

# PDP-MONITOR (PLASMA DISPLAY PANEL) PS42D4ST

# **Owner's Instructions**

Before operating the unit, please read this manual thoroughly, and retain it for future reference.

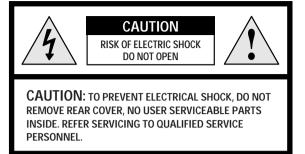
**Intended for Commercial Use and Operation** 

ON-SCREEN MENUS
PICTURE IN PICTURE (PIP)
MDC (MULTIPLE DISPLAY CONTROL)

DNIe™

### Warning! Important Safety Instructions





The lightning flash and arrow head within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.



**Note to CATV system installer:** This reminder is provided to call CATV system installer's attention to Article 820-40 of the National Electrical Code (Section 54 of Canadian Electrical Code, Part I), that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

**Caution:** FCC/CSA regulations state that any unauthorized changes or modifications to this equipment may void the user's authority to operate it.

Caution: To prevent electric shock, match the wide blade of plug to the wide slot, and fully insert the plug.

**Attention:** pour eviter les chocs electriques, introduire la lame le plus large de la fiche dans la borne correspondante de la prise et pousser jusqu'au fond.

**Important:** One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR ELECTRIC SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

# Important Warranty Information Regarding PDP Format Viewing



Wide screen format PDP 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 constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on non-expanded standard format PDP video and programming, should be limited to no more than 5% of the total PDP 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 PDP displays. Displaying stationary images that exceed the above guidelines can cause uneven aging of PDP Displays that leave subtle, but permanent burned-in ghost images in the PDP picture. To avoid this, vary the programming and images, and primarily display full screen moving images, not stationary patterns or dark bars. On PDP 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 PDP formats used for viewing. Uneven PDP aging as a result of format selection and use, as well as burned-in images, are not covered by your Samsung limited warranty.

### **User Instructions**



### ◆ Screen Image retention

Do not display a still image (such as on a video game or when hooking up a PC to this PDP) on the plasma display panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of this screen when displaying a still image.

### ◆ Cell Defect

The plasma display panel consists of fine cells. Although the panels are produced with more than 99.9 percent active cells, there may be some cells that do not produce light or remain lit.

### ♦ Height

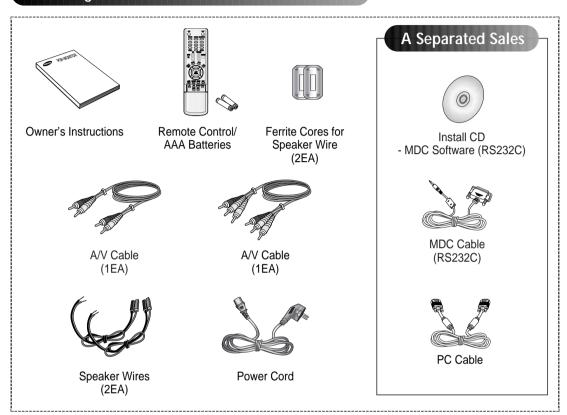
The PDP can normally operate only under 2000m in height. It might abnormally function at a place over 2000m in height and do not install and operate there.

### ♦ Warranty

- Warranty does not cover any damage caused by image retention.
- Burn-in is not covered by the warranty.



### **Checking Parts**



The PS42D4ST model uses the same MDC program CD used for PS42P3ST model.

### DNIe™ (Digital Natural Image engine) DNIe™

This feature bring you more detailed image with 3D noise reduction, detail enhancement, contrast enhancement and white enhancement. New image compensation Algorithm gives brighter, clearer, much detailed image to you. DNIe™ technology will fit every signals into your eyes.



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Symbols Press Important Note

# Your New Plasma Display Panel



The actual configuration on your PDP may be different, depending on your model.

### Front Panel





### $\oplus$

### **SOURCE**

- External input selection.
- Store your settings in the menu.
- When the Main menu is displayed on screen, the Main menu is not operated with source key.

### **MENU**

Menu display and exit.

- VOL +
- Volume adjustment.
- Adjust an option value respectively.

(VOL + : Enter to the selected menu.)

### ▼ SELECT ▲

Control the cursor in the menu.

### 1/ O

Press to turn the PDP on and off.



### **Power Indicator**

- Power Off; Red
- Power On; Off
- Timer On; Green



### Remote Control Signal Receiver

Aim the remote control towards this spot on the PDP.

# Your New Plasma Display Panel

The actual configuration on your PDP may be different, depending on your model.



### Rear Panel

For further details about connection, refer to pages 34~36.



### a) RS232C

- IN: Used for the MDC function when connecting PC or RS232C output of another PDP.
- OUT : Used for the MDC function when connecting with RS232C input of another PDP.

### b) DVI IN

Connect to the video output jack for device with DVI output.

### c) AUDIO

Connect to the audio output jack on your PC or any device with DVI output. (It is audio input for  ${\bf b},\,{\bf d},$  and  ${\bf e}.)$ 

### d) RGB(PC) IN

Connect to the video output jack on your PC.

### e) VIDEO IN

Video and audio inputs for external devices, such as VCR, DVD, video game device or video disc players (or for external devices with an S-Video output; S-VIDEO).

### f) COMPONENT IN

Video (Y/Pb/Pr) and audio (L/R) inputs for component.

