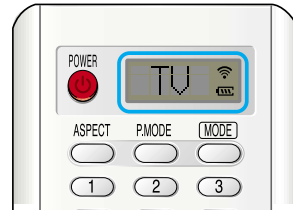# Turning the PDP On and Off

Turning the PDP On and Off

Press the Power button on the remote control.
The PDP will be turned on and you will be ready to use it's features.
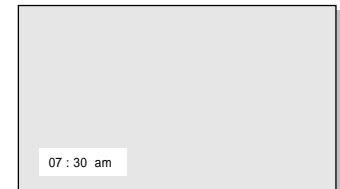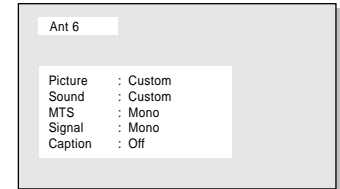You can also use the POWER(I/⏻) button on the front of the PDP.

Notes:

- If your PDP isn't turned on when the power button is pressed: Press the MODE button to check if the TV mode has been chosen (TV).

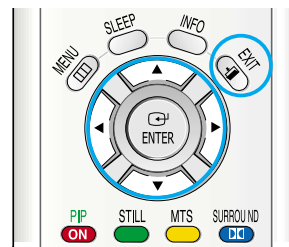## Viewing the Menus and Displays

Your PDP has a simple, easy-to-use menu system that appears on the PDP screen. This system makes it convenient and fast to use features on the PDP. Your PDP also lets you display the status of many of your PDP's features.

Viewing the Menus

1 With the power on, press the MENU button on the remote control. The main menu appears on the screen. The Picture menu is selected.

Picture		
Mode		
Adjust		
Color Tone	◄ Normal ►	
DNIe	◄ On ►	

Mode ◄ Custom ►

♦ Move ⬚ Enter ⬚ Menu
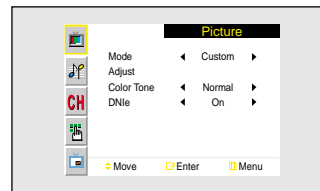
2 Press the UP/DOWN buttons to move items in the menu.
Press the LEFT/RIGHT buttons to display, change, or use the selected items.
Press the ENTER (⏎) button to enter items in the menu.
On screen menus disappear from the screen automatically after about thirty seconds, or you can press the EXIT button on your remote control to exit the menu.

Displaying Status Information

Press the INFO button on the remote control. The PDP will display the Picture mode, Sound mode, MTS, Signal and Caption.
Press the INFO button on the remote control again.
The PDP will display the Clock.

Ant 6

| Picture	: Custom
Sound	: Custom
MTS	: Mono
Signal	: Mono
Caption	: Off

07 : 30 am

Memorizing the Channels

Your PDP can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH ∧ and CH ∨ buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

Selecting the Video Signal-source

Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the PDP (i.e., an antenna or a cable system).

1 Press the MENU button. Press the UP or DOWN button to select "Channel", then press the ENTER button.
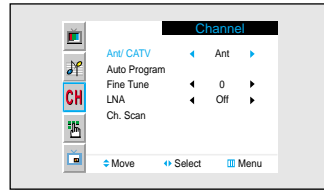
2 Press the LEFT or RIGHT button to select "Ant", "STD", "HRC" or "IRC".
• If you are connected to an antenna, leave "Ant" displayed. If you connected cable, press the LEFT or RIGHT button to the display the type of cable system: "STD", "HRC", or "IRC". (If you are not sure which type of cable system you have, contact your cable company).
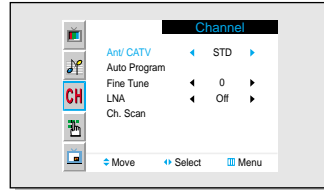
3 Press the MENU button to exit.

Note
• STD, HRC and IRC identify various types of cable TV systems. Contact your local cable company to identify the type of cable system that exists in your particular area.
At this point the signal source has been selected. Proceed to "Storing Channels in Memory" (next page).

Storing Channels in Memory (Automatic Method)

1 First, select the correct signal source (Ant, STD, HRC, IRC). See steps on previous page.
Press the MENU button. Press the UP or DOWN button to select "Channel", then press the ENTER button.

➤ Quick way to access the Automatic Channel Setting : Just press the "AUTO PROG." button on the remote control.
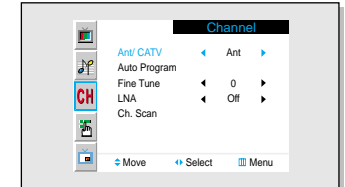
2 Press the UP or DOWN button to select "Auto Program", then press the ENTER button.
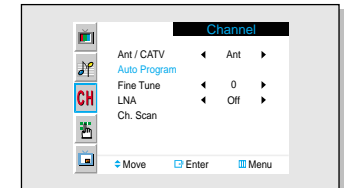
3 The PDP will begin memorizing all of the available channels.
After all the available channels are stored, the Auto program menu reappears. Press the RIGHT button to stop.
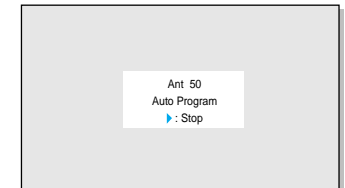
Note
• The PDP automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

