



Figures and illustrations in this User Manual are provided for reference only and may differ from actual product appearance. Product design and specifications may be changed without notice.

### Important Warranty Information Regarding Television Format Viewing

See the warranty card for more information on warranty terms.

Wide screen format LED Displays (16:9, the aspect ratio of the screen width to height) are primarily designed to view wide screen format full-motion video. The images displayed on them should primarily be in the wide screen 16:9 ratio format, or expanded to fill the screen if your model offers this feature and the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark sidebars on non- expanded standard format television video and programming, should be limited to no more than 5% of the total television viewing per week. Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. Displaying stationary images that exceed the above guidelines can cause uneven aging of LED Displays that leave subtle, but permanent burned-in ghost images in the LED picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On LED models that offer picture sizing features, use these controls to view different formats as a full screen picture. Be careful in the selection and duration of television formats you use for viewing. Uneven LED aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

#### SAMSUNG ELECTRONICS NORTH AMERICAN LIMITED WARRANTY STATEMENT

Subject to the requirements, conditions, exclusions and limitations of the original Limited Warranty supplied with Samsung Electronics (SAMSUNG) products, and the requirements, conditions, exclusions and limitations contained herein, SAMSUNG will additionally provide Warranty Repair Service in the United States on SAMSUNG products purchased in Canada, and in Canada on SAMSUNG products purchased in the United States, for the warranty period originally specified, and to the Original Purchaser only.

The above described warranty repairs must be performed by a SAMSUNG Authorized Service Center. Along with this Statement, the Original Limited Warranty Statement and a dated Bill of Sale as Proof of Purchase must be presented to the Service Center.

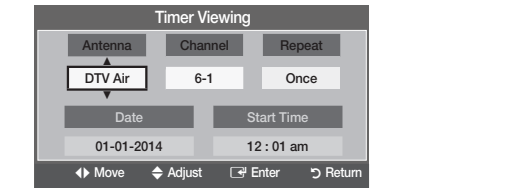


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**Timer Viewing:** You can schedule a channel to be displayed automatically at a set time, even when you are watching another channel. You must set the current time first in the **Time > Clock** function to use **Time Viewing**.  
To schedule a channel, follow these steps:

- Select a channel in the **Added Channels** list using the **▲/▼** buttons and the Yellow Select button on your remote.
- Press the TOOLS button on your remote. The Tools menu appears.
- Select **Time Viewing** in the Tools menu, and then press the ENTER button. The Time Viewing screen appears.



- Use the **◀/▶** buttons to move from entry field to entry field and the **▲/▼** buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.
  - If you select **Everyday** or **Every Week**, the date you select in the Date field becomes the start date for your scheduled viewing. For **Everyday**, the TV will turn on every day, at the time you selected, starting from that date. For **Everyweek**, the TV will turn on every week, on the same day of the week as the start date you selected, at the time you selected, from that day on. If you select **Once**, the TV will turn on once, on the date and time you selected.

- Press the ENTER button on your remote when done.
  - Only Added Channels** can be scheduled.
  - Scheduled programs and channels are displayed in the **Programmed List**.
  - When you select a digital channel, press the **▶** button to view the digital program list. If you highlight a program in the list, and then press the ENTER (**>**) button, you select **Timer Viewing** for that program directly.
  - Select All:** Select all the channels in the displayed channel list.
  - Deselect All:** Deselect all the selected displayed channels.
    - You can only select **Deselect All** when one or more channels are selected.
  - Channel Name Edit:** Analog channels only. Lets you assign a name up to five characters to an analog channel. For example, Hist, Food, Golf, etc. This makes it easier to find and select a channel.
  - Auto Program:** See **Auto Program** under Memorizing Channels.

### Programmed List (on the Channel List Screen)

The **Programmed List** displays the channels and programs you have scheduled for viewing using the **Time Viewing** function. You can view, modify, or delete a show you have scheduled using the functions on the **Programmed List** screen Tools menu.