### q) VIDEO OUT (VIDEO / L-AUDIO-R)

Used to output screen of Video or S-Video in PDP when connecting video and/or audio input of external devices.

### h) EXT SPEAKER (8 $\Omega$ )

Connect external speakers.

### i) POWER IN

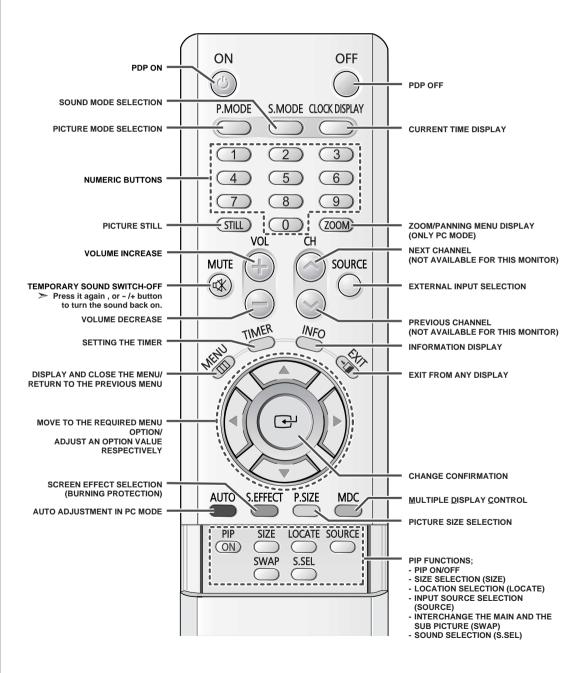
Connect the supplied power cord.

# Becoming Familiar with the Remote Control



The remote control is used mainly to:

- ◆ Change sources and adjust the volume
- ◆ Set up the PDP using the on-screen menu system



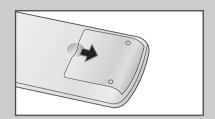
The performance of the remote control may be affected by bright light.

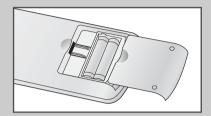
# **Inserting the Batteries in the Remote Control**

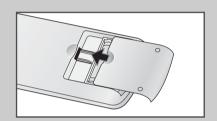
ENG

You must insert or replace the batteries in the remote control when you:

- Purchase the PDP
- Find that the remote control is no longer operating correctly
- 1 Remove the cover on the rear of the remote control by pressing the symbol downwards and then pulling firmly to remove it.
- Insert two R03, UM4, "AAA" 1.5V or equivalent batteries taking care to respect the polarities:
  - on the battery against on the remote control
  - ♦ + on the battery against + on the remote control
- 3 Replace the cover by aligning it with the base of the remote control and pressing it back into place.



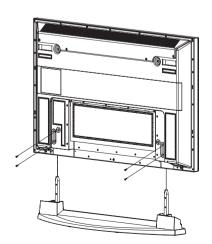




### **Assembling the Stand-Base**

Fit the Stand-Base into the guide hole on the bottom of the monitor and tighten the left and right sides using four screws for each side.

Two or more people should carry the PDP. Never lay the PDP on the floor because of possible damage to the screen. Always store the PDP upright.



### Installing the Display on the Wall Attachment Panel

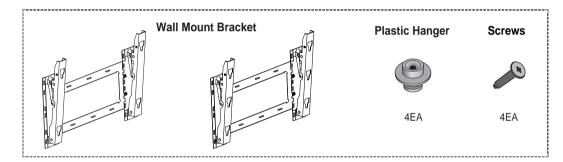


This wall mount bracket installation guide is for the following models: WMN4230
This installation guide may be different from the PDP User's manual. Please refer to the proper installation guide for your product.

### **Installation Notes**

- Do not install the PDP on any place other than vertical walls.
- ◆ To protect the performance of the PDP and prevent troubles, avoid the followings:
  - Do not install next to smoke and fire detectors.
  - Do not install in an area subjected to vibration or high voltage.
  - Do not install near or around any heating apparatus.
- Use only recommended parts and components.

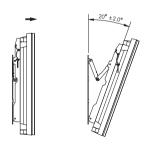
### **Mounting Kits**



### **How to Adjust Mounting Angle**

# (depending on your model)

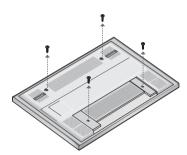
The wall mount bracket is delivered separately. Please tighten the captive screw in the direction of the arrow after assembling the bracket.



- Secure the PDP to the wall mount bracket. (Please refer to the following instructions.)
- Set the angle by pulling the upper end of the PDP attached to bracket in the direction of the arrow.
- The angle can be adjusted from 0° to 20° by +2°.

# Installing the Display on the Wall Attachment Panel

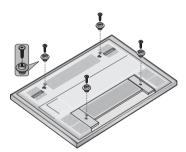
- The exterior of the PDP may be different than the picture. (Assembly and installation of the plastic hanger is the same.)
  - 1 Remove the screws from the back of the PDP.



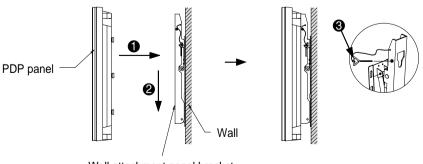
2 Use the screws and assemble the plastic hanger.