Adding and Erasing Channels (Manual Method)

1 Use the number buttons to directly select the channel that will be added or erased.

Ex) Channel "4"

Ant 4

2 Press the ADD/DEL button:
Repeatedly pressing this button will alternate between "Added" and "Erased."

Ant 4
Added
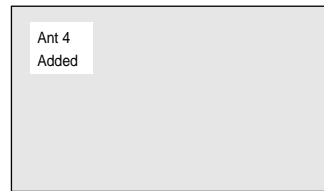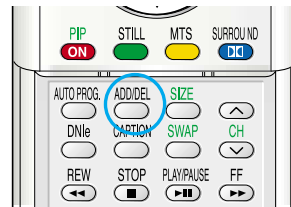
Note
• You can view any channel (including an erased channel) by using the number buttons on the remote control.

To View Memorized Channel (PIP Mode)

1 Press the MENU button. Press the UP or DOWN button to select "Channel", then press the ENTER button.

Channel		
Ant/ CATV	◀ Ant ▶
Auto Program	
Fine Tune	◀ 0 ▶
LNA	◀ Off ▶
Ch. Scan	

‡Move ‹›Select ▥Menu
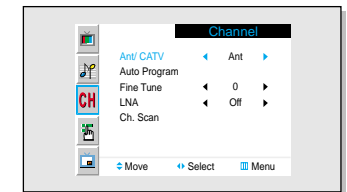
2 Press the UP or DOWN button to select "Ch Scan", then press the ENTER button.
Only the memorized channels are chosen.
Press the RIGHT button to stop.

Channel		
Ant / CATV	◀ Ant ▶
Auto Program	
Fine Tune	◀ 0 ▶
LNA	◀ Off ▶
Ch. Scan	

‡Move ↵Enter ▥Menu

Ch. Scan
Ant 7
▶: Stop
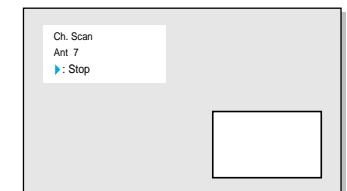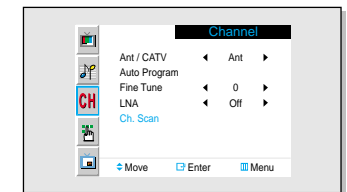
Changing Channels

Using the Channel Buttons

Press the CH⌃ or CH⌄ buttons to change channels.

When you press the CH⌃ or CH⌄ buttons, the PDP changes channels in sequence. You will see all the channels that the PDP has memorized. (The PDP must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Directly Accessing Channels

Press the number buttons to go directly to a channel. For example, to select channel 27, press "2" then "7". The TV will change channels when you press the second number.

When you use the number buttons, you can directly select channels that were either erased or not memorized. To change to single-digit channels (0~9) faster, press "0" before the single digit. (For channel "4" press "0", then "4".

Using the Pre-CH button to select the previous channel

Press the PRE-CH button. The TV will switch to the last channel viewed.

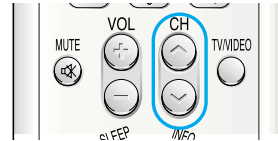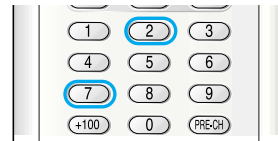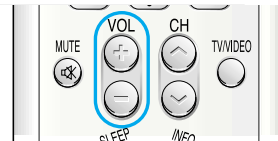*To quickly switch between two channels that are far apart, tune to one channel, then use the number button to select the second channel. Then, use the PRE-CH button to quickly alternate between them.*

Adjusting the Volume

Using the Volume Buttons

Press the VOL + or VOL – buttons to increase or decrease the volume.

Using Mute

Using the MUTE Buttons

At any time, you can temporarily cut off the sound using the MUTE button.

1 Press the MUTE button and the sound cuts off. The word "Mute" will appear in the lower-left corner of the screen.

2 To turn mute off, press the MUTE button again, or simply press the VOL + or VOL – button.

Mute

Setting Up Your Remote Control

This PDP's remote control can operate almost any VCR, cable box or DVD. After it has been set up properly, your remote control can operate in four different modes :TV, VCR, Cable or DVD. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever piece of equipment you choose.

Note : ● The remote control may not be compatible with all DVD Players, VCRs, Cable boxes.
● The remote control can operate only on STB made by Samsung.

Setting Up the Remote to Operate Your VCR, Cable box or DVD player

1 Turn off your VCR. (or Cable box, DVD player)
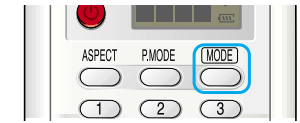
2 Press the MODE button. Mode is changed whenever MODE button is pressed(New mode is displayed on LED screen).

