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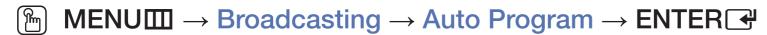
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# Memorizing channels

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 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**.

If you have connected your TV to a cable or satellite set top box, you do not need to run the **Auto Program** function.

# Auto Program



Scans for channels automatically and stores them in the TV's memory. To start **Auto Program**, follow these steps:

- 1. Select Auto Program, and then press ENTER ♂.
- 2. Press the ENTER button to select Start.
- 3. Select Both, Air, or Cable by highlighting, and then pressing ENTER →.

- 4. If you selected **Cable**, you must specify your cable systems. First, select **Digital Cable System**, and then press **ENTER**.
- 6. Repeat for Analog Cable System.
- 7. Select Scan, 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 to select **Stop**.
- 2. A message will ask Stop Auto Program? Select Yes by pressing the ◀ or ▶ button.
- 3. Press the **ENTER** button.
  - If you select **Change Settings**, the antenna setting screen appears. You can re-set the antenna settings and start channel search again.
  - Select Scan Again, and then press the ENTER button to restart channel search.

#### Antenna

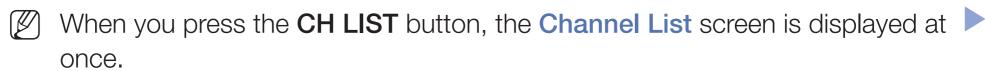


To change the source of your TV signal, follow these steps:

- 1. Select Antenna, and then press ENTER →.
- 2. Select the source of your TV signal, Air or Cable.
- Selecting Air or Cable also changes the actual signal input from Air to Cable or Cable to Air.

- Using the Channel menu
- Channel List
  - $\textcircled{\begin{tabular}{ll} \hline \raise & MENU \rightarrow Broadcasting \rightarrow Channel List \rightarrow ENTER \end{tabular} \label{table entropy of the control of the control$

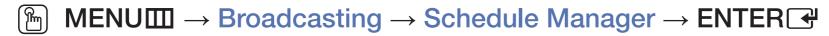
The Channel List contains the channels your TV displays (Added channels) when you press the channel button on your remote. On the Channel List screen, you can also view channel information, Added Ch., and Favorites 1-5. Press the Mode) button to change the channel mode.



#### **Channel Mode**

- Air / Cable: Switch between Air and Cable.
- Edit Favorites: Set channels you watch frequently as favorites. Add or delete a selected channel in Favorites 1-5.
  - For detailed information about using **Edit Favorites**, refer to "**Edit Favorites**".
- Favorites 1-5: Show all favorite channels, arranged in up to five groups. Each group has a separate screen.
  - The TV displays Favorites 1-5 only if you have added favorites using Edit Favorites.
- Added Ch.: Show all added channels.

# Schedule Manager



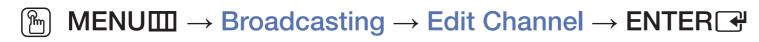
You can schedule a channel to be displayed automatically at a selected time. In addition, you can view, modify, or delete the scheduled viewing information.

- You must set the current time first using the Time → Clock function in the System menu to use this function.
- 1. Select Schedule on the Schedule Manager screen, and then press the ENTER button. The Schedule Viewing menu appears.
- 2. Press the  $\blacktriangleleft/\triangleright/\triangle/\blacktriangledown$  buttons to set each menu option.
  - Antenna: Select the desired broadcasting signal.
  - 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.
  - A check (

    ✓) mark indicates a day you selected.
- Date: You can set a desired date.
  - Date is available only when you select **Once** in **Repeat**.
- Start Time: You can set the start time you want.
- If you want to edit or cancel a scheduled viewing, select the scheduled viewing on **Schedule Manager**. Then, press the **ENTER** button and select **Edit** or **Remove**.

#### **Edit Channel**



You can add, edit, or delete channels from the Channel List.

#### Deleting a channel from the Channel List

- 1 Go to Edit Channel screen.
- Press the ▲/▼ buttons to select a channel, and then press the ENTER →
  button. The (✓) mark indicates the channel you've selected.
  - (V) You can select more than one channel.
  - Press ENTER button again to deselect the channel.
- 3. Press the (Delete) button. The selected channel is deleted from the Channel List.

#### Adding a channel to the Channel List

- 1. On the Edit Channel screen, press the TOOLS button, and then select Category.
- 2. Select All and press the OK button. The All Channel List appears.
  - Your TV will display all channels, including channels you deleted from the **Channel List**, in the **All** Channel List.
  - A gray-colored channel indicates the channel has been deleted from the **Channel List**.
- 3. Select a deleted channel, and then press the (Add) button.

- Using the colored and function buttons with the Edit Channel.
- Yellow (Delete / Add)
  - Delete: Deletes a channel from the channel list.
  - Add: Adds a deleted channel. It only appears when you select a deleted channel in All.
- Blue (Select All / Deselect All): Selects or deselects all channels at once.
- 0~9 (Go To): Goes directly to a channel when you press channel numbers (0~9).
- \$\frac{1}{2}\$ (Page): Moves to the next or previous page.

- $\sqrt{\text{Tools}}$ : Displays the option menu. The option menu items that appear may differ depending on the channel status and type.
  - Antenna: Selects the broadcasting signal, air or cable.
  - Category: Changes the channel mode. Select All, Added Ch.,
     Recently Viewed, or Mostly Viewed. The channel mode you select is displayed.
  - Edit Favorites: Go to Edit Favorites screen directly.
  - Rename Channel (analog channels only): Lets you assign a name of up to five characters to a channel. For example, Food, Golf, etc. This makes it easier to find and select the channel.
  - Information: Displays details of the selected program.

### Edit Favorites TOOLS 和



You can add, edit or delete favorite channels to or from one or more of 5 favorite lists.

#### Adding a channel to Favorites 1-5

- 1. Go to the **Edit Favorites** screen.
- Press the ▲/▼ buttons to select a channel, and then press the ENTER →
  button.
- 3. Choose a specific favorite list among Favorites 1-5 using the (Change Fav.) button, and then press the (Add) button. The selected channel is added to the favorites list you have chosen in Favorites 1-5.
  - A channel can be added to more than one of the five favorite lists in Favorites 1-5.

#### Deleting a channel from the Favorites 1-5

- 1. On the Edit Favorites screen, select a favorite list using (Change Fav.) button.
- 2. Move to favorite list, and then select the channel you want to delete.
- 3. Press the (Delete) button. The selected channel is deleted from Favorites 1-5.
  - If you want to change the favorite channel order, press the ⚠ (Change order) button and change the order using the ▲/▼ buttons.

- Using the colored and function buttons with Edit Favorites.
- Red (Category / Change order)
  - Category: Changes the channel mode to All, Added Ch., Recently Viewed, or Mostly Viewed, and then displays the selected channel mode.
  - Change order: Changes the favorite channel order.
  - (Done): Completes changing the channel order.
- B Green (Change Fav.): Changes the displayed favorite list.
- Yellow (Add / Delete)
  - Add: Adds selected channels to Favorites 1-5.
  - Delete: Deletes a favorite channel from Favorites 1-5.
- Blue (Select All / Deselect All): Selects or deselects all channels at once.

- 0~9 (Go To): Goes directly to a channel when you press channel numbers (0~9).
- \$\times\$ (Page): Moves to next or previous page.
- $\sqrt{100}$  (Tools): Displays the option menu. The option menu items that appear may differ depending on the channel status and type.
  - Copy to Favorites: Edits the selected favorite channel in Favorites
     1-5. You can add to or delete from favorite lists.
  - Rename Favorites: Lets you assign names to favorite channels.
  - Antenna: Selects the broadcasting signal, air or cable.
  - Edit Channel: Go to Edit Channel screen directly.
  - Information: Displays details of a selected program.

# □ Blocking Programs

# Program Rating Lock



Prevent unauthorized users, such as children, from watching unsuitable programs. Access blocked programs when you enter the default or a user defined 4-digit PIN code.