- 2
- ♦ Please ask the installers to install the wall mount bracket.
- Please be sure to check if the plastic hanger is completely secured on both the left and right side after hanging the PDP on the wall mount bracket.
- ♦ Please avoid catching your fingers while installing and adjusting the angle.
- ♦ Please tightly secure the wall mount bracket to the wall to avoid injury from a falling PDP.
- 3 Tighten the screws of the plastic hanger to the back side of the PDP.



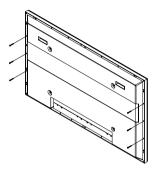
4 Put the 4 pegs on the PDP in the grooves of the wall mount bracket and pull down on the PDP (①) to secure it to the wall mount bracket (②). Tighten the screws as shown (③) so that the PDP cannot be separated from wall mount bracket.



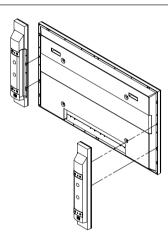
Wall attachment panel bracket



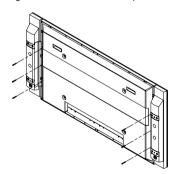
1 Remove the screws on the rear of the PDP.



Hang the two "T" shaped hangers on the square holes on the rear of the PDP.



3 Tighten the PDP and the speaker bracket using the screws removed from the PDP.

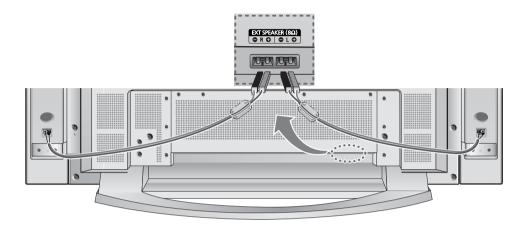


When moving your PDP, do NOT hold the speaker connected to your PDP. It may damage the bracket clamping the speaker and your PDP together and result in a drop of your PDP and a risk of personal damage and injury.

# Connecting Speakers (continued)



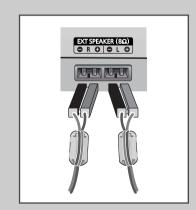
Connect the speaker audio cable to the external speaker output jack on the rear of the PDP matching the "+" and "-" ends of the cable with the diagram on the PDP.



- ➤ The speakers MUST have to a power handling capability of 10 watts minimum (impedance 8Ω).
  - ♦ When you connect the speaker wire to the external speaker out connector, first bind the speaker wire round the ferrite core to secure it.

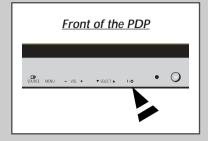
# **Ferrite Cores**

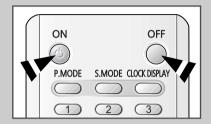
The ferrite cores are used to attenuate undesired signals. When connecting cables, attach one of these ferrite cores to the cable near the connector.



# Switching On and Off







The mains lead is attached to the rear of your PDP.

1 Plug the mains lead into an appropriate socket.

Result: The Standby indicator on the front of the PDP lights up.

- The main voltage is indicated on the rear of the PDP and the frequency is 50 or 60Hz.
- 2 Press the "I/ \( \tilde{\pi} \) "button on the front of the PDP (or **ON** (\( \tilde{\pi} \)) button on the remote control) to switch the PDP on.
- 3 To switch your PDP off, press the "1/ ७" button again (or OFF button on the remote control).

# Choosing Your Language





When you start using your PDP for the first time, you must select the language which will be used for displaying menus and indications.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Function.

Result: The options available in the Function group are displayed.

3 Press the ▶ button.

Result: The Language option is selected.

4 Press the ▶ button again.

Result: The languages available are listed.

- 5 Select the appropriate language by pressing the ▲ or ▼ button repeatedly.
- **6** Press the button to confirm your choice.

### Selecting the Color System (Video or S-Video Mode)



Preset to the Video or S-Video mode by using the SOURCE button.

If necessary, select the broadcasting standard which best corresponds to your viewing requirements.

1 Press the MENU button.

Result: The options available in the Picture group are displayed.

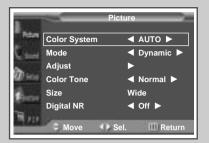
2 Press the ▶ button.

Result: The Color System is selected.

3 Select a required color system by pressing the ◀ or ▶ button.

Result: The following color systems are available.

AUTO - PAL - SECAM - NTSC4.43 - NTSC3.58 - PAL M - PAL N - PAL60



# Changing the Picture Mode

You can select the type of picture which best corresponds to your viewing requirements.

1 Press the **MENU** button.

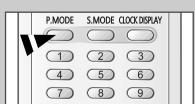
Result: The options available in the Picture group are displayed.

- 2 Press the ▶ button.
- 3 Press the ▲ or ▼ button to select Mode. Select the option by pressing the ◄ or ▶ button.

Result: The following modes are available depending on the input source.

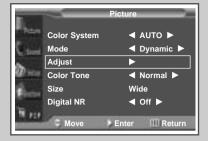
- ♦ Dynamic Standard Movie Custom
- ◆ Custom High Middle Low (PC or DVI Mode)
- You can also set these options simply by pressing the **P.MODE** (Picture Mode) button.