3 Press the SET button on your TV's remote control.

4 Using the number buttons on your remote control, enter three digits of the VCR (or Cable box, DVD player) code listed on page 38 of this manual for your brand of VCR (or CATV, DVD). Make sure you enter three digits of the code, even if the first digit is a "0". (If more than one code is listed, try the first one.)
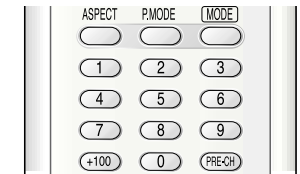
5 Press the Power button on the remote control. Your VCR (or CATV, DVD) should turn on if your remote is set up correctly. If your VCR (or CATV, DVD) does not turn on after setup, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of VCR (or CATV, DVD). If no other codes are listed, try each code, 000 through 089 (or Cable box: 000 through 077, DVD player: 000 through 008).
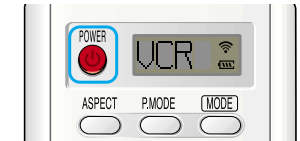
Notes
- When your remote control is in "VCR" mode, the VCR control buttons (Stop, REW, Play/Pause, FF) still operate your VCR.
- When your remote control is in "CATV" or "DVD" mode, the VCR control buttons (Stop, REW, Play/Pause, FF) still operate your VCR.

Remote Control Codes

VCR Codes

Brand	Codes	Brand	Codes	Brand	Codes
Admiral	020	JVC	007 008 018 021 026 037	RCA	
Aiwa	025	Kenwood	007 008 018 026 037		017 019 002 021 035 041 043 057 068
Akai	027 004 032	KLH	070	Samsung	000 001 002 003 004 005
Audio Dynamics	007 026	Lioyd	025	Sansui	026
Bell&Howell	018	Logik	038	Sanyo	018 024
Broksonic	022	LXI 025		Scott	003 047 052 067
Candle	002 006 003 015 008 055	Magnavox	021 036 056 059	Sears	018 019 006 024 028 029 041
Canon	021 056	Marantz	008 007 018 021 026 036		048 051
Citizen	002 003 006 008 015 055		037 062	Sharp	020 034 045 015
Colortyme	007	Marta	006	Shimom	027 033 038 058
Craig	002 024	MEI	021	Signature	025
CurtisMathes	002 017 007 008	Memorex	006 021 024 025	Sony	027 033 044
	021 025 056 064 066	MGA	034	Sylvania	021 025 036 056 059
Daewoo	003 015 010 011 012 013	Midland	005	Symphonic	025
	014 016	Minolta	019 041	Tandy	018 025
DBX	007 026	Mitsubishi	019 034 041 046	Tashika	006
Dimensia	017	Montgomery Ward	020	Tatung	037
Dynatech	034	MTC	002 025	Teac	025 037 068
Ernerson	001 003 006 021 022 025	Multitech	002 025 038 005	Technics	021
	030 032 034 040 047 050	NEC	018 007 026 037 008 062 064	Teknika	021 006 025 031
	052 060 063 065 066 067	Optimus	020	TMK	066
	069	Panasonic	021 056 071 072	Toshiba	003 019 029 051 052
Fisher	018 024 028 029 048 051 061	Pentax	019 041	Totevision	002 006
Funai	025	Pentex Research	008	Unitech	002
GenneralElectric	017 002 021	Philco	021 036 056 059	VectorResearch	007 026
	005 056	Philips	021 036	Victor	026
Go Video	002	Pioneer	019 026 039 053	Video Concepts	007 026
Goldstar	006 007 008 009 010	Portland	015 049 055	Videosonic	002
Harman Kardon	007	ProScan	017	Wards	002 003 006 019 020 021
Hitachi	019 025 041 042	Quartz	018		024 025 034 038 041
InstantReplay	021	Quasar	021 056	Yamaha	007 008 018 026 037
JC Renney	002 007 018 019 021	Radio Shack/Realistic		Zenith	023 027 033 073
	026 037 041 054 056	006 018 020 021 024 025 029 034 048 056			

Cable Box Codes

Brand	Codes	Brand	Codes	Brand	Codes
Anvision	017 018	Phlips	019 021 023 028	Sprucer	022
GI	041	Pioneer	018 020 004 044	Stargate	2000 036
Hamlin	003 024 031	RCA	014 022 040	Sylvania	016
Hitachi	025 030	Regal	003	Texscan	016
Jerrold	038 039	Regency	015 023	Tocom	032
Macom	025.030	SA	042 043	Universal	033 034
magnavox	019 023 028	Samsung	000 001 002 003 004 005	Viewstar	019 021 023 028
Oak	026		006 007	Wameramex	046
Panasonic	003 022 027 037 044	ScientificAtlanta	042 043	Zenith	017 029 035 037 045

DVD Codes

Brand	Codes
Samsung	000 001
JVC	002
ProScan,RCA	003
Panasonic	005
LG	006
Sony	007
DENON	008
CurtisMathes	009

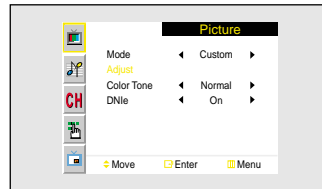PLASMA DISPLAY PANEL

Picture Control

38

Customizing the Picture

You can use the on-screen menus to change the Contrast, Brightness, Sharpness, Color, and Tint settings of your PDP.