- The PIN input screen appears before the setup screen appears.
- Enter a 4-digit PIN. The default PIN is 0-0-0. Change the PIN using the Change PIN option.
- Program Rating Lock: When On, lets you block TV programs based on their ratings.

TV Rating: Lets you block TV programs based on their ratings. This function allows you to control which TV programs 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 / FV: Fantasy violence / V: Violence / S: Sexual situation / L: Adult Language / D: Sexually Suggestive Dialog
To block certain content, you select a lock, and press ENTER (That is, you "click it".). For example, click the lock at the intersection of V and TV-MA, and you block all programs that are rated violent and for mature adults. The locks are also assigned to related groups. For example, if you click TV-Y under ALL, then TV-Y7 will also automatically be blocked.

Similarly, if you click **TV-G** under **ALL**, then all the categories in the young adult group will be blocked (**TV-G**, **TV-PG**, **TV-14** and **TV-MA**). The 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 (MPAA) 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 Canadian English rating.

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

C: Programming intended for children under age 8. / C8+: Programming generally considered acceptable for children 8 years and over to watch on their own. / G: General programming, suitable for all audiences. / PG: Parental Guidance. / 14+: Programming contains themes or content which may not be suitable for viewers under the age of 14. / 18+: Adult programming.

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

To unblock a category, click the lock.

Canadian French Rating: You can block TV programs based on their French Canadian rating.

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

G: General / 8 ans+: Programming generally considered acceptable for children 8 years and over to watch on their own. / 13 ans+: Programming may not be suitable for children under the age of 13. / 16 ans+: Programming is not suitable for children under the age of 16. / 18 ans+: Programming restricted to adults.

To block certain content, you select a lock, and press **ENTER** (That is, you "click it".). For example, click the 18 ans+ lock and you block all TV programs rated 18 ans+. The rating categories are also grouped so that clicking one category blocks all the categories a parent would block along with it. For example, if you block the 8 ans+ category, then 13 ans+, 16 ans+ and 18 ans+ will automatically be blocked also.

To unblock a category, click the lock.

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

## NOTE

- If information is not downloaded from the broadcasting station, the 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.
- Even if you set the on-screen display to another language, the Downloadable U.S. Rating menu will appear in English only.
- Blocking one rating level will automatically block other categories that deal with more sensitive material.
- The rating titles (For example: Humor Level, etc.) and TV ratings (For example: DH, MH, H, etc.) may differ depending on the broadcasting station.

- Other Features
- Channel Settings
  - $\textcircled{\begin{tabular}{ll} \raggreenth{ MENU$ $\square$} } \to Broadcasting \to Channel Settings \to ENTER \textcircled{\end{tabular}}$
  - Fine Tune

(analog channels only)

If the reception is clear, you do not have to fine tune the channel. This is done automatically during the search and store operation. If the signal is weak or distorted, fine tune the channel manually.

- 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.

#### Clear Scrambled Channel

This function 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.

# Audio Options



Preferred Language

(digital channels only)

Use the ▲/▼ buttons 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 broadcast.

#### Multi-Track Sound TOOLS

(analog channels only)

Select an option using the ▲/▼ buttons, and then 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**.
- When the TV is tuned to a digital channel and you press the **TOOLS** button, you can select a language from among the ones being broadcast.

### Visual Impaired

(digital channels only)

Adds a verbal description to the main audio to help the visually impaired.

# Caption TOOLS ₽

(On-Screen Text Messages)

# MENU → Broadcasting → Caption → ENTER

- Caption: You can turn the caption function on or off. If captions are not available, they will not be displayed on the screen.
  - The Caption feature does not work with devices connected to the TV through the Component or HDMI input jacks.
- Caption Mode: You can select the desired caption mode.
  - The availability of captions depends on the program being broadcasted.

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

Default / Service1 ~ Service6 / CC1 ~ CC4 / Text1 ~ Text4: (digital channels only) The Digital Captions function works with digital channels.

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

Digital Caption Options: (digital channels only)

Size: Options include Default, Small, Standard and Large.

Font Style: Options include Default and Styles 0 to 7.

Font Color: You can change the color of the letters. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta, and Cyan.

Background Color: You can change the background color of the caption. Options include Default, White, Black, Red, Green, Blue, Yellow, Magenta, and Cyan.

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

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

Return to Default: This option sets Size, Font Style, Foreground Color, Background Color, Foreground Opacity, and Background Opacity to their defaults.



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

# ☐ Changing the Preset Picture Mode

■ Picture Mode Tools □

Picture modes apply preset adjustments to the picture. Select a mode using the  $\triangle/\nabla$  buttons, and then press **ENTER**.

- When the TV is connected to a PC, you can only select **Entertain** and **Standard**.
- Dynamic: Suitable for a bright room.
- Standard: Suitable for a normal room environment.
- Natural for LED TV: Provides a display that is comfortable to the eye.
- Movie: Suitable for watching movies in a dark room.
- Entertain: Suitable for watching movies and games.
  - Entertain is only available when the TV is connected to a PC.

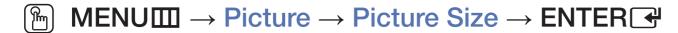
- □ Adjusting Picture Settings
- Backlight for LED TV / Cell Light for PDP TV / Contrast / Brightness / Sharpness / Color / Tint (G/R)
  - $\begin{tabular}{ll} \hline \raggreent \hline \raggre$

Your television has several options for adjusting picture quality. Select an option using the  $\triangle/\nabla/\blacktriangleleft/\triangleright$  buttons, and then press **ENTER**.

- NOTE
  - When you make changes to Backlight for LED TV / Cell Light for PDP TV,
     Contrast, Brightness, Sharpness, Color or Tint (G/R), the OSD will be adjusted accordingly.

- When the TV is connected to a PC, you can only make changes to Backlight for LED TV / Cell Light for PDP TV, Contrast, Brightness, and Sharpness.
- You can adjust and store settings for each external device connected to the TV.
- Lowering picture brightness reduces power consumption.

## 



Picture Size provides various picture size and aspect ratio options. Select an option using the  $\triangle/\nabla/\blacktriangleleft/\triangleright$  buttons, 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: Magnifies the picture moderately. Cuts off the top and sides.

**Zoom2**: Magnifies the picture more than **Zoom1**.

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

- 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.

Smart View 1 for LED TV: Reduces the original screen by 50%.

Smart View 2 for LED TV: Reduces the original screen by 25%.



- Smart View 1 is enabled only in HDMI mode.
- Smart View 2 is enabled only in DTV and HDMI modes.

- 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. Select Position, and then press the ENTER button.
    - 2. Select the Position button, and then press ENTER .
    - 3. Press the ▲/▼ buttons to move the picture up or down.
    - 4. Press the ENTER button.
  - 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. Select Position, and then press the ENTER → button.
    - 2. Select the **Position** button, and then press **ENTER**.
    - **3.** Press the  $\triangle/\nabla/\triangle/$  buttons to move the picture.
    - 4. Press the ENTER button.
- 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.

- The picture size can vary depending on the input resolution when you play content using Videos in Media Play.
- HD (High Definition) is: 16:9 1080i/1080p (1920x1080) or 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
DTV (1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit, Smart View 2
DTV (720p)	16:9, Wide Fit, 4:3, Smart View 2
DTV (480i, 480p)	16:9, Zoom1, Zoom2, 4:3, Smart View 2
ATV, AV	6:9, Zoom1, Zoom2, 4:3
Component (1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit
Component (720p)	16:9, Wide Fit, 4:3
Component (480i, 480p)	16:9, Zoom1, Zoom2, 4:3
HDMI (720p, 1080i, 1080p)	16:9, Wide Fit, 4:3, Screen Fit, Smart View 1, Smart View 2

## PIP

# 

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

# NOTE

- For PIP sound, refer to the Sound Select instructions.
- If you turn the TV off while watching in the PIP mode, the PIP function is reset to off. When you turn your TV on, you must turn PIP on again to watch in the PIP mode.