#### Programmed List Screen Tools Menu

- Change Info:** Change the scheduling information for a show or channel you have scheduled.
- To change the information, follow these steps:
  - Select the **Programmed List** icon on the left side of the **Channel List** screen, and then press the ENTER button.
  - On the **Programmed List** screen, select the show or channel entry you want to change, and then press the TOOLS button. The Tools Menu appears.
  - Select **Change Info**, and then press the ENTER button. The **Time Viewing** screen appears.
  - Use the **◀/▶** buttons to move from entry field to entry field and the **▲/▼** buttons to change the entries. Where numbers are displayed, you can also enter numbers directly using the number keypad on your remote.
  - Press the ENTER button when done.
- Cancel Schedules:** Cancel a show or channel you have scheduled.

To cancel a scheduled show or channel, follow these steps:

- Select the **Programmed List** icon on the left side of the **Channel List** screen, and then press the ENTER button.
- On the **Programmed List** screen, select the show or channel entry you want to cancel, and then press the TOOLS button. The Tools Menu appears.
- Select **Cancel Schedules**, and then press the ENTER button. The **Cancel Schedule** screen appears.
- Select **OK**, and then press the ENTER button.
- Information:** Display the information for a show or channel you have scheduled. You can also change the schedule information.
  - Select the **Programmed List** icon on the left side of the **Channel List** screen, and then press the ENTER button.
  - On the **Programmed List** screen, select the show or channel entry you want information for, and then press the TOOLS button. The Tools Menu appears.
  - Select **Information**, and then press the ENTER button. The **Time Viewing** Information screen appears.
  - Select **Change Info** and press the ENTER button to change information, or select **Close** and press the ENTER button to close the information screen.
- Select All / Deselect All:** You can select or deselect all channels in the channel list.

### The On Screen Menus

Your TV has two kinds of menus, the Main menu and the various Tools menus. The Main menu gives you access to most or all of the menu options available on your TV. The Tools menus display a selected number of frequently used menu options that change depending on the screen you are viewing. A Tools menu symbol (T) in the lower right side of the screen indicates that a Tools menu is available.

The Main menu has seven primary categories:

- Picture
- Sound
- Channel
- Setup
- Input
- Application
- Support

To view the Main menu, press the MENU button on your remote. To view a Tools menu, press the TOOLS button on your remote.

The menu options that appear in the Main menu depend on the Source you have selected. For example, if you have selected the HDMI source, the Channel category will not appear. To see the Channel category, you must first select TV in the Source List.

The Menu options are presented below, arranged by Main menu categories. A Tools button symbol (T) next to an option name indicates the option is also available in one of the Tools menus.

### Picture Menu

#### Mode

Select your preferred picture mode.

- When your TV is connected to a PC, you can only select **Entertain** and **Standard**.
- Dynamic:** Brightens the screen. Suitable for a bright room.
- Standard:** Suitable for a normal.
- Movie:** Darkens the screen, making it less glary. Suitable for watching movies in a darkened room.
- Entertain:** Sharpens the picture. Suitable for games.
  - Only available when the TV is connected to a PC.

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

- Backlight:** Adjusts the brightness of the screen by adjusting the brightness of the individual pixels.
- Contrast:** Increases or decreases the contrast between dark and light areas of the picture.
- Brightness:** Adjusts the brightness of the screen. Not as effective as Backlight.
- Sharpness:** Sharpens or dulls the edges of objects.
- Color:** Adjusts the color saturation. The higher the Color setting, the more intense the color. Low settings remove color and the picture becomes black, white and gray.
- Tint:** Adjusts the amount of green and red in the picture. As you increase the amount of green, the amount of red decreases and vice versa.
- When the TV is connected to a PC, you can only make changes to **Backlight**, **Contrast**, **Brightness**, and **Sharpness**.

#### Advanced Settings

Available in **Standard** and **Movie** mode only. Compared to previous models, new Samsung TVs offer a more precise picture with more precise controls.