1 Press the MENU button, then press the ENTER button.
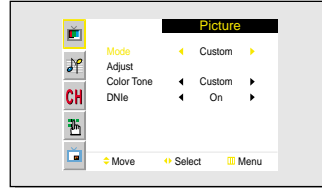
```
                    Picture
Mode         ◀  Custom  ▶
Adjust
Color Tone   ◀  Custom  ▶
DNIe         ◀    On    ▶

  ◆Move    ◀▶Select    ▥Menu
```

2 Press the UP or DOWN button to select "Adjust", then press the ENTER button.
You will also see the items "Contrast", "Brightness", "Sharpness", "Color" and "Tint".

```
                    Picture
Mode         ◀  Custom  ▶
Adjust
Color Tone   ◀  Normal  ▶
DNIe         ◀    On    ▶

  ◆Move    ⏎Enter    ▥Menu
```

3 Press the UP or DOWN button to select the item you wish to change.

```
                    Adjust
Contrast                    80
Brightness    ▭▭▭          50
Sharpness     ▭▭▭          50
Color         ▭▭▭          50
Tint        R 50 ▭▭ G 50

  ◆Move    ◀▶Adjust    ▥Menu
```

4 Press the LEFT or RIGHT button to change the value of the item.

```
Contrast  ◀ ▭▭▭▭ ▶ 82
```
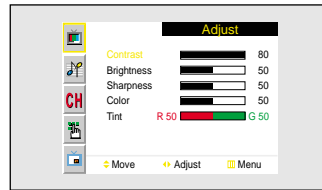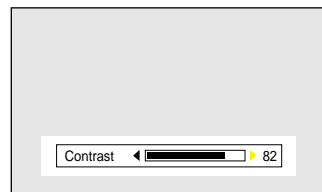
5 Press the MENU button to exit.

Note
• In the PC/DVI mode, you can't adjust the Color and Tint.

Using Automatic Picture Settings

Your PDP has automatic picture settings that allow you to adjust the video display easily.

1 Press the MENU button, then press the ENTER button.

➤ Quick way to access the picture setting: Just press the "P.MODE" button under the cover of the remote control.

```
                    Picture
Mode         ◀  Custom  ▶
Adjust
Color Tone   ◀  Custom  ▶
DNIe         ◀    On    ▶

  ◆Move    ◀▶Select    ▥Menu
```
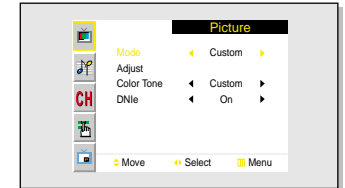
2 Press the LEFT or RIGHT button to select "Custom", "Dynamic", "Standard" or "Movie" picture setting.
• You can select "High", "Middle", "Low" or "Custom" in PC/DVI mode.

```
                    Picture
Mode         ◀  Dynamic  ▶
Adjust
Color Tone   ◀  Custom   ▶
DNIe         ◀    On     ▶

  ◆Move    ◀▶Select    ▥Menu
```
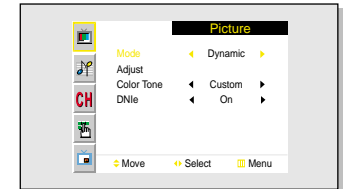
3 Press the MENU button to exit.

Selecting the Color Tone

1 Press the MENU button, then press the ENTER button.
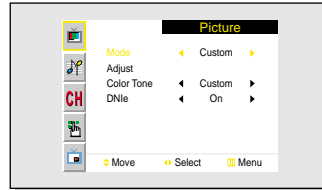
Picture
Mode ◄ Custom ►
Adjust
Color Tone ◄ Custom ►
DNle ◄ On ►
‡ Move ◄► Select ▥ Menu

2 Press the UP or DOWN button to select "Color Tone", then press the LEFT or RIGHT button to select "Normal", "Warm1", "Warm2", "Cool2" or "Cool1".
• You can select "Custom", "Color1", "Color2" or "Color3" in PC mode.
• You can select "Color1", "Color2" or "Color3" in DVI mode.

Picture
Mode ◄ Custom ►
Adjust
Color Tone ◄ Normal ►
DNle ◄ On ►
‡ Move ◄► Select ▥ Menu
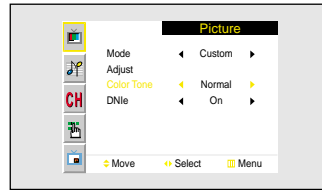
3 Press the MENU button to exit.

DNle (Digital Natural Image engine)

Samsung's New Technology brings you more detailed images with contrast and white enhancement and 3D noise reduction.

1 Press the MENU button, then press the ENTER button.

➤ Quick way to select DNle : Simply press the "DNle" button under the cover of the remote control.