- You may notice that the picture in the PIP window becomes slightly unnatural when you use the main screen to view a game or karaoke.
- When Program Rating Lock is on, you cannot use PIP.
- PIP Settings

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

Main picture	Sub picture
Component, HDMI	TV

- PIP: Activate or deactivate the PIP function.
- Antenna: Select either Air or Cable as the input source for the subscreen.
- Channel: Select the channel for the sub-screen.
- Size: Select a size for the sub-picture.
- Position: Select a position for the sub-picture.
- Sound Select: You can choose to listen to the sound from the Main picture or the Sub picture.

- Changing the Picture Options
- Advanced Settings

Advanced Settings are available in the Standard and Movie modes.

To use, select an option using the  $\triangle/\nabla/\blacktriangleleft/\triangleright$  buttons, and then press **ENTER**  $\square$ .

- When the TV is connected to a PC, you can only make changes to the White Balance and Gamma.
- Dynamic Contrast: Adjusts the screen contrast.
- Black Tone: Select the black level to adjust the screen depth.
- Flesh Tone: Adjusts the amount of red in skin tones.

- RGB Only Mode: Displays the Red, Green and Blue color so you can make fine adjustments to hue and saturation.
- Color Space: Adjusts the range and variety of colors (the color gamut) available to create images.
  - To adjust Color, Red, Green, Blue and Reset, set Color Space to Custom.
- 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.

 10p White Balance: Controls the white balance by adjusting the red, green, and blue brightness over 10 specific intervals.

Available when the picture mode is set to Movie. The external input (source) can be set to any input.

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.

Gamma: Adjusts the primary color intensity.

- Expert Pattern: By running the Expert Pattern function, you can calibrate the picture without a generator or filter. If the OSD menu disappears or a menu other than the Picture menu is opened, the TV saves the calibration and the Expert Pattern window disappears.
  - While the Expert Pattern is running, the TV does not output sound.
  - Only enabled when you select a Component or HDMI source.
- Motion Lighting: Reduces power consumption by reducing screen brightness when the picture on the screen is motionless.
  - This function is not supported in 3D mode. for PDP 4900 / LED 6100 series
  - When you change the **Backlight** for LED TV / Cell Light for PDP TV, Contrast, or Brightness, the TV sets Motion Lighting to Off.
  - Only available in **Standard** mode.

# Picture Options



Select an option using the  $\triangle/\nabla/\blacktriangleleft/\triangleright$  buttons, and then press **ENTER**  $\square$ .

When the TV is connected to a PC, you can only make changes to Color Tone.

#### Color Tone

- 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.

- Digital Clean View: If the broadcast signal received by your TV is weak, you
  can activate the Digital Clean View feature to reduce any static and ghosting
  that may appear on the screen.
  - When the signal is weak, try each option in **Digital Clean View** until the TV displays the best picture.

**Auto Visualization**: When you change from one analog channel to another, displays the signal strength.

- Only available for analog channels.
- When you press the **INFO** button, the TV displays the signal strength bar.
- Mhen the bar is green, you are receiving the best possible signal.
- MPEG Noise Filter: Reduces MPEG noise to provide improved picture quality.

- HDMI Black Level: Lets you select the black level on the screen to adjust the screen depth.
  - Available only in HDMI mode (RGB signals).
- Film Mode: 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 an HDMI 24Hz signal is inputted. for PDP TV
  - Available in TV mode and all external input modes which support SD (480i / 576i) and HD (1080i) signals except when connected to a PC.
  - If the screen does not seem natural, change the Film Mode option to Off, Auto1, or Auto2.

- Auto Motion Plus for LED 6100 series : Enhances motion in fast moving scenes.
  - The info screen on your TV displays the resolution and frequency of the incoming video signal (60Hz). This 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 Auto Motion Plus is set to Custom, you can set Blur Reduction,

    Judder Reduction, LED Clear Motion, or Reset manually.

Blur Reduction: Adjusts the blur reduction level of video from all sources.

**Judder Reduction**: Adjusts the judder reduction level of video sources playing movies.

LED Clear Motion: Optimizes the screen display for fast action scenes.

Reset: Restores settings to default values.

- Black optimizer for PDP TV: Deepens blacks on the screen and improves the contrast ratio.
  - When the TV is connected to a PC, Black optimizer deactivated.
  - When the TV is operating other features, **Black optimizer** is deactivated. (ex. **Media Play**, **PIP**)

## **Picture Off**



The screen is turned off but the sound remains on. Press any button except the volume button to turn on the screen.

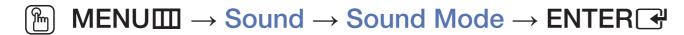
## **Reset Picture**



Resets your current picture mode to its default settings.

# □ Changing the Preset Sound Modes

### Sound Mode



Use the ▲/▼ buttons 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 sounds 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

MENU → Sound → Sound Effect → ENTER

(standard sound mode only)

Use the ▲/▼ buttons to select an option, and then press ENTER ...

#### DTS TruSurround

This function provides a virtual 5.1 channel surround sound experience through a pair of speakers or headphones using HRTF (Head Related Transfer Function) technology.

## DTS TruDialog

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

Use **Equalizer** to customize the sound setting for each speaker.

Balance: Adjusts the balance between the right and left speaker.

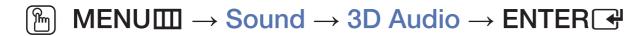
100Hz / 300Hz / 1kHz / 3kHz / 10kHz (Bandwidth Adjustment): Adjusts the volume level of specific bandwidth frequencies.

Reset: Resets the equalizer to its default settings.



## 3D Audio

#### for PDP 4900 / LED 6100 series



3D audio technology that provides an immersive sound corresponding to the effect of 3D video by utilizing audio depth control in perspective.

Available in only when the TV is displaying 3D images.

## Speaker Settings

MENU → Sound → Speaker Settings → ENTER

### Speaker Select

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 VOLUME 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

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

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

To use the volume control on a source device connected to the TV, set Auto Volume to Off on the TV. Otherwise, there may be no change in the volume when you adjust the volume control on the source device.

# **Digital Audio Out**



Digital Audio Out outputs an uncompressed digital audio signal when you connect the digital audio out 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 format. The available Digital Audio output format may differ depending on the input source.
  - By connecting the TV to a receiver or home theater with **Dolby Digital** and 5.1ch speakers and selecting **Dolby Digital**, you can maximize your interactive 3D sound experience.

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

## **Reset Sound**



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

- Executing initial setup
- Setup

Configure the channels and set the time when you set up the TV for the first time or when you reset the TV.

To execute the initial setup, follow the instructions displayed on the TV screen.

# □ Setting the Time

## Time

- The current time will appear every time you press the **INFO** button.
- Clock: Set the clock to use the various timer features of the TV.
  - If you disconnect the power cord, you have to set the clock again.
  - Clock Mode: Set the current time manually or automatically.
    - Auto: The TV sets the current time automatically using the time from a digital channel.
      - You must have 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, Auto may not set the time correctly. If this occurs, set the time manually.

Clock Set: Set the Date and Time.

Select Clock Set. Select Date or Time, and then press ENTER . Use the number buttons or the  $\triangle/\nabla$  buttons to enter numbers. Use the  $\blacktriangleleft/\triangleright$  buttons to move from one entry field to the next. Press ENTER  $\blacktriangleleft$  when done.

Available only when Clock Mode is set to Manual.

**DST**: 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.

 $\nearrow$  This function is only available when the **Clock Mode** is set to **Auto**.

Time Offset for PDP 4900 series: Adjusts the time when your TV receives the time information via Internet. Set the right time by selecting an offset.