# Adjusting the Picture Settings









Your PDP has several settings which allow you to control picture quality.

1 Press the **MENU** button.

Result: The options available in the Picture group are displayed.

2 Press the ▶ button.

3 Press the ▲ or ▼ button to select Adjust. Press the ▶ button.

Result: The Adjust menu is displayed.

Press the ▲ or ▼ button to select the option (Contrast, Brightness, Sharpness, Color, Tint-NTSC only) to be adjusted. Press the ◀ or ▶ button.

Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

5 When you are satisfied with the settings, press the 🚭 button to store them.

6 Press the **MENU** button.

Result: The options available in the Picture group are displayed again.

7 Press the ▲ or ▼ button to select Color Tone. Select the option by pressing the ◄ or ► button. The color tones are displayed in the following order.

Normal - Warm1 - Warm2 - Cool2 - Cool1

If you make any changes to these settings, the picture mode is automatically switched to the **Custom**.

# Adjusting the Picture Settings (PC or DVI Mode)

- Preset to the PC or DVI mode by using the SOURCE button.
- 1 Press the **MENU** button.

Result: The options available in the Picture group are

displayed.

- 2 Press the ▶ button.
- 3 Press the ▲ or ▼ button to select Adjust. Press the ▶ button.

Result: The Adjust menu is displayed.

Press the ▲ or ▼ button to select the option (Contrast, Brightness, Sharpness) to be adjusted. Press the ◄ or ► button.

Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

- 5 When you are satisfied with the settings, press the button to store them.
- 6 Press the MENU button.

Result: The options available in the Picture group are displayed again.

7 Press the ▲ or ▼ button to select Color Tone. Select the option by pressing the ◄ or ► button. The color tones are displayed in the following order.

Custom (PC mode only) - Color1 - Color2 - Color3

8 Press the ▲ or ▼ button to select color Adjust. Press the ▶ button.

Result: The Color Adjust menu is displayed.

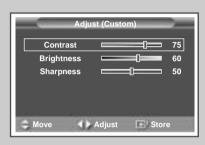
- When select the Color Tone to Custom, the Color Adjust menu is displayed.
  - The Color Adjust menu can not be selected in DVI mode.
- 9 Press the ▲ or ▼ button to select the option (Red, Green, Blue) to be adjusted. Press the ◀ or ▶ button.

Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the  $\blacktriangleleft$  or  $\blacktriangleright$  button.

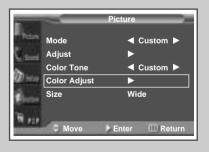
10 When you are satisfied with the settings, press the → button to store them.







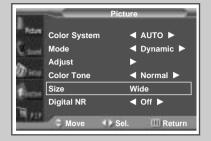






### Selecting the Picture Size









You can select the picture size which best corresponds to your viewing requirements.

1 Press the **MENU** button.

Result: The options available in the Picture group are displayed.

2 Press the ▶ button.

3 Press the ▲ or ▼ button to select Size. Press the ▶ button.

Select the option by pressing the ◀ or ▶ button.

Result: The following modes are available depending on the input source.

♦ Wide - Zoom1 - Zoom2 - 14:9 - Normal

Wide - Panorama (Video or S-Video Mode) Zoom1 - Zoom2 - 14:9 - Normal

The lifting is available in the zoom1, zoom2 or 14:9 mode by pressing the ▼ or ▲ button.

• Wide - Normal (PC or DVI Mode)

You can also set these options simply by pressing the **P.SIZE** button.

# Activating/Deactivating the Digital Noise Reduction Feature



If the signal received by your PDP is weak, you can activate this feature to reduce any static and ghosting that may appear on the screen.

1 Press the **MENU** button.

Result: The options available in the Picture group are displayed.

2 Press the ▶ button.

3 Press the ▲ or ▼ button to select Digital NR.

4 Press the ◀ or ▶ button to change the setting (on or off).

# Freezing the Current Picture



You can freeze the picture when watching a moving picture simply by pressing the "STILL" button. To return to normal viewing, press it again.

In the PIP mode, the main and sub pictures are stilled at the same time.



# Changing the Sound Mode

You can select the type of special sound effect to be used when watching a given broadcast.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select sound.

Result: The options available in the sound group are displayed.

3 Press the ▶ button.

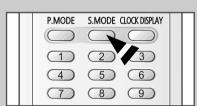
Result: The Mode is selected.

Select the option by pressing the ◀ or ▶ button. The sound effects are displayed in the following order.

Custom - Standard - Music - Movie - Speech

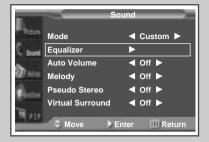
You can also set these options simply by pressing the **S.MODE** (Sound Mode) button.

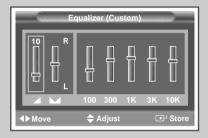




# Adjusting the Sound Settings







The sound settings can be adjusted to suit your personal preferences.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select sound.

Result: The options available in the sound group are displayed.

- 3 Press the ▶ button.
- 4 Press the ▲ or ▼ button to select Equalizer. Press the ▶ button.

Result: The Equalizer menu is displayed with the current option.