Picture
Mode ◄ Custom ►
Adjust
Color Tone ◄ Custom ►
DNle ◄ On ►
‡ Move ◄► Select ▥ Menu
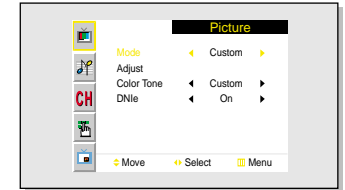
2 Press the UP or DOWN button to select "DNle", then press the LEFT or RIGHT button to select "On", "Off" or "Demo".

• On : Switches on the DNle mode.
• Demo : The screen before applying DNle appears on the right and the screen after applying DNle appears on the left.
• Off : Switches off the DNle mode.

Picture
Mode ◄ Custom ►
Adjust
Color Tone ◄ Normal ►
DNle ◄ On ►
‡ Move ◄► Select ▥ Menu

DNle Demo
DNle On   DNle Off

3 Press the MENU button to exit.

Plasma Display

42   43
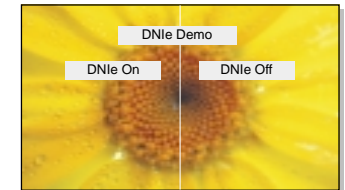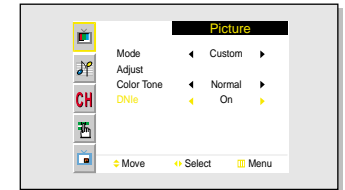
Viewing the Picture-in-Picture

Selecting the PIP Screen

1 Press the MENU button. Press the UP or DOWN button to select "PIP", then press the ENTER button.

➤ Quick way to access the PIP mode: Just press the "PIP" button on the remote control.
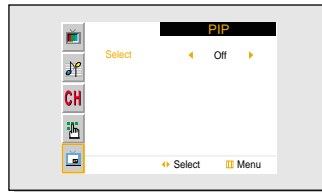
2 Press the LEFT or RIGHT button to select "On". The PIP image will appear in the corner of the screen.
• Pressing the LEFT or RIGHT button will alternate between "On" and "Off."
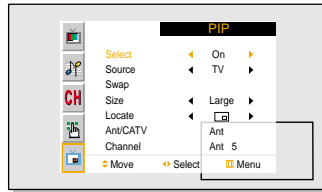
3 Press the MENU button to exit.

PIP Settings

O : PIP and Swap Operate
X : PIP doesn't Operate

Main screen / PIP screen	TV	Video	S-Video	Component 1	Component 2	PC	DVI
TV	O	O	O	O	O	O	O
Video	O	X	O	O	O	O	O
S-Video	O	O	X	O	O	O	O
Component 1	O	O	O	X	X	X	X
Component 2	O	O	O	X	X	X	X
PC	O	O	O	X	X	X	X
DVI	O	O	O	X	X	X	X

Selecting an External Signal

You can use PIP to view a signal from an external source, such as a VCR.

1 Press the MENU button. Press the UP or DOWN button to select "PIP", then press the ENTER button.
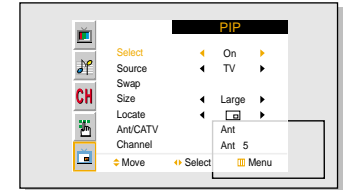
2 Press the UP or DOWN button to select "Source".
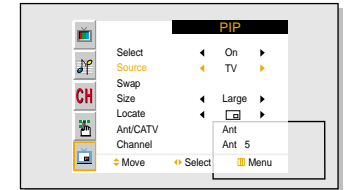
3 Press the LEFT or RIGHT button to cycle through all of the available signal sources:
"TV", "Video", "S-Video", "Component 1", "Component 2", "PC" and "DVI".

The signal from these inputs will not appear if you have not connected any equipment to the PDP's respective input jacks.
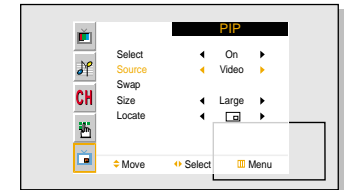
4 Press the MENU button to exit.

Note
• The PIP function operates in Wide screen.
• Using Multi-Screen in the Normal, Zoom1 or Zoom2 screen will change the size of the main screen to Wide screen.

Swapping the Contents of the PIP Image and Main Image

1 Press the MENU button. Press the UP or DOWN button to select "PIP", then press the ENTER button.

➤ Quick way to access swapping: Just press the "SWAP" button under the cover of the remote control.

	PIP	
Select	◀ On ▶	
Source	◀ TV ▶	
Swap		
Size	◀ Large ▶	
Locate	◀ ▣ ▶	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	↔ Select	▥ Menu
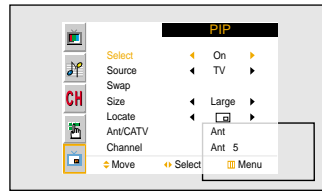
2 Press the UP or DOWN button to select "Swap", then press the ENTER button.
• The image in the PIP window will appear on the main screen, and vice versa.