The current time will be set through a network, if the TV fails to receive the time information including the broadcast signal from TV stations. (ex: Watching TV via set-top box, Satellite receiver, or etc)

## Using the Sleep Timer

- $\textcircled{\ } \textbf{MENU} \longrightarrow \textbf{System} \rightarrow \textbf{Time} \rightarrow \textbf{Sleep Timer} \rightarrow \textbf{ENTER} \textcircled{\ }$
- Sleep Timer TOOLS: Automatically shuts off the TV after a preset period of time. (30, 60, 90, 120, 150 and 180 minutes).
  - Use the ▲/▼ buttons to select a period of time, and then press ENTER . To cancel the Sleep Timer, select Off.

# □ Setting the On/Off Timer

 $\fbox{MENU} \longrightarrow System \rightarrow Time \rightarrow On \ Timer < or > \ Off \ Timer \rightarrow ENTER \ \ref{eq:superscript}$ 

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.
  - 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.

The 
 ✓ mark indicates days you've selected.

**Time**: Set the hour, minute, am/pm. Use the number buttons or the  $\triangle/\nabla$  buttons to enter numbers. Use the  $\blacktriangleleft/\triangleright$  buttons to change entry fields.

**Volume**: Set the desired volume level. Use the **◄/▶** buttons to change the volume level.

**Source**: To select the source of the content that will play when the TV turns on. You can:

- Select TV and have the TV display a specific air or cable channel.
- Select USB and have the TV play back photo or audio files from a USB device.
- Select a source on your TV to which you have connected a set-top box, and have the TV display a channel from the set-top box.
- The USB device must be connected to your TV before you can select USB.

- If you select a source other than TV or USB, you must:
- Have a cable or satellite set-top box attached to that source
- Set the set-top box to the channel you want to watch when the TV goes on
- Leave the set-top box turned on.
- When you select a source other than TV or USB, the Antenna and Channel options will disappear.

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 the music or photo files you want to play when the TV turns on automatically.

- 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.
- A folder with a name that is too long cannot be selected.
- Each USB device you use is assigned its own folder. When using more than one of the same type of USB device, make sure the folders assigned to each USB device have different names.
- We recommend that you use a USB memory stick or a multi card reader when using **On Timer**.
- The On Timer function may not work with USB devices that have a builtin battery, MP3 players, or PMPs made by some manufacturers because these devices take a long time to be recognized.

• Off Timer: You can set up three separate Off Timer configurations.

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  $\checkmark$  mark indicates days you've selected.

Time: Set the hour, minute, and am/pm. Use the number buttons or the  $\triangle/\nabla$  buttons to enter numbers. Use the  $\blacktriangleleft/\triangleright$  buttons to change entry fields.

- Economical Solutions
- Eco Solution

  - Energy Saving: Lets you adjust the brightness of the TV in order to reduce power consumption.
  - Eco Sensor: To enhance your power savings, the picture settings will automatically adapt to the light in the room.
    - If you adjust **Backlight** for LED TV / Cell Light for PDP TV in the Picture menu, **Eco Sensor** is set to Off.

- Min. Backlight for LED TV / Min Cell Light for PDP TV: When Eco Sensor is On, lets you manually adjust the minimum screen brightness.
- If Eco Sensor is On, the display brightness may change (become slightly darker in most cases) depending on the surrounding light intensity. You can control the screen's minimum brightness with the Min. Backlight for LED TV / Min Cell Light for PDP TV function.
- No Signal Power Off: Sets how quickly the TV switches to standby mode if it is receiving no signal.
  - Disabled when an attached PC is in power saving mode.
- Auto Power Off: The TV will automatically turn off if you don't press a button on the remote control or touch a button on TV's front panel within 4 hours.

- Other Features
- Menu Language
  - $^{\frown}$  MENU  $\longrightarrow$  System  $\rightarrow$  Menu Language  $\rightarrow$  ENTER  $\checkmark$  Set the menu language.
  - 1. Select Menu Language, and then press the ENTER button.
  - 2. Choose a language, and then press the ENTER button.
    - Choose English, Español, or Français.

#### Auto Protection Time for LED TV

- MENU → System → Auto Protection Time → ENTER
- Auto Protection Time: If the screen remains idle with a still image for a certain period of time defined by the user, the screen saver is activated to prevent the formation of ghost images on the screen.

### Screen Burn Protection for PDP TV

## 

To reduce the possibility of screen burn, this unit is equipped with Pixel Shift screen burn prevention technology. Pixel Shift moves the picture slightly on the screen. The Time function setting allows you to program the time between movement of the picture in minutes.

Your TV has the following screen burn protection functions:

- Pixel Shift
- Auto Protection Time
- Scrolling
- Side Gray

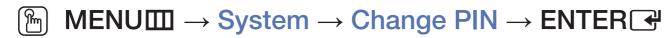
- Pixel Shift: Using this function, you can set the TV to move pixels minutely on the PDP screen in a horizontal or vertical direction to minimize after images on the screen.
  - Available Pixel Shift Settings and Optimum Settings

	Available Settings	Optimum Settings for TV/AV/ Component/HDMI
Horizontal	0~4 (pixels)	4
Vertical	0~4 (pixels)	4
Time (minute)	1~4 min	4 min

- The Pixel Shift value may differ depending on the TV's size (in inches) and the mode.
- This function is not available in the Screen Fit mode.
- Auto Protection Time: If the screen displays a still image for a certain period of time you define, the TV activates the screen saver to prevent the formation of burnt in ghost images on the screen.

- Scrolling: This function removes after-images on the screen by illuminating all the pixels on the screen according to a pattern. Use this function when there are after images or symbols on the screen, especially when you displayed a still image on the screen for a long time.
  - The after-image removal function has to be executed for a long time (approximately 1 hour) to remove after-images on the screen effectively. If the after-image is not removed after you apply this function, apply the function again.
  - Press any key on the remote control to cancel this feature.
- Side Gray: When you watch TV with the screen ratio set to 4:3, using the Side Gray function can prevent damage to the edges of the screen by adjusting the white balance on the extreme left and right sides.

# **Change PIN**



First, the PIN input screen appears. Enter the current or default PIN. Then, the Change PIN screen appears. Choose any 4 digits for your PIN and enter them in Enter New PIN. Re-enter the same 4 digits in Confirm New PIN. When the Confirm screen appears, press the Close button. The TV has memorized your new PIN.

- Whenever you access the **Change PIN** function, the PIN input screen appears. Enter the current or default PIN.
- The default PIN number for a new TV set is "0-0-0".
- If you forget the PIN code, press the remote control buttons in the following sequence in Standby mode. This resets the PIN to "0-0-0-0": **MUTE**  $\rightarrow$  8  $\rightarrow$  2  $\rightarrow$  4  $\rightarrow$  **POWER** (on)

#### General

## $\textcircled{\ } \textbf{MENU} \longrightarrow \textbf{System} \rightarrow \textbf{General} \rightarrow \textbf{ENTER} \textcircled{\ }$

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

## NOTE

- Precautions and limitations for Game Mode:
- Before disconnecting a game console and connecting another external device, set Game Mode to Off.
- If you display the TV menu in Game Mode, the screen shakes slightly.

- Game Mode is not available when you've set the input source to TV.
- Set Game Mode to On only after connecting a game console. If you turn Game Mode on before you have attached the game console, you may notice reduced picture quality.
- If Game Mode is On:
- Picture Mode is set to Standard and Sound Mode is set to Movie.
- Panel Lock: Lock or unlock all the keys on the panel.
- Boot Logo: Enable/disable displaying the logo while the TV starts up.

#### DivX® Video On Demand



Shows the registration code authorized for the TV. If you connect to the DivX web site and register with 10-digit registration code, you can download the VOD activation file. Once you play it using Media Play, the registration is completed.

For more information about DivX® VOD, visit "http://vod.divx.com".

## ☐ Using the Source List

#### Source List

- $\begin{tabular}{ll} \hline \raggreent \hline \raggre$
- When you press the **SOURCE** button, the **Source** screen is displayed at once.
- You can only choose external devices that are connected to the TV. In the Source list, connected inputs are highlighted.
- For detailed information, refer to "Changing the Input Source" in the paper User Manual.