- 5 Select the option (volume, balance, equalizer) to be adjusted by pressing the ◀ or ▶ button. Press the ▲ or ▼ button to reach the required setting.
- **6** When you are satisfied with the settings, press the button to store them.
  - If you make any changes to the equalizer settings, the sound mode is automatically switched to the **Custom**.

## Extra Sound Settings

# ENG

### Auto Volume

Each broadcasting station has its own signal conditions, and so it is not easy for you to adjust the volume every time the channel is changed. This feature lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

### ◆ Melody

You can hear clear melody sound when the PDP is powered on or off.

### Pseudo Stereo / Virtual Surround

Pseudo stereo feature converts a monaural sound signal into two identical left and right channels.

Once the Pseudo stereo or Virtual surround is set to On or Off, these settings apply to the sound effects such as Standard, Music, Movie, and Speech.

- 1 Press the **MENU** button.
  - Result: The main menu is displayed.
- 2 Press the ▲ or ▼ button to select sound.
  - Result: The options available in the sound group are displayed.
- 3 Select the required option (Auto Volume, Melody, Pseudo Stereo, Virtual Surround) by pressing the ▲ or ▼ button.
- 4 Press the ◀ or ▶ button to change the setting (off or on).





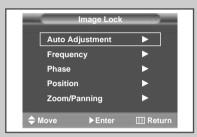




### Adjusting the Image Preferences (PC Mode)

















1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Setup.

Result: The options available in the Setup group are displayed.

3 Press the ▶ button.

Result: The Image Lock is selected.

4 Press the ▶ button again.

Result: The Image Lock menu is displayed with the Auto Adjustment selected.

**5** Press the ▶ button over again.

Result: The screen size and frequency are automatically reset with the Auto Adjustment displayed.

> You can also do simply by pressing the **AUTO** button.

6 Press the ▲ or ▼ button to select Frequency (or Phase). Press the ▶ button.

Result: The horizontal bar is displayed. Move the horizontal bar's cursor left or right by pressing the ◀ or ▶ button.

When you are satisfied with the settings, press the MENU button.
Result: The Image Lock menu is displayed again.

8 Press the ▲ or ▼ button to select Position. Press the ▶ button. Adjust the screen position by pressing the ▲, ▼, ◄, or ▶ button.

9 When you are satisfied with the setting, press the 🚭 button to store.

10 Press the MENU button.

Result: The Image Lock menu is displayed again.

11 Press the ▲ or ▼ button to select Zoom/Panning. Press the ▶ button.

Result: The Zoom/Panning menu is displayed with the Zoom selected.

You can also do simpley by pressing the **ZOOM** button.

12 Press the ◀ or ▶ button to reach the required magnification.

Press the ▲ or ▼ button to select Panning. Move the magnified picture to required position by using pressing the ▲, ▼, ◄, or button.

Press the ▲ or ▼ button to select Reset. Press the ► button. The zoom and panning settings are replaced with the factory default values.

The Panning and Reset menus can be used when value of Zoom is more than 1.

### Locking the Control buttons

ENG

This feature allows you to lock the PDP so that it cannot be switched on via the front panel. It can, however, still be switched on via the remote control. Thus, by keeping the remote control away from unauthorised users.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Setup.

Result: The options available in the **Setup** group are displayed.

3 Press the ▶ button.

4 Press the ▲ or ▼ button to select Key Lock.

5 Press the ◀ or ▶ button to change the setting (On or Off).



# Setting the MDC (Multiple Display Control)

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Setup.

Result: The options available in the Setup group are displayed.

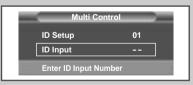
- 3 Press the ▶ button.
- 4 Press the ▲ or ▼ button to select Multi Control.
- **5** Press the ▶ button.

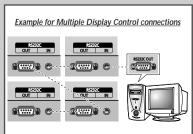
Result: The Multi Control menu is displayed with the ID Setup selected.

- 6 Select the ID setup number by pressing the ◀ or ▶ button.
- 7 Press the ▲ or ▼ button to select ID Input. Enter ID input number by using the numeric buttons.
- To operate the multi control function, PDP1 and PDP2 should be set in the ID Setup mode. When entering the ID Input number of PDP1 while the PDP is set in the ID Input mode, only PDP1 is switched to the Menu screen and you can operate the remote control. At this time, PDP2 doesn't operate with the remote control and displays the standby mode of ID Input.
- For further details, refer to the MDC program guide.
- The PS42D4ST model uses the same MDC program CD used for PS42P3ST model.







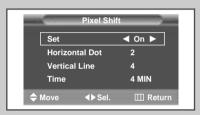


# Protecting the Screen Burning













You can prevent the residual image of the PDP.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Setup.

Result: The options available in the **Setup** group are displayed.

- 3 Press the ▶ button.
- 4 Press the ▲ or ▼ button to select Burning Protection.
- **5** Press the ▶ button.

Result: The Burning Protection menu is displayed with the Pixel Shift selected.

6 Press the ▶ button again.

Result: The Pixel Shift menu is displayed with the Set selected.

> You can also do simply by pressing the **S.EFFECT** button.

- 7 Set to on by pressing the ◀ or ▶ button for making the screen move per regular hour and preventing the residual image.
- 8 Select the option (Horizontal Dot, Vertical Line, Time) to be adjusted by pressing the ▲ or ▼ button. Press the ◄ or ► button to reach the required setting.
  - Optimum condition for pixel shift;

Horizontal Dot	2
Vertical Line	4
Time	4MIN

**9** When you are satisfied with the settings, press the **MENU** button.

Result: The Burning Protection menu is displayed again.