	PIP	
Select	◀ On ▶	
Source	◀ TV ▶	
Swap		
Size	◀ Large ▶	
Locate	◀ ▣ ▶	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	⊡ Enter	▥ Menu

3 Press the MENU button to exit.

Changing the Size of the PIP Window

1 Press the MENU button. Press the UP or DOWN button to select "PIP", then press the ENTER button.

➤ Quick way to access the PIP size: Just press the "SIZE" button under the cover of the remote control.

	PIP	
Select	◀ On ▶	
Source	◀ TV ▶	
Swap		
Size	◀ Large ▶	
Locate	◀ ▣ ▶	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	↔ Select	▥ Menu

2 Press the UP or DOWN button to select "Size".

	PIP	
Select	◀ On ▶	
Source	◀ TV ▶	
Swap		
Size	◀ Large ▶	
Locate	◀ ▣ ▶	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	↔ Select	▥ Menu

3 Press the LEFT or RIGHT button to select "Small", "Double" or "Large".

	PIP	
Select	◀ On ▶	
Source	◀ TV ▶	
Swap		
Size	◀ Small ▶	
Locate	◀ ▣ ▶	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	↔ Select	▥ Menu

4 Press the MENU button to exit.

Changing the Location of the PIP Image

1 Press the MENU button. Press the UP or DOWN button to select "PIP", then press the ENTER button.

	PIP	
Select	◄ On ►	
Source	◄ TV ►	
Swap		
Size	◄ Large ►	
Locate	◄ ⊡ ►	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	↔ Select	▥ Menu

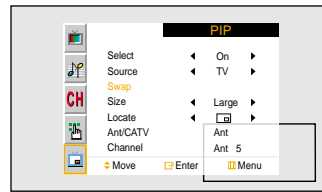**2** Press the UP or DOWN button to select "Locate".

	PIP	
Select	◄ On ►	
Source	◄ TV ►	
Swap		
Size	◄ Large ►	
Locate	◄ ⊡ ►	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	↔ Select	▥ Menu
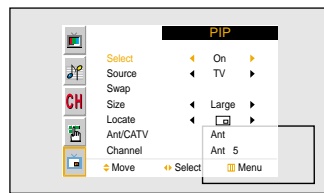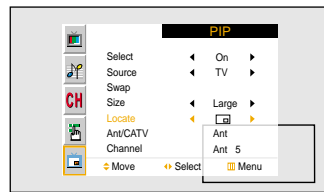
3 Press the LEFT or RIGHT button to move the PIP screen where you want.

	PIP	
Select	◄ On ►	
Source	◄ TV ►	
Swap		
Size	◄ Large ►	
Locate	◄ ⊡ ►	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	↔ Select	▥ Menu
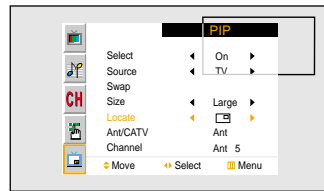
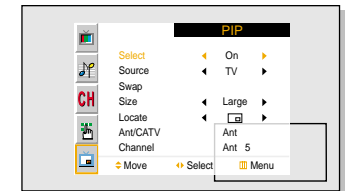**4** Press the MENU button to exit.
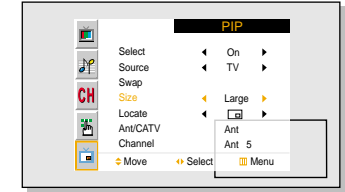
Changing the PIP Channel

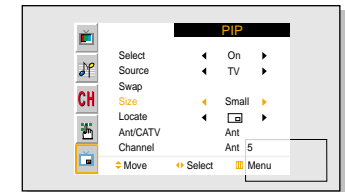**1** Press the MENU button. Press the UP or DOWN button to select "PIP", then press the ENTER button.

➤ Quick way to change the PIP channel: Just press the "CH▲" or "CH▼" button under the cover of the remote control.

	PIP	
Select	◄ On ►	
Source	◄ TV ►	
Swap		
Size	◄ Large ►	
Locate	◄ ⊡ ►	
Ant/CATV	Ant	
Channel	Ant 5	
↕ Move	↔ Select	▥ Menu
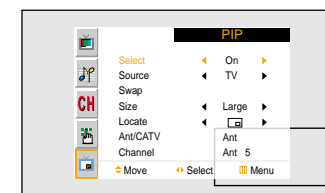
2 Press the UP or DOWN button to select "Ant/CATV". Press the LEFT or RIGHT button to select "Ant", "STD", "HRD" or "IRC".

	PIP	
Select	◄ On ►	
Source	◄ TV ►	
Swap		
Size	◄ Large ►	
Locate	◄ ⊡ ►	
Ant/CATV	STD	
Channel	STD 5	
↕ Move	↔ Select	▥ Menu
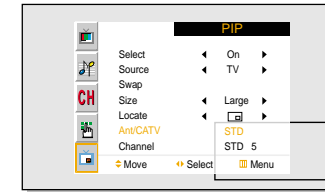
3 Press the UP or DOWN button to select "Channel". Press the LEFT or RIGHT button to change the channel that appears in the PIP window.