- When your TV is connected to a PC, you can only make changes to **Gamma** and **White Balance**.
- Color Space (Auto / Native):** Auto automatically matches the range of colors available to create pictures to the color range of the video source. Native provides a color range wider than the color range of the video source.
- White Balance:** Adjusts the color temperature of the picture so that white objects look white (instead of, for example, slightly pink or slightly yellow) and the overall color of the picture looks natural.
  - 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.
- Gamma:** Adjusts the primary color intensity.
- Dynamic Contrast (Off / Low / Medium / High):** Adjusts the screen contrast.
- Black Tone (Off / Dark / Darker / Darkest):** Selects the black level to adjust the screen depth. Darker settings make blacks look darker.
- Flesh Tone:** Adjusts the amount of red in skin tones.
- Motion Lighting (Off / On):** When on, the TV automatically adjusts the brightness of the screen in response to the brightness of the room. In bright light, the screen brightens. In dim light, the screen dims.
  - Available in **Standard** mode only.

#### Picture Options

- When the TV is connected to a PC, you can only make changes to the **Color Tone**, **Size** and **HDMI Black Level**.
- Color Tone (Cool / Standard / Warm1 / Warm2):** Cool makes the picture blue (cooler). Warm 1 and Warm 2 make the picture redder (warmer).
- Warm1 and Warm2** are deactivated when the picture mode is set to **Dynamic**.
- Size:** Set the size and aspect ratio of the picture on the screen. Your cable box or satellite receiver may have its own set of screen sizes as well. However, we highly recommend you use the TVs 16:9 mode most of the time.
  - 16:9:** Sets the picture to the 16:9 wide screen format.
  - Zoom1:** Provides moderate magnification of the picture. Sides, top, and bottom are cut off.
  - Zoom2:** Provides larger magnification of the picture. Sides, top, and bottom are cut off.
  - Wide Fit:** Enlarges the aspect ratio of the picture so the picture fits the entire screen.
  - 4:3:** Sets the picture to the old, 4:3 format and puts black or gray borders on the right and left of the picture.
  - Do not watch your TV in the 4:3 format for a long time. Traces of borders displayed on the left, right and center of the screen may cause image retention (screen burn) which is not covered by the warranty.
- Screen Fit:** Displays the full image without any cut-off when your TV is inputting HDMI (720p / 1080i / 1080p) or Component (1080i / 1080p) HD signals.
  - HD (High Definition) has a 16:9 aspect ratio and 1080i/1080p (1920x1080) or 720p (1280x720) resolution.
- 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 are listed below:

If you selected **Manual**:

The **Clock Set** screen appears. Use the **▲/▼** buttons to change the values in each field or use the number buttons to enter the values directly. Use the **◀/▶** buttons to move from field to field. When done with all the fields, press ENTER.

- Available only when **Clock Mode** is set to **Manual**.
- Sleep Timer (TOOLS):** Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).
  - To cancel the **Sleep Timer**, select **Off**.

#### Timer 1 / Timer 2 / Timer 3

- Turns the TV on and off automatically at times and days you select. You can set three different on/off timer settings.
  - You must set the clock first.
- On Time / Off Time:** Set the hour, minute, am/pm, and Activate/inactivate fields for the **On Time** and **Off Time**. Use the **◀/▶** buttons to move from field to field. Use the **▲/▼** buttons to change the values in each field. To activate the timer with the setting you have chosen, set the Activate/inactivate field to **Activate**.
- Volume:** Set the desired loudness.

- Contents:** To select what will be turned on when the timer setting is activated. You can set the TV to turn on a specific channel or play back contents such as photo or audio files. Use the **◀/▶** buttons to move to move to the Contents field, and then press the ENTER button. The Contents screen appears. Use the **◀/▶** buttons to move from field to field. Use the **▲/▼** buttons to change the values in each field.
- TV/USB:** Select **TV** or **USB**. The USB device must be connected to your TV before you can select USB.
- Antenna:** Displays the current antenna source, **Air** or **Cable**.
- Channel:** If you have selected TV, select the desired channel.
- Music/Photo:** If you have selected USB, follow these steps to select a folder containing MP3 (Music) or JPEG (Photo) files on the USB device:
  - The maximum displayed number of files, including sub folders, in one folder of USB storage device is 2000.
  - The media may not be playing smoothly when using the device lower than USB 2.0.
- Antenna:** Displays the current antenna source, **Air** or **Cable**.
- Channel:** If you have selected TV, select the desired channel.