- 10 Press the ▲ or ▼ button to select Signal Pattern. Set to On by pressing the ◄ or ► button for removing the residual image.
- Press the ▲ or ▼ button to select All White. Set to on by pressing the ◄ or ► button for removing the residual image after making the screen white.
  - The **Signal Pattern** and **All White** feature are effective after working for a long time.

# Displaying the PC Information



1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Setup.

Result: The options available in the setup group are displayed.

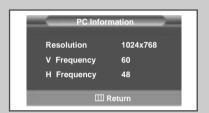
3 Press the ▶ button.

4 Press the ▲ or ▼ button to select Information.

5 Press the ▶ button.

Result: The resolution, vertical frequency and horizontal frequency are displayed.





# Displaying the Setting Information

You can view the setting status you select by pressing the "INFO" button on the remote control.





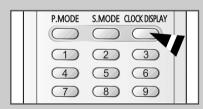
# Setting and Displaying the Current Time











You can set the clock so that the current time is displayed. You must also set the time if you wish to use the automatic on or off timers.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Function.

Result: The options available in the Function group are displayed.

3 Press the ▶ button.

4 Press the ▲ or ▼ button to select Time. Press the ▶ button.

Result: The Time menu is displayed with the Clock option selected.

> You can also do simply by pressing the **TIMER** button.

Fress the ◀ or ▶ button to move to the hour or minute. Set the hour or minute by pressing the ▲ or ▼ button.

Set the clock first! If you have not yet set the clock, you can not set other options of the Time menu.

6 Press the ▲ or ▼ button to select Clock Display.

Set to On by pressing the ◄ or ▶ button for displaying the current time.

You can also do simply by pressing the CLOCK DISPLAY button.

When you are satisfied with the settings, press the button to store them.

## Switching On and Off Automatically



You can set the on or off time so that the PDP will:

- Switch on automatically and tune to the volume of your choice at the time you select
- ◆ Switch off automatically at the time you select
- 1 Press the MENU button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Function.

Result: The options available in the Function group are displayed.

- 3 Press the ▶ button.
- 4 Press the ▲ or ▼ button to select Time. Press the ▶ button.

Result: The Time menu is displayed.

> You can also do simply by pressing the **TIMER** button.

- Fress the ▲ or ▼ button to select Timer. Set to on by pressing the ◀ or ► button for switching on or off automatically.
- 6 Press the ▲ or ▼ button to select On Time Volume. Set the volume by pressing the ◄ or ▶ button for tuning to the volume of your choice at the time switching on.
- 7 Press the ▲ or ▼ button to select on Time. Press the ◀ or ► button to move to the hour or minute. Set the time at which you wish the PDP to be switched on automatically by pressing the ▲ or ▼ button.
- 8 Press the ▲ or ▼ button to select Off Time. In the same above, set the time at which you wish the PDP to be switched off automatically.
- When you are satisfied with the settings, press the button to store them.

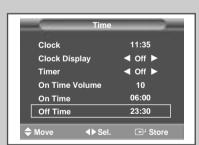
### Absent Power Off

Your PDP will automatically be turned off, if you do not operate any controls during the 3 hours when the "Timer" is set to "On" and the "On Time" is set. However, this feature will not work when the "Off Time" is set. This feature prevents a leakage accident or overheating, caused by your PDP left on for an extended time (when you are away on holiday, for example).









# Setting the Film Mode





When a video input source is from a film such as movies, this feature identifies the source and changes to the corresponding screen.

1 Press the **MENU** button.

Result: The main menu is displayed.

2 Press the ▲ or ▼ button to select Function.

Result: The options available in the Function group are displayed.

- 3 Press the ▶ button.
- 4 Press the ▲ or ▼ button to select Film Mode.
- 5 Press the ◀ or ▶ button to change the setting (on or off).



- If video source is not film, set to off.
- Available in Video, S-Video, and Component (480i) modes.

# Viewing the Picture In Picture (PIP)

ENG

You can display a sub picture within the main picture. In this way you can monitor the video input from any connected devices while monitoring other video input.

1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the ▲ or ▼ button to select PIP.
- 3 Press the ▶ button.

Result: The PIP option is selected.

Set to on by pressing the ◀ or ▶ button for activating the PIP feature.

Result: The options available in the PIP group are displayed.

Fress the ▲ or ▼ button to select sel.. Select a source of the sub picture by pressing the ◄ or ► button.

Result: The sources are displayed in the following order:

- For further details about selecting a source, refer to "Selecting the source of sub picture depending on the source of main picture" on page 32.
- 6 Press the ▲ or ▼ button to select swap. Press the ▶ button.

Result: The main picture and sub picture are interchanged.