# ☐ Connecting a USB Device

- **1.** Turn on your TV.
- 2. Connect a USB device containing photo, music, or movie files to the USB port on the side of the TV.
- 3. A pop-up window appears. Select Photos, Videos, or Music, and then press the ENTER → button.
- 4. The Content screen appears, listing the contents of the device. Depending on how the contents is arranged, you will see either folders, individual files, or both.
- 5. If necessary, use the  $\triangle/\nabla/\blacktriangleleft/\triangleright$  buttons to select a folder, and then press the **ENTER** button.

- 6. Select a file to view or play, and then press the ENTER → button.
- 7. For information about controlling playback, go to "Using Media Play" in the e-Manual.
- 8. Press the **RETURN** button to exit a current screen and go to the previous screen. Press the **EXIT** button to exit to the TV screen.
- **9.** To disconnect the USB device, go to Disconnecting a USB Device in the e-Manual.
- Even though the player will display folders for all Content Types, it will only display files of the Content Type (Photos, Videos, or Music) you selected in Step 3. For example, if you selected Music, you will only be able to see music files. You can change this by pressing the **RETURN** button until you are back at the Content Type Selection screen, and then selecting the Content Type (Photos, Videos, or Music) again.

- The TV may not be able to play unlicensed multimedia files properly.
- What you need to know before using a USB Device.
  - MTP (Media Transfer Protocol) is not supported.
  - Supported file systems are FAT and exFAT.
  - Certain types of USB Digital camera and audio devices may not be compatible with this TV.
  - The TV only supports sequential jpeg format.
  - The TV only supports USB Mass Storage Class (MSC) devices. MSC is a Mass Storage Class Bulk-Only Transport device. Examples of MSCs are Thumb drives and Flash Card Readers. USB HUBs are not supported. Devices should be connected directly to the TV's USB port.

- Before connecting your device to the TV, please back up your files to protect them from damage or loss of data. SAMSUNG is not responsible for any data file damage or data loss.
- The TV does not support HDDs (Hard Disk Drives) connected to the USB port.
- Do not disconnect the USB device while it is loading.
- The higher the resolution of the image, the longer it takes to display on the screen.
- The maximum supported JPEG resolution is 15360 x 8640 pixels.
- The TV displays the "Not Supported File Format" message when it encounters unsupported or corrupt files.
- The USB Videos function does not support the scene search and thumbnail functions.

- MP3 files with DRM that you have downloaded from a commercial site cannot be played. Digital Rights Management (DRM) is a technology that supports the creation, distribution, and management of content in an integrated and comprehensive way, including the protection of the rights and interests of the content providers, the prevention of the illegal copying of contents, as well as managing billings and settlements.
- PTP connection mode is fully available only with digital cameras. When connecting a smartphone or tablet to the TV using PTP mode, it may not be recognized.
- A USB device that requires high power (more than 500mA or 5V) may not be supported.
- If the TV receives no input during time set in Auto Protection Time, the screen saver will run.
- The power-saving mode of some external hard disk drives may be released automatically when connected to the TV.

- If you use a USB extension cable, the TV may not recognize the USB device or may not be able to read the files on the device.
- If a USB device connected to the TV is not recognized, the list of files on the device is corrupted, or a file in the list is not played, connect the USB device to a PC, re-format the device, and then copy the files onto the device again.
- If a file you deleted from your PC is still found on the USB device, reattach the USB device to your PC, delete the file, and then use the "Empty the Recycle Bin" function on the PC to permanently delete the file.
- If the number of files and folders saved on a USB storage device is over approximately 4000, the files and folders may not appear and some folders may not be opened.

### Disconnecting a USB Device

- Press the SOURCE button.
- 2. Select the USB device, and then press the **TOOLS** button. The **Tools** menu appears.
- 3. Select Remove USB, and then wait until the USB device is disconnected. After the device is disconnected, remove the USB device from the TV.
- To remove a USB device from the TV, we recommend that you use the Remove USB function.

# ☐ Using Media Play

### MENU → Applications → Media Play → ENTER

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

- 1. Insert a USB device into the USB jack on the side of the TV.
- 2. Press the **MEDIA.P** button on your remote or select **Media Play** in the TV's menu.
- 3. The Content Type screen appears. Select Photos, Videos, or Music, and then press the ENTER → button.
- **4.** The Content screen appears, listing the contents of the device. Depending on how the contents is arranged, you will see either folders, individual files, or both.

- **4.** If necessary, use the  $\triangle/\nabla/\blacktriangleleft/\triangleright$  buttons to select a folder, and then press the **ENTER** button.
- 5. Select a file to view or play, and then press the ENTER → or ▶ button on your remote.
- 6. For information about controlling playback, go to "Playing selected files" and "Controlling Photo / Video / Music Playback" in the e-Manual.
- 7. Press the **RETURN** button to exit a current screen and go to the previous screen. Press the **EXIT** button to exit to the TV screen.
- 8. To disconnect the USB device, go to "Disconnecting a USB Device" in the e-Manual.



Even though the player will display folders for all Content Types, it will only display files of the Content Type (**Photos**, **Videos**, or **Music**) you selected in Step 3. For example, if you selected Music, you will only be able to see music files. You can change this by pressing the **RETURN** button until you are back at the Content Type Selection screen, and then selecting the Content Type (**Photos**, **Videos**, or **Music**) again.

### Playing selected files (Creating a play list)

These instructions apply to all content, Photos, Videos, and Music.

- On a screen displaying content, press the ▲ button to select Options at the top right of the screen, and then select Play Selected.
- 2. Select the desired files.
  - A check appears to the left of each selected file.
  - Press the **ENTER** button again to deselect the file.
- 3. Press the ▲ button to select Play at the top of the screen, and then press the ENTER → button. The files you selected play.
  - You can select or deselect all files by selecting Select All / Deselect All, and then pressing the ENTER button.

# □ Controlling Photo / Video / Music Playback

When playing a video or photo file, press the **ENTER** button to display the playback controls. The playback controls for music are displayed at the bottom left of the screen automatically when you play a music file.

- If the option menu is not displayed, press the **TOOLS** button.
- You can also use ▶/Ⅲ/▶/ buttons on the remote control during playback to control playback.
- If you press the **INFO** button during playback, you can view the playback information.

### Playback controls

These buttons appear on the bottom of the screen when you press the **ENTER** button while playing back photos or videos. Some are displayed automatically when you play a music file.

Button	Operation	Photos	Videos	Music
<b>(</b> / <b>)</b>	Previous / Next			
<b>&gt;</b> / <b>II</b>	Start Slide Show / Stop Slide Show	•		
	Play / Pause	Mini Player*	•	•
<b>K</b> / <b>M</b>	Previous / Next	Mini Player*	•	•
<b>4</b> / <b>&gt;</b>	Rewind / Fast forward •		•	

<sup>\*</sup> When you set Background Music to Mini Player in Photos, these buttons appear.

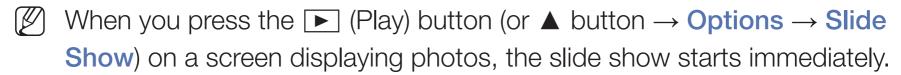
### **Content Settings buttons**

#### Photos

These buttons appear on the bottom of the screen when you press the **ENTER** button while playing back photos.

Button	Operation	
	Slideshow Settings	You can set the <b>Speed</b> and <b>Effects</b> during the slide show.
( <del>Q</del> )	Zoom	You can zoom into (enlarge) images in full screen mode.
	Rotate	You can rotate images in full screen mode.
	Background Music / Mini Player	You can set background music when watching a slide show. / You can control simple playback menus.
₩.	Settings	Picture Mode / Sound Mode: You can select the picture or sound mode (Dynamic, Standard, etc./Standard, Movie, etc.)
		Information: You can see detailed information about the file being played.





During the slide show, you can adjust the slide show speed using ◄ (REW) or ► (FF) button.

Supported Photo Formats

For the details, refer to "Specifications" in the paper user's manual.

### Videos

These buttons appear on the bottom of the screen when you press the **ENTER** button while playing back videos.