### Setup Menu

#### Plug & Play

Lets you re-run the **Plug & Play** initial setup procedure. For instructions, see your Quick Start Guide.

#### Language

- Set the menu language.
- Choose between **English**, **Español**, and **Français**.

#### Setting the Time

- The time you set will appear when you press the INFO button.
- Clock:** Set the clock so you can use the various timer features of the TV.
  - If you disconnect the power cord, you have to set the clock again.
- To set the clock, follow these steps:
  - Select **Setup >Time > Clock**.
  - Press ENTER and select **Auto** or **Manual**, and then press ENTER again.
  - If you disconnect the power cord, you have to set the clock again.
  - If there are no folders on your device, press the **Yellow** select button to select the Root folder, and then press the RETURN button. The Timer screen re-appears.
  - Use the **▲/▼** buttons to highlight a folder that contains music or photos, and then press the **Yellow** select button to select the folder.
  - Use the **◀/▶** buttons to highlight a folder that contains music or photos, and then press the **Yellow** select button to select the folder.
  - Press the RETURN button. The Timer screen re-appears.
  - Repeat:** Select **Once**, **Everyday**, **Mon-Fri**, **Mon-Sat**, **Sat-Sun** or **Manual**. If you select **Manual**, you can select the days you want to activate the timer by using the **◀/▶** buttons to highlight the day, and then pressing the ENTER button. To unselect a day, highlight it, and then press the ENTER button.

When you finished making all your selections on the Timer screen, press either the ENTER or RETURN button.

Input Source	Picture Size
ATV, AV, Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
DTV (1080, 1080p), Component (1080i, 1080p), HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit
<b>Digital Clean View (Off / Low / Medium / High / Auto):</b> If the broadcast signal received by your TV is weak, you can activate the <b>Digital Clean View</b> feature to reduce any static and ghosting that may appear on the screen. <ul style="list-style-type: none"><li>When the signal is weak, try all the Digital Clean View options until the TV displays the best picture.</li></ul>	
<b>MPEG Noise Filter (Off / Low / Medium / High / Auto):</b> Reduces MPEG noise to provide improved picture quality.	
<b>HDMI Black Level (Normal / Low):</b> For HDMI signals, select the black level to adjust the screen depth. Low make blacks look darker. <ul style="list-style-type: none"><li>Available only in HDMI mode (RGB signals).</li></ul>	
<b>Film Mode (Off / Auto1 / Auto2):</b> Sets the TV to automatically sense and process film signals from all sources and adjusts the picture for optimum quality. <ul style="list-style-type: none"><li>Available in ATV, DTV (interface), AV, COMPONENT (480i / 1080i) and HDMI (480i / 1080i).</li></ul>	
<b>LED Clear Motion (Off / On):</b> Removes drag from fast scenes with a lot of movement to provide a clear picture.	

#### Picture Reset

- Picture Reset (Reset Picture Mode/Cancel):** Resets the picture settings to their factory defaults.

### Sound Menu

#### Mode

- 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 sounds to allow a better listening experience for the hearing impaired.

#### Equalizer

Available in 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 loudness of specific bandwidth frequencies.
- Reset:** Resets the equalizer to its default settings.

#### SRS TruSurround HD (On/Off)

Available in Standard sound mode only.

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

#### Preferred Language

Digital channels only.

- Digital-TV broadcasts can transmit many audio tracks simultaneously (for example, simultaneous translations of a program into foreign languages).
  - You can only select a language from among the ones being broadcast.