7 Press the ▲ or ▼ button to select size. Select a size of the sub picture by pressing the ◀ or ► button.

Result: The sizes are displayed in the following order:

8 Press the ▲ or ▼ button to select Locate. Select a location of the sub picture by pressing the ◀ or ▶ button.





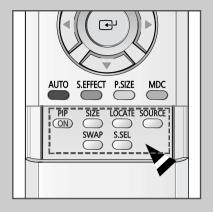






# Viewing the Picture In Picture (PIP) (continued)





### Easy functions of remote control.

Buttons	Feature		
PIP ON	Used to activate or deactivate the PIP feature directly.		
SIZE	Used to select a size of sub picture (Large, Small, Double1, Double2).		
LOCATE	Used to move the sub picture counterclockwise.		
SOURCE	Used to assign a source of sub picture.		
SWAP	Used to interchange the main picture and the sub picture.		
S.SEL	Used to listen the sound of the sub picture.		

### Selecting the source of sub picture depending on the source of main picture

Main picture Sub picture	Video	S-Video	Component	PC	DVI
Video		~	V	<b>V</b>	~
S-Video	V		V	V	~
Component	V	~			
PC	~	~			
DVI	V	~			

## Listening to the Sound of the Sub Picture



During the PIP feature is activating, you can listen to the sound of the sub picture.

1 Press the MENU button.

> The main menu is displayed. Result:

2 Press the ▲ or ▼ button to select PIP.

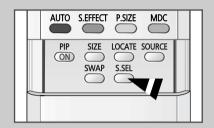
> Result: The options available in the PIP group are displayed.

- 3 Press the ▶ button.
- 4 Press the ▲ or ▼ button to select sound sel.. Set to sub by pressing the ◀ or ▶ button.

You can listen to the sound of the sub picture.

- To listen the sound of current main picture, set to Main.
  - You can also do simply by pressing the **S.SEL** button.





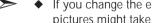
# Viewing Pictures From External Sources

Once you have connected up your various audio and video systems, you can view different sources by selecting the appropriate input.

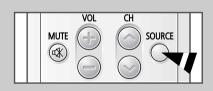
- 1 Check that all the necessary connections have been made.
- 2 Switch your PDP on, then press the SOURCE button.

The input sources available are displayed. Result:

- 3 Press the ▲ or ▼ button to select the required input source.
- 4 Press the 🔂 button to store.



If you change the external source while viewing, pictures might take a short period of time to be switched.





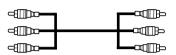
# Connecting to the Audio/Video Input



The "VIDEO IN" connectors are used for the equipment with an Composite Video output, such as video game devices or video disc players.

# Rear of the PDP (Input)

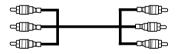




The "VIDEO OUT" connectors are used for the equipment with an Composite Video input, such as a camcorder or VCR.

### Rear of the PDP (Output)







- ① If you have a second VCR and wish to copy cassettes tape, connect the source VCR to "VIDEO IN" and the target VCR to "VIDEO OUT" so that you can redirect the signal from "VIDEO IN" to "VIDEO OUT".
- When you wish to record a programme, connect the receiver to "VIDEO IN" and the VCR to "VIDEO OUT" so that you can redirect the signal from "VIDEO IN" to "VIDEO OUT".



Whenever you connect an audio or video system to your PDP, ensure that <u>all</u> elements are switched <u>off</u>.

Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

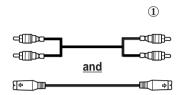
# Connecting to the S-Video Input

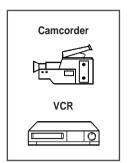


The S-VIDEO and RCA (AUDIO-L/R) connectors are used for equipment with an S-Video output, such as a camcorder or VCR.

### Rear of the PDP





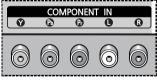


① To play picture and sound, both the S-VIDEO and RCA connectors must be used.

# Connecting to the DVD/DTV RECEIVER Input

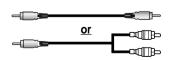
The "COMPONENT IN" (and "AUDIO") connectors are used for equipment with a DVD/ DTV RECEIVER output. (480i, 480p, 720, 1080i)

### Rear of the PDP









Y/Pb/Pr



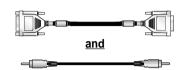
# Connecting to the DVI Input



The "DVI IN" (video) and "AUDIO" connectors are used for equipment with a DVI output.

### Rear of the PDP







# Connecting to the RGB(PC) Input

The "RGB(PC) IN" and "AUDIO" connectors are used for interfacing with your PC.

Rear of the PDP

AUDIO RGB (PC) IN

Personal Computer

## Setting up Your PC Software (Windows only)



The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)



On the windows screen, select in the following sequence: Start  $\rightarrow$  Settings  $\rightarrow$  Control Panel.



When the control panel screen appears, click on **Display** and a display dialog-box will appear.



Select the **Settings** tab in the display dialog-box.

The two key variables that apply the PDP-PC interface are "Resolution" and "Colours".

The correct settings for these two variables are:

- ◆ Size (sometimes called "Resolution")
  - 640 x 480 pixels
- ◆ Colour

**24-bit** colour (might also be expressed as "16 million colours")

Shown at left is a typical screen for "Display" dialog box.

If a vertical-frequency option exists on your display settings dialog box, the correct value is **60 Hz**. Otherwise, just click **OK** and exit the dialog box.