Button	Operation		
Q	Search	Search Titles: You can select and start other video files directly.	
		Search Time bar: You can search the video using the ◀ and ▶ buttons at one minute interval or by entering a time value directly.	
		The Search Time bar may not be supported depending on the input source.	
<b>(4)</b>	Repeat Mode	You can automatically play movie files repeatedly.	
	Picture Size	You can adjust the picture size to your preference.	

Button	Operation		
数	Settings	Subtitle Settings: You can play a video with subtitles. This function only works if the subtitles have the same file name as the video. For example, Bats.mp4 and Bats.smi	
		Picture Mode / Sound Mode: You can select the picture or sound mode (Dynamic, Standard, etc./Standard, Movie, etc.)	
		Audio Language: You can change the audio language if the video has more than one language.	
		Information: You can see detailed information about the file being played.	



In video playback mode, you can watch movie clips contained in a game, but you cannot play the game itself.

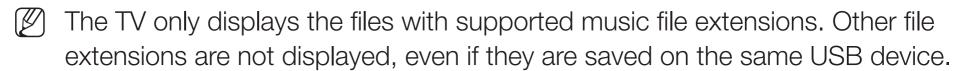
Supported Subtitle / Video Formats

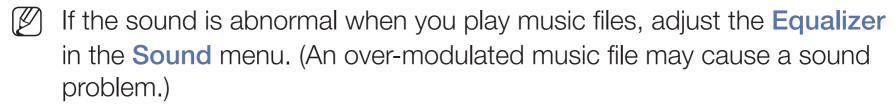
For the details, refer to "Specifications" in the paper user's manual.

#### Music

These buttons appear automatically on the bottom left of the screen when you play a music file.

Button	Operation		
	Repeat	You can automatically play music files repeatedly.	
[D\$]	Shuffle	You can play the music files randomly.	
	Sound Mode	You can select the sound mode (Standard, Movie, etc.).	





### Supported Music Formats

For the details, refer to "Specifications" in the paper user's manual.

### Setting the Encoding language

Set the encoding language if the text you want to view does not appear correctly.

- Press the ▲ button to select Options at the top of music main screen and select Encoding.
- 2. Select the desired encoding language.

## □ Using the 3D function

for PDP 4900 / LED 6100 series

### Viewing TV using the 3D function

IMPORTANT HEALTH AND SAFETY INFORMATION FOR 3D PICTURES.

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

### **MARNING**

- Some viewers may experience discomfort while viewing 3D TV such as dizziness, nausea and headaches. If you experience any such symptoms, stop viewing 3D TV, remove the 3D Active Glasses and rest.
- Watching 3D images for an extended period of time may cause eye strain. If you feel eye strain, stop viewing 3D TV, remove your 3D Active Glasses and rest.

- A responsible adult should frequently check on children who are using the 3D function. If there are any reports of tired eyes, headaches, dizziness, or nausea, have the child stop viewing 3D TV and rest.
- Do not use the 3D Active Glasses for other purposes (such as general eyeglasses, sunglasses, protective goggles, etc.)
- Do not use the 3D function or 3D Active Glasses while walking or moving around. Using the 3D function or 3D Active Glasses while moving around may result in injuries due to running into objects, tripping, and/or falling.

#### Before using the 3D function...

- 3D Active Glasses from Samsung's previous product (IR type) or other manufacturers are not supported.
- After the TV is initially powered on, it may take some time until the 3D display is optimized.

- The 3D Active Glasses may not work properly if there is any other 3D product or electronic devices turned on near the glasses or TV. If there is a problem, keep other electronic devices as far away as possible from the 3D Active Glasses.
- Be sure to stay within the viewing angle and optimum TV viewing distance when watching 3D pictures. Otherwise, you may not be able to enjoy proper 3D effects.
- The ideal viewing distance is three times or more the height of the screen. We recommend sitting with your eyes level with the screen.
- If you can not play 3D videos on your Blu-ray player, take out the disk and then put it in again, or restart the Blu-ray player.

### 3D

### P MENU $\longrightarrow$ Picture $\rightarrow$ 3D $\rightarrow$ ENTER

This exciting new feature enables you to view 3D content.

- Full HD 3D Glasses™ Logo indicates compatibility between display products and 3D Glasses which are compliant with the "Full HD 3D Glasses™ format, and does not indicate the picture quality of display products.
- Some 3D modes may not be available depending on the format of the image source.
- When you watch 3D images under flickering lighting such as a fluorescent lamp (50Hz ~ 60Hz) or a 3 wavelength lamp, you may notice some screen flickering. If this occurs, dim or turn off the light.

#### 3D Mode

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

	3D Mode	Operation	
Off	Off	Turns the 3D function off.	
2D→3D	2D → 3D	Changes a 2D image to 3D.	
* *	Side by Side	Displays two images next to each other.	
*	Top & Bottom	Displays one image above another.	



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

- 3D Perspective: Adjust the overall 3D perspective of the on-screen image.
- Depth: Adjust overall depth.
- L/R Change: Swap the left and right pictures.
- 3D → 2D: Displays the image for the left eye only.
  - This function is deactivated when 3D Mode set to " , or " of ".

## Supported resolutions (16:9 only)

### HDMI

Source	Resolution	Frequency (Hz)
* * / *	1280 x 720p	59.94 / 60 Hz
/ m	1920 x 1080i	59.94 / 60 Hz
	1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60 Hz
Frame Packing	1280 x 720p	59.94 / 60 Hz
	1920 x 1080i	59.94 / 60 Hz
	1920 x 1080p	23.98 / 24 / 29.97 / 30 Hz

### Components & DTV

Source	Resolution	Frequency (Hz)
Components	1280 x 720p	59.94 / 60 Hz
	1920 x 1080i	59.94 / 60 Hz
	1920 x 1080p	23.98 / 24 / 29.97 / 30 / 59.94 / 60 Hz
DTV	1280 x 720p	59.94 / 60 Hz
	1920 x 1080i	59.94 / 60 Hz

### Videos / Photos (In Media Play)

For the details, refer to "Specifications" in the paper user's manual.

- ☐ Viewing the e-Manual
- e-Manual

You can read instructions that explain how to use the features of your TV.

For detailed information about using the e-Manual Screen, refer to "How to view the e-Manual" in the paper user's manual.

- Using Self Diagnosis
- Self Diagnosis
  - $\textcircled{MENU} \longrightarrow \textbf{Support} \rightarrow \textbf{Self Diagnosis} \rightarrow \textbf{ENTER} \textcircled{-}$
  - Picture Test: Use to check for picture problems. Picture test displays a high definition picture that you can examine for flaws or faults.
    - Yes: Select Yes if the test picture does not appear or there is noise or distortion in the test picture. There may be a problem with the TV. Contact Samsung's Call Center for assistance.

No: Select No if the test picture displays properly. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Sound Test: Use to check for sound problems. Sound test plays a built-in melody that tests both speakers.
  - If you hear no sound from the TV's speakers, make sure **Speaker Select** is set to **TV Speaker** in the **Sound** menu and then try the speakers again before performing the sound test.
  - You will hear the melody during the test even if you have set **Speaker Select** to **External Speaker** or have muted the sound by pressing the **MUTE** button.

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

**No**: Select No if you can hear sound from the speakers. There may be a problem with your external equipment. Please check your connections. If the problem persists, refer to the external device's user manual.

- Signal Information: (digital channels only) The reception quality of overthe-air HD channels is either perfect or the channels are unavailable. Signal Information displays HD channel signal strength so you can adjust your antenna to increase signal strength and receive HD channels.
- Reset: Reset all settings to the factory defaults except network settings.
  - The PIN input screen appears before the setup screen.
  - Enter your 4-digit PIN or the default PIN (0000) if you have not set your own PIN. You can change the PIN using the Change PIN option. (MENU → System → Change PIN → ENTER →)

- Updating the Software
- Software Update

The **Software Update** menu lets you upgrade your TV's software to the latest version.

Current ver.: This is the software version already installed in the TV.