	PIP	
Select	◄ On ►	
Source	◄ TV ►	
Swap		
Size	◄ Large ►	
Locate	◄ ⊡ ►	
Ant/CATV	STD	
Channel	STD 9	
↕ Move	↔ Select	▥ Menu
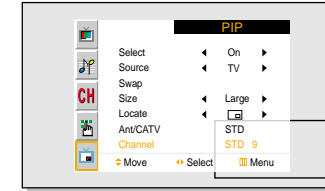
4 Press the MENU button to exit.
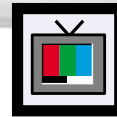
Changing the Screen Size

When you press the ASPECT button on the remote control, the PDP's screen mode should appear in sequence. The screen displays in this order: Wide, Panorama, Zoom1, Zoom2, Normal.

Note
• If you watch a still image or the Normal (4:3) mode for a long time (over 2 hours), an image may be burned onto the screen. View the monitor in Wide or Panorama mode as much as possible.

Wide

Sets the picture to 16:9 wide mode.

Wide

Panorama

Converts regular 4:3 aspect ratio screen to wide screen.

Panorama

Zoom1

The screen size when Wide screen is vertically enlarged.

Zoom1   ⬍ Up/Down

Zoom2

The screen size when the Zoom1 screen is vertically enlarged.

Zoom2   ⬍ Up/Down

Normal (4:3)

Sets the picture to 4:3 normal mode.
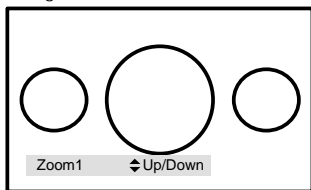
Normal

Notes
• In TV, VIDEO, S-VIDEO and Component(480i) modes, all screen modes can be selected. (Wide → Panorama → Zoom1 → Zoom2 → Normal).
• In PC/DVI mode, only Wide & Normal modes can be selected.
• In Component(480p, 720p. 1080i) modes, Panorama mode can't be selected.
• In Component(480p, 720p. 1080i) modes, you can move the picture on screen by pressing the Up▲ or Down▼ button. (All screen modes)
• Changing the screen size to Normal, Zoom1 or Zoom2 during PIP mode will cause the PIP window to disappear.

Changing the Screen Size

Still

Press the Still button on the remote control to freeze a moving picture. Press again to cancel.

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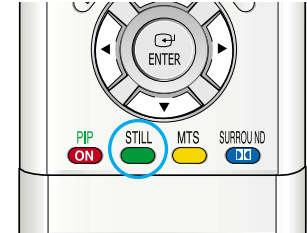
Sound Control

Customizing the Sound

1 Press the MENU button. Press the UP or DOWN button to select "Sound", then press the ENTER button.

```
                          Sound
     Mode        ◄  Custom  ►
     Adjust
     MTS         ◄   Mono   ►
     Auto Volume ◄    Off    ►
     Dolby Virtual ◄   Off    ►
     Woofer
     ◆ Move      ◆ Select    ▥ Menu
```
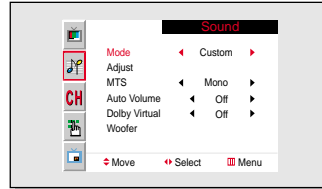
2 Press the UP or DOWN button to select "Adjust", then press the ENTER button.
You will also see the items "Bass", "Treble" and "Balance".
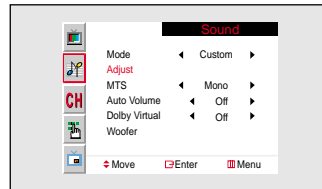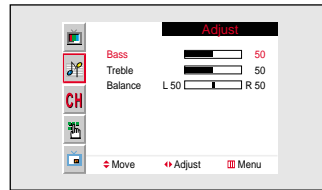
```
                          Sound
     Mode        ◄  Custom  ►
     Adjust
     MTS         ◄   Mono   ►
     Auto Volume ◄    Off    ►
     Dolby Virtual ◄   Off    ►
     Woofer
     ◆ Move      ↵ Enter    ▥ Menu
```

3 Press the UP or DOWN button to select the item you wish to change.

```
                          Adjust
     Bass        ▬▬▬        50
     Treble      ▬▬▬        50
     Balance   L 50 ▬▬ R 50

     ◆ Move      ◆ Adjust   ▥ Menu
```

4 Press the LEFT or RIGHT button to change the value of the item.

```
     Bass   ◄ ▬▬▬▬ ► 82
```
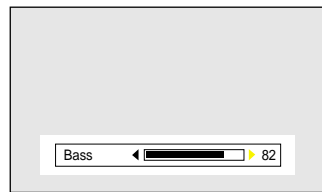
5 Press the MENU button to exit.