# Pin Configurations



# RGB(PC) Input Connector (15Pin)



Pin	RGB(PC) IN
1	Red (R)
2	Green (G)
3	Blue (B)
4	Grounding
5	Grounding (DDC)
6	Red (R) Grounding
7	Green (G) Grounding
8	Blue (B) Grounding
9	Reserved
10	Sync Grounding
11	Grounding
12	Data (DDC)
13	Horizontal sync.
14	Vertical sync.
15	Clock (DDC)

# RS232C Connector (9Pin)



Pin	Signal
1	Carrier Detect
2	Receive Data
3	Transmit Data
4	Data Terminal Ready
5	System Ground
6	Data Set Ready
7	Request to Send
8	Clear to Send
9	Ring Indicator

# DVI Input Connector (24Pin)



Pin	Signal
1	T.M.D.S. Data2-
2	T.M.D.S. Data2+
3	T.M.D.S. Data2/4 Shield
4	T.M.D.S. Data4-
5	T.M.D.S. Data4+
6	Clock (DDC)
7	Data (DDC)
8	Not Connected
9	T.M.D.S. Data1-
10	T.M.D.S. Data1+
11	T.M.D.S. Data1/3 Shield
12	T.M.D.S. Data3-
13	T.M.D.S. Data3+
14	+5V Power
15	5V Grounding
16	Hot Plug Detect
17	T.M.D.S. Data0-
18	T.M.D.S. Data0+
19	T.M.D.S. Data0/5 Shield
20	T.M.D.S. Data5-
21	T.M.D.S. Data5+
22	T.M.D.S. Clock Shield
23	T.M.D.S. Clock+
24	T.M.D.S. Clock-

# **Input Mode (PC/DVI)**



Both screen position and size will vary depending on the type of PC monitor and its resolution. The table below shows all of the display modes that are supported:

Re	solution	Vertical frequency (Hz)	Horizontal frequency (kHz)	PS42D4ST
VGA	640 x 350	70	31.5	
		85	37.9	
	640 x 400	85	37.9	
	720 x 400	70	31.5	
		85	37.9	
	640 x 480	60	31.5	☺
		72	37.9	
		75	37.5	
		85	43.3	
SVGA	800 x 600	56	35.2	
		60	37.9	©
		72	48.1	
		75	46.9	
		85	53.7	
XGA	1024 x 768	60	48.4	©
		70	56.5	
		75	60.6	
		85	68.7	
WVGA	848 x 480	60	29.8	©
		72	35.1	
		75	36.0	
		85	37.0	
	852 x 480	60	31.8	©
	1152 x 864	75	67.5	*
SXGA	1280 x 1024	60	64.0	*
WXGA	1280 x 768	60	47.7	*

- ◆ "\*" mode does not work with DVI mode.
- ◆ The interlace mode is not supported.
- ♦ The PDP might operate abnormally if a non-standard video format is selected.
- ◆ The 852 x 480 mode is only supported by a particular video card (PIXEL PERFECT made by IMAGINE GRAPHICS Ltd.).
- ◆ A "©" mark means that this mode is recommended.

# Power Saver (PC mode only)



This monitor has a built-in power management system called Power Saver. This power management system saves energy by switching your monitor into a low-power mode when it has not been used for a certain amount of time. This power management system operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature. See the table below for details.

0	Normal Operation	Power-saving Function Mode		
State		Standby Mode	Suspend Mode Position A1	Power-off Mode Position A2
Horizontal Sync	Active	Inactive	Active	Inactive
Vertical Sync	Active	Active	Inactive	Inactive
Video	Active	Blanked	Blanked	Blanked
Power Indicator	Off	Red Blinking	Red Blinking	Red Blinking
		(1 sec Interval)	(1 sec Interval)	(1 sec Interval)

- ◆ This monitor automatically returns to normal operation when horizontal and vertical sync return.
- ♦ This occurs when moving the computer's mouse or pressing a key on the keyboard.
- For energy conservation, turn your monitor OFF when it is not needed, or when leaving it unattended for long periods.

### Troubleshooting: Before Contacting Service Personnel



Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of the PDP and contact your local dealer.

No sound or picture	<ul> <li>Check that the mains lead has been connected to a wall socket.</li> <li>Check that you have pressed the ON or OFF button.</li> <li>Check the picture contrast and brightness settings.</li> <li>Check the volume.</li> </ul>
Normal picture but no sound	<ul> <li>Check the volume.</li> <li>Check whether the volume MUTE button on the remote control has been pressed.</li> </ul>
No picture or black and white picture	<ul> <li>Adjust the color settings.</li> <li>Check that the video system selected is correct.</li> </ul>
Sound and picture interference	Plug your PDP into a different mains socket.
Remote control malfunctions	<ul> <li>Replace the remote control batteries.</li> <li>Clean the upper edge of the remote control (transmission window).</li> <li>Check the battery terminals.</li> </ul>

### Care and Maintenance

### ◆ Identifying Problems

- Do not put the PDP near extremely hot, cold, humid or dusty places.
- Do not put the PDP near appliances that create magnetic fields.
- Keep the ventilation openings clear.
- Do not place the PDP on a rough and slanted surface, such as cloth or paper.

### Liquids

Do not place liquids near or on the PDP.

### ◆ Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your PDP with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

### ◆ Temperature

If your PDP is suddenly moved from a cold to a warm place, unplug the power cord for at least two hours so that moisture that may have formed inside the unit can dry completely.

# Memo



Memo



### - AFTER SALES SERVICE

 Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