 Update now: You can perform a Software Update by downloading the latest firmware from www.samsung.com to a USB memory device, attaching the device to your TV, and then selecting Update now.

### To upgrade the software, follow these steps:

- **1.** Visit www.samsung.com.
- 2. Click **SUPPORT** on the top right of the page.
- 3. Enter the product's model number into the search field. As you enter the model number, a drop down will display products that match the model number.
- 4. Left click your product's model number in the drop down list.
- On the page that appears, scroll down to and then click Firmware Manuals & Downloads.
- **6.** Click **Firmware** in the center of the page.
- 7. Click the ZIP button in the File column on the right side of the page.
- 8. Click Send in the first pop-up that appears. Click **OK** in the second pop-up to download and save the firmware file to your PC.

- **9.** Unzip the zip archive to your computer. You should have a single folder with the same name as the zip file.
- **10.** Copy the folder to a USB flash drive.
- **11.** In the product's menu, go to **Support** → **Software Update**.
- 12. Select Update now.
- **13.** The product searches for the software on the USB drive. When it finds the software, the **Update Request** pop-up appears.
- **14.** Select **OK**. The product upgrades the software, turns off, and then turns on automatically.
- Be careful not to turn off the power until the update is complete. The TV will turn off and on automatically after completing the firmware update. When you update software, all video and audio settings you have made will return to their default settings. We advise you to write down your settings so that you can easily reset them after the update.

- □ Changing the Use Mode
- Use Mode
  - $\textcircled{\begin{tabular}{ll} \ragged MENU \hline $\square$ } \to Support \to Use\ Mode \to ENTER \ragged \ragge$

Select the **Use Mode** suitable for the location in which you will use the TV. We strongly recommend you select **Home Use**.

- If your TV has been unintentionally set to **Store Demo**, you can change the mode with this option.
- Home Use: Home Use is the default setting.
- Store Demo: Store Demo is for retail environments only. If you select Store Demo, some functions will not work and the picture settings will be reset every 30 minutes.

- Viewing Contact Samsung
- Contact Samsung

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

# Using the Sports Mode

## Sports Mode



This mode provides optimized settings for watching sports.

- This functions is not available on U.S and Canada.
- When the **Sports Mode** is **On**, the picture and sound modes are set to **Stadium** automatically.
- If you turn the TV off while watching **Sports Mode**, the **Sports Mode** will be disable.

# □ Using the Wireless Network

#### for PDP 4900 series

Using a wireless router or modem and the Samsung Wireless LAN Adapter (WIS09ABGNX, WIS12ABGNX), you can connect your TV to a wireless network.

- For detailed information about the wireless network connection, refer to the paper user's manual.
- NOTE
  - If the wireless router or modem supports DHCP, your TV can use a DHCP or static IP address to connect to the wireless network.
  - Select a channel for the wireless router or modem that is not currently being used. If the channel set for the wireless router or modem is currently being used by another device nearby, this will result in interference and communication failure.

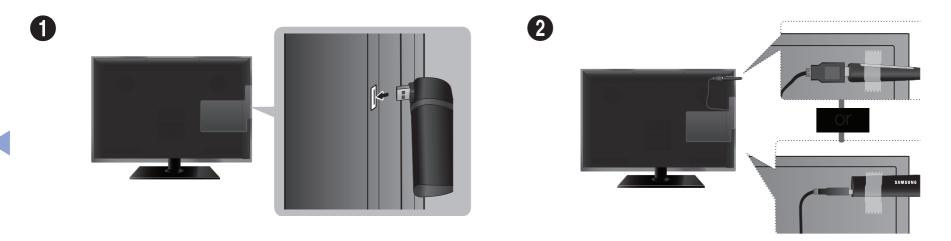
- You must use the "Samsung Wireless LAN Adapter" (WIS09ABGNX, WIS12ABGNX) to connect the TV to a wireless network. The Samsung Wireless LAN Adapter and the USB extension Cable are sold separately and are offered by selected retailers, E-commerce sites, and SamsungParts.com.
- Your TV supports only the following wireless network security protocols.
  - Authentication Mode: WEP, WPAPSK, WPA2PSK
  - Encryption Type: WEP, TKIP, AES
- If you select the HIGH PURE THROUGHPUT (Greenfield) 802.11n mode and the Encryption type is set to WEP or TKIP in your wireless router, Samsung TVs will not support a connection in compliance with new Wi-Fi certification specifications.
- If your wireless router supports WPS (Wi-Fi Protected Setup), you can connect to the network via PBC (Push Button Configuration) or PIN (Personal Identification Number). WPS will automatically configure the SSID and WPA key in either mode.

- If your router, modem, or device is not certified, it may not connect to the TV via the "Samsung Wireless LAN Adapter".
- Connection Methods: You can setup the wireless network connection in four ways:
  - Auto Setup (Using the Auto Network Search function)
  - Manual Setup
  - WPS(PBC)
  - Wi-Fi Direct
- Ensure the TV is turned off before you connect the Samsung Wireless LAN Adapter.
- 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.

### How to connect the Samsung Wireless LAN Adapter

You can connect the LAN Adapter in one of two ways:

- 1 Connect the LAN Adapter using the USB right angle adapter.
- 2 Connect the LAN Adapter via the USB extension cable.



- The picture may appear corrupted or have static for some channels when the TV is connected to the Samsung Wireless LAN Adapter. In such a case, connect the Samsung Wireless LAN Adapter using the USB extension cable. Put the Adapter in a place where it does not affect the picture.
- The position of the USB port may differ depending on the model.

#### Network Status



You can check the your TV's current network and Internet status.

# Network Settings

 $\begin{tabular}{ll} \hline \ragged MENU \hline \hline \hline \hline \rightarrow Network \rightarrow Network \ Settings \rightarrow ENTER \hline \ragged \hline \hline \end{tabular}$ 

Set the network connection to use AllShare™.

You can only use the Internet to share content via AllShare™.

## Auto Network Setup

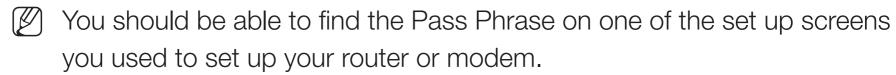
Most wireless networks have an optional security system that requires devices that access the network to transmit an encrypted security code called an Access or Security Key. The Security Key is based on a Pass Phrase, typically a word or a series of letters and numbers of a specified length you were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

- When you connect the Samsung Wireless LAN Adapter for the first time, the Network setup screen appears immediately.
- In the TV's menu, go to Network Settings screen.
   (Network → Network Settings)

- 2. The Network function searches for available wireless networks. When done, it displays a list of the available networks.
- 3. In the list of networks, press the ▲/▼ buttons to select a network, and then press ENTER → button.
  - If the wireless router is set to Hidden (Invisible), you have to select **Add**Network, and then enter the correct network name and Security key to establish the connection.
- **4.** If the Enter security key screen appears, go to step 5. If you select a wireless router that does not have wireless security, go to step 6.







- **6.** The network connection screen appears, and network set up is done.
  - If the Security key you enter fails, select Retry or IP Settings.
  - If you want to set up the connection manually, select IP Settings. For detailed manual set up instructions, refer to "Manual Network Setup".
  - If you select **Change Network**, you can select other wireless networks.

### WPS(PBC) Wireless Setup

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

- In the TV's menu, go to the Network Settings screen.
   (Network → Network Settings)
- 2. The Network function searches for available wireless networks. When done, it displays a list of the available networks.
- 3. Scroll through the list. Find, and then select WPS(PBC).
- **4.** 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.
- **5.** The network connection screen appears, and network set up is done.

### Manual Network Setup

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

You can get the network connection values from you Internet provider.

#### How to set up manually

To set up your TV's wireless network connection manually, follow these steps.

1. In the TV's menu, go to the **Network Settings** screen.

(Network → Network Settings)

- 2. The network function searches for available wireless networks. When done, it displays a list of the available networks.
- 3. In the list of networks, select a network you want to connect to.
  - 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.