Using Automatic Sound Settings

1 Press the MENU button. Press the UP or DOWN button to select "Sound", then press the ENTER button.

```
                          Sound
     Mode        ◄  Custom  ►
     Adjust
     MTS         ◄   Mono   ►
     Auto Volume ◄    Off    ►
     Dolby Virtual ◄   Off    ►
     Woofer
     ◆ Move      ◆ Select    ▥ Menu
```
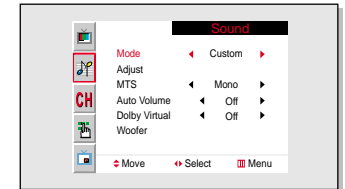
2 Press the LEFT or RIGHT button to select "Adjust", "Standard", "Music", "Movie" or "Speech" sound setting.

```
                          Sound
     Mode        ◄  Music   ►
     Adjust
     MTS         ◄          ►
     Auto Volume ◄    Off    ►
     Dolby Virtual ◄   Off    ►
     Woofer
     ◆ Move      ◆ Select    ▥ Menu
```
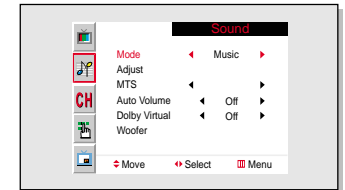
3 Press the MENU button to exit.

Choosing a Multi-Channel Sound (MTS) Soundtrack

Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)

1 Press the MENU button. Press the UP or DOWN button to select "Sound", then press the ENTER button.

➤ Quick way to access the MTS menu: Just press the "MTS" button on the remote control.

	Sound	
Mode	◀ Custom ▶	
Adjust		
MTS	◀ Mono ▶	
Auto Volume	◀ Off ▶	
Dolby Virtual	◀ Off ▶	
Woofer		
‡ Move	◀▶ Select	▥ Menu

2 Press the UP or DOWN button to select "MTS".

	Sound	
Mode	◀ Standard ▶	
Adjust		
MTS	◀ Mono ▶	
Auto Volume	◀ Off ▶	
Dolby Virtual	◀ Off ▶	
Woofer		
‡ Move	◀▶ Select	▥ Menu
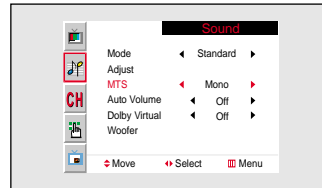
3 Press the LEFT or RIGHT button to select "Mono", "Stereo" or "SAP".

	Sound	
Mode	◀ Standard ▶	
Adjust		
MTS	◀ Stereo ▶	
Auto Volume	◀ Off ▶	
Dolby Virtual	◀ Off ▶	
Woofer		
‡ Move	◀▶ Select	▥ Menu
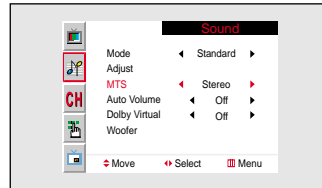
4 Press the MENU button to exit.

- Choose *Stereo* for channels that are broadcasting in stereo.

- Choose *Mono* for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.

- Choose *SAP* to listen to the Separate Audio Program, which is usually a foreign-language translation.

Note
• The MTS function operates in TV mode only.

Using the Auto Volume

Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. "Auto volume" 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.

1 Press the MENU button. Press the UP or DOWN button to select "Sound", then press the ENTER button.

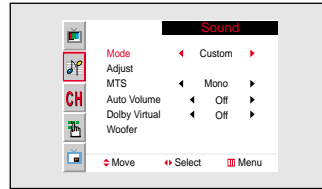|	Sound	
Mode	◀ Custom ▶	
Adjust		
MTS	◀ Mono ▶	
Auto Volume	◀ Off ▶	
Dolby Virtual	◀ Off ▶	
Woofer		
‡ Move	◀▶ Select	▥ Menu
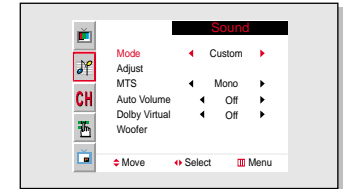
2 Press the UP or DOWN button to select "Auto Volume".
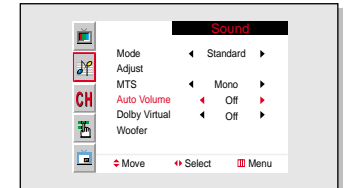
	Sound	
Mode	◀ Standard ▶	
Adjust		
MTS	◀ Mono ▶	
Auto Volume	◀ Off ▶	
Dolby Virtual	◀ Off ▶	
Woofer		
‡ Move	◀▶ Select	▥ Menu

3 Press the LEFT or RIGHT button to select "On".

• Pressing the LEFT or RIGHT button will alternate between "On" and "Off."

	Sound	
Mode	◀ Standard ▶	
Adjust		
MTS	◀ Mono ▶	
Auto Volume	◀ On ▶	
Dolby Virtual	◀ Off ▶	
Woofer		
‡ Move	◀▶ Select	▥ Menu
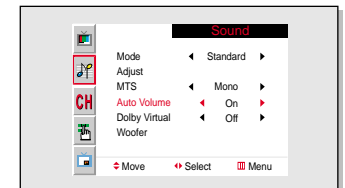
4 Press the MENU button to exit.

Using Dolby Virtual

This feature allows the PDP's optional L/R speakers to provide a Home Theater-like Dolby effect. The center and surround sounds are mixed into the L/R speakers.