual.
 - You can set the month, day, year, hour, minute and am/pm directly by pressing the number buttons on the remote control.

- **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**.
- Time Zone: Select your time zone.
 - This function is only available when the **Clock Mode** is set to **Auto**.

Using the Sleep Timer

- MENUШ → System → Time → Sleep Timer → ENTER →
- Sleep Timer Tools: 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.

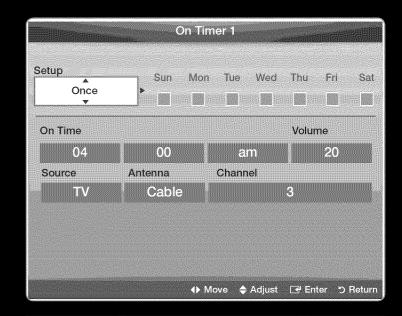
Setting the On / Off Timer

- 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**.

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.

 $\ensuremath{\mathbb{Z}}$ The $\ensuremath{\checkmark}$ mark indicates days you've selected.



 The displayed image may differ depending on the model. On 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.

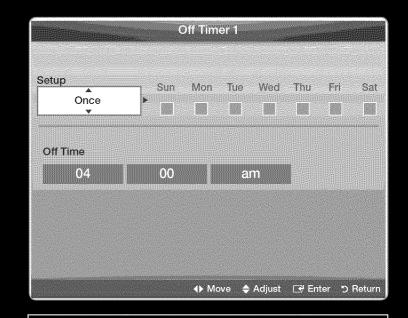
Music / **Photo** (when the **Source** is set to **USB**): Select a folder in the USB device containing music or photo files you want played when the TV turns on automatically.

Ø 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: 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 displayed image may differ depending on the model.

Off 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.

□ Blocking Programs

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 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.
 - 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 blocks 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 subratings (**D**, **L**, **S**, **V**) work similarly. So, if you block the L sub-rating in **TV-PG**, 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 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.



- 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. Rating** change depending on the downloaded information.