### Other Features

#### Program Rating Lock

The **Program Rating Lock** feature lets you block programs you've determined are inappropriate for your children based on the program's ratings. To access the **Program Rating Lock** feature and make any changes, you must enter a PIN (personal identification number). To watch a blocked program, you must also enter the same PIN.

- Program Rating Lock** is not available in **HDMI** or **Component** mode.
- The default PIN number of a new TV set is "0-0-0-0". You can set your own PIN using the **Change PIN** function.

#### How It Works

When you access the **Program Rating Lock** Menu functions for the first time, the PIN input screen appears. Enter 0-0-0-0. The PIN screen closes and the **Program Rating Lock** Menu appears. Every time you access the **Program Rating Lock** functions, the PIN screen will appear and you must enter a PIN.

- When the Rating Lock screen appears, select **Program Rating Lock**, and then press ENTER. Select **On**, and then press the ENTER key again. Depending on what type of programs or movies you want to block, select one of the options on the screen, and then press the ENTER button. The options are listed below:
  - TV Parental Guidelines:** You can block TV programs based on their ratings. This function allows you to control what your children are watching.
  - MPAA Rating:** You can block movies based on their MPAA ratings. 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.
  - Canadian English:** You can block TV programs based on their Anglophone Canadian ratings.
  - Canadian French:** You can block TV programs based on their French Canadian ratings.
  - Downloadable U.S. Rating:** Parental restriction information can be used while watching DTV channels.

#### Locking/Blocking Programs or Movies

- You lock or block programs and/or movies in essentially the same way for each option. Each option displays a grid or table. All the tables have ratings listed on the left. The TV Parental Guidelines option also has kinds of content listed across the top: **ALL:** Lock all TV ratings. / **FV:** Fantasy violence / **V:** Violence / **S:** Sexual situation / **L:** Adult Language / **D:** Sexually Suggestive Dialog.
- To lock/block movies or shows with certain ratings and/or kinds of content, click the square next to the rating and/or under the kind of content. A lock appears. To unlock/unlock, click the square again. When you click a low rating, all the ratings above it will also display locks. You can also Allow All or Lock All. When done, press the RETURN button on your remote.
- Change PIN:** The Change PIN screen will appear. Choose any 4 digits for your PIN and enter them in **Enter New PIN** fields. Re-enter the same 4 digits in **Confirm New PIN** fields. When the Change PIN screen disappears, press the OK button. The TV has memorized your new PIN.
  - If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to "0-0-0-0": POWER (off) → MUTE → 8 → 2 → 4 → POWER (on)

#### Multi-Track Sound (MTS)

Analog channels only.

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

#### Auto Volume

Automatically adjusts the volume level when you change video sources or content so the level remains the same.

#### Sound Reset

- Reset All:** Resets all sound settings to the factory defaults.

### Channel Menu

#### Memorizing Channels

When you first set up your TV using **Plug & Play**, the TV memorized the channels that were available over the air or through your cable system and added them to the **Channel List**. The **Antenna** and **Auto program** functions described below let you re-run the channel memorization function without having to re-run the **Plug & Play** procedure.

#### Antenna (Air / Cable)

Before your television can memorize the available channels, you must select your TV's signal source, **Air** (using an antenna) or **Cable**. Select Menu >Channel >Antenna >Air or Cable. After you have selected the signal source, go on to the Auto Program function.

- Selecting the signal source using the **Antenna** function also determines the signal source the TV is tuned to. For example, if you receive your TV signal over the air, and you select **Cable**, you will see only snow. You must select **Air** to see a picture.

#### Auto Program

The **Auto Program** function: memorizes all channels that are available over the air or through your cable system and adds them to the **Channel List**.

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

- Push MENU → **Channel** → **Auto Program** → ENTER on your remote. The Antenna Source screen appears.
- On the Antenna Source screen, select the source of your TV signal.

#### Air

If your TV is connected to an antenna choose **Air**, and then press ENTER. The TV will automatically start memorizing channels.

#### Cable

If your TV is connected to a cable outlet, choose **Cable**, and then press ENTER. Go to Step 3.

#### Auto

If you choose **Auto**, and then press ENTER, the TV will automatically select the correct Antenna source. Go to Step 3.

- On the Cable Type screen, use the **◀/▶** buttons to select the type of digital and analog cable systems you have: **STD**, **HRC**, or **IRC**. Most systems are **STD** (Standard). When done, select **Start**, and then press ENTER. The TV will start memorizing channels.

- Channel memorization can take up to 45 minutes, depending on your cable system.
- Memorized channels are added to the **Added Channels** list. These are the channels you will see when you use the Channel buttons on your remote.

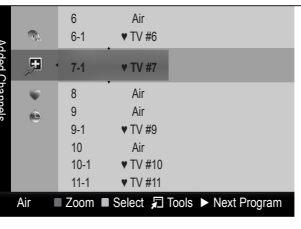
#### Clear Scrambled Channel

- This function filters out scrambled channels after **Auto Program** is completed. This process may take up to 20-30 minutes.
- Press the ENTER button to stop the **Clear Scrambled Channel**.
- This function is only available in **Cable** mode.

#### Managing Channels

##### Channel List

See your list of Added channels, Favorite channels, or channels you've scheduled for viewing. Add or delete Favorite channels, add or delete channels from the Added Channels list, schedule channels or programs for viewing. Watch a channel by selecting the channel in the **All Channels**, **Added Channels**, or **Favorites** screen, pressing the **▲/▼** buttons, and then pressing the ENTER button.



Channel List Screens icons are listed on the left side. Select an icon using the **▲/▼** buttons to view each list.

- All Channels:** Shows all currently available channels including those you deleted from the **Added Channels** list.
- Added Channels:** Shows all Added Channels. These are the channels that appear when you press the CH button.
- Favorite:** Shows all favorite channels.
- Programmed:** Shows all channels and programs currently scheduled using **Timer Viewing**.

- Remote control buttons active on the **Channel List** screen.
  - Green (Zoom):** Enlarges or shrinks a channel number.
  - Yellow (Select):** Move the cursor to a channel. Press the Yellow button to select the channel. A checkmark appears. Repeat to select additional channels. Then, open the Tools menu and apply a function to the channels you selected.
  - Tools (Tools):** Displays the **Channel List** Tools menu. (The Tools menu may differ depending on the situation.)

#### Auto Protection Time

- Auto Protection Time (Off / 2 hours / 4 hours / 8 hours / 10 hours):** If the screen remains idle with a still image for a certain period of time you define, the screen saver is activated to prevent the formation of ghost images on the screen.
- Eco Solution**
  - Energy Saving (Off / Low / Medium / High / Picture Off):** This adjust the brightness of the TV in order to reduce power consumption. If you select **Picture Off**, the screen is turned off, but the sound remains on. Press any button except volume button to turn on the screen.
  - No Signal Power Off (Off / 15 min. / 30 min. / 60 min.):** Sets how quickly the TV switches to standby mode, if no picture is being received.
    - Disabled when the PC is in power saving mode.
  - Auto Power Off (Off / On):** The TV will be automatically turned off when no user operation is received for 4 hours.

### Support Menu

#### Self Diagnosis

- Picture Test:** Use to check for picture problems. If the problem appears in the test picture, select Yes and follow the directions on the screen.
- Sound Test:** Use the built-in melody sound to check for sound problems. If the problem occurs during the test, select Yes and follow the directions on the screen.
- Signal Strength:** (Digital channels only) An HD channel's reception quality is either perfect or the channels are unavailable. Adjust your antenna to increase signal strength.
- Reset:** Reset all settings to the factory defaults.
  - The PIN input screen appears before the setup screen.
  - Enter your 4-digit PIN. Change the PIN using the **Change PIN** option.

#### Software Upgrade

**Software Upgrade** can be performed by downloading the latest firmware from samsung.com to a USB memory device.

#### HD Connection Guide

Refer to this information when connecting external devices to the