- **4.** If the Enter security key screen appears, go to step 5. If you select a wireless router that does not have wireless security, go to step 7.
- **5.** To set wireless security for the router, enter the Security Key.
  - Enter the Security Key using the keyboard pop-up screen and your remote.
  - You should be able to find the Pass Phrase on one of the set up screens you used to set up your router.
- **6.** When finished, select **Done**. The network connection screen appears and the verification process starts.
- 7. Select Stop. The verification process stops. Select IP Settings on the network connection screen. The IP Settings screen appears.
- 8 Select IP Setting, and then set IP Setting to Enter manually.
- Go to the IP Address entry field, and then select IP Address using your remote.

- **10.** Enter the first portion of the IP Address (for example, 105) into the first entry field using your remote. When done, go to the next field.
- 11. Enter the next portion of the IP Address. When done, go to the next field.
- 12. 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.
- 13. When done, go to the Subnet Mask fields.
- 14. Repeat the same entry process for Subnet Mask, Gateway, and DNS Server.
- 15. When done, select OK. The network connection screen appears and the verification process starts. When the connection has been verified, the "Your wireless network and Internet connection are setup and ready to use." message appears.

#### If Your TV Fails to Connect to the Internet

If your TV fails to connect to the Internet, read the information below and view the troubleshooting guide on the following pages.

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.

### Troubleshooting a wireless network connection failure

If the wireless network connection fails, try the following solutions:

Issue	Solutions and Explanations
Wireless network connection failed.	<ul> <li>No wireless router selected. Go to Network Settings to select your router.</li> </ul>
Unable to connect to wireless router.	<ul> <li>Check if the router is turned on, and if it is on, try turning it off and on again.</li> <li>Check if you need to enter a security key to use the router.</li> </ul>

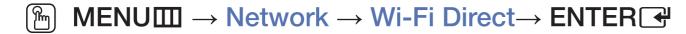
Issue	Solutions and Explanations
IP auto setting failed.	<ul> <li>Try the following to set your IP address automatically or set your IP address manually by selecting IP Settings.</li> <li>Ensure DHCP server is enabled on the router, and then unplug and plug-in the router.</li> </ul>
	- Check if you need to enter a security key to use the router.
	- Contact your Internet Service Provider for more information.
Unable to connect to	Check if your IP address is set correctly in IP Settings.
the network.	Check if you need to enter a security key to use the router.
	Contact your Internet Service Provider for more information.

Issue	Solutions and Explanations
Connected to your local network, but cannot connect to the Internet.	<ul> <li>Make sure your Internet LAN cable is connected correctly to the LAN port of the router.</li> </ul>
	Check the DNS settings in IP Settings.
	If the problem persists, contact your Internet Service Provider to access the Internet.
Network setup complete, but cannot connect to the Internet.	Confirm that your router is connected to the Internet.
	• If the problem persists, contact your Internet Service Provider to access the Internet.

# □ Managing the Network Connected Devices

for PDP 4900 series

### Wi-Fi Direct



Use to connect the TV to wireless mobile devices. Using this function, you can connect wireless mobile devices with your TV directly without a wireless router.

- You can use this function only when the Samsung Wireless LAN Adapter is connected to the TV.
- Wi-Fi Direct only supports the Media Play function.
- Wi-Fi Direct may not be supported by your mobile device, depending on the device.

## How to connect a device to your TV using the Wi-Fi Direct function

- To use this function, you must turn on the Wi-Fi Direct function on your device.
- In the TV's menu, go to Wi-Fi Direct. The TV starts to search for devices.
   (Network → Wi-Fi Direct)
- 2. Select a device from the list that the TV displays, and then press **ENTER** button.
- 3. When the connection message appears on your device, allow it.
- If you want to disconnect the device, select the connected device, and press the **ENTER** button to select **Disconnect**.

## AllShare Settings



Lets you allow a network connected device such as a smartphone or tablet to share content with or control the TV using an application downloaded to the mobile device. For details on set up options, refer to the "Using the AllShare Settings Functions".

### Device Name

MENU → Network → Device Name → ENTER

Change the TV's name.

When selecting **User Input**, you can key in a name for your TV manually. Use ▲/▼/◄/▶ buttons to select characters, and then select **Done**.

# Using the DLNA Functions (AllShare™)

#### for PDP 4900 series

Via your network, you can play videos, photos, and music saved on your mobile phone or on other devices (such as your PC) through your TV, and control playback using controls on the TV via the network.

## NOTE

- This model only supports the DLNA function in AllShare™.
- First, connect your TV to your network. For detailed network connection instructions, refer to "Network Settings".
- For more information, visit "www.samsung.com" or contact the Samsung call center. Mobile devices may need additional software installed. For details, refer to each device's user's guide.
- If your Samsung TV connects to a non-Samsung DLNA server, a compatibility issue may occur during video playback.

- By connecting your Samsung TV to a network via AllShare™, you can use Samsung's original functions, controls, and capabilities as follows:
- Playback of various video formats (DivX, MP4, 3GPP, AVI, ASF, MKV, etc.)
- Bookmark function (to resume video playback)
- Auto-chaptering (scene navigation)
- Digital content management
- Compatibility with various subtitle formats (SRT, SMI, SUB, TXT, TTXT)
- And many others

) To use Samsung's original DLNA functions fully, we recommend that you use the AllShare™ software provided with your TV.

### Playing the media contents saved on the devices

- 1. Connect a mobile phone or another device which supports AllShare™ to your network, and then select and play a media file on the device. A popup screen appears on the bottom of your TV.
- 2. Select Allow to accept the connected device. The media contents of the device can now be played on your TV.
  - You can find the allowed devices on AllShare Settings.

Using the Media Play function, play the media contents of the devices connected to your TV through AllShare™.

- 1. Press the MEDIA.P button to select Media Play.
- 2. Press ▲/▼ button to select the desired category (Videos, Photos, or Music), and then press the ENTER → button.
- 3. When the DLNA device is selected, press the ENTER → button again.
- **4.** Press the  $\triangle/\nabla/\blacktriangleleft/\triangleright$  button to select the desired file.
- **5.** Press the **ENTER** button.



- Contents may not play on your TV depending on their resolution and format.
- The ENTER → and 
   buttons may not work depending on the type of media content.
- Using the mobile device, you can control the media playback. For details, refer to each device's user's guide.

## Using the AllShare Settings function



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

- The **AllShare Settings** function is available in all devices which support DLNA DMC.
- Allow / Deny: Allows/Blocks the devices.
- Delete: Deletes the devices from the list.
  - This function only deletes the name of the devices from the list. If the deleted device is turned on or tries to connect to the TV, it may appear on the list again.

## Connecting to a PC through your network

You can play pictures, music, and videos saved on your PC via a network connection through your TV using **Media Play**.

- If you want to use **Media Play** to play files saved on your PC through your TV, you should download "AllShare PC Software" and the AllShare user's manual from "www.samsung.com".
- **1.** Connect your TV to your network. For network connection instructions, refer to "Network Settings".
  - We recommend you locate both TV and PC in same subnet. The first 3 parts of the IP address of the TV and PC should be the same and only the last part (the host address) should be changed. (e.g. IP Address: 123.456.789.\*\*\*)

- 2. Connect the PC on which you will install or have installed AllShare PC software and your TV to the same network.
- Functions that are not supported by **Media Play** when the TV is connected to a PC through a network:
  - Background music when playing a slide show.
  - The ◀ (REW) or ▶ (FF) button while a movie is playing.
- The DivX DRM, Multi-audio, embedded caption is not supported.
- Make sure AllShare PC Software is permitted by the firewall program on your PC.

- When you use **Media Play** through a network connection, depending on the functions of the server:
- The sorting method may vary.
- The ◀◀ (REW), ▶▶ (FF) or Ⅲ (Pause) buttons may not work depending on the content information.
- When you play video through a network, the video may not run depending on the network status. Also, when you play video over a network connection, the video may not play smoothly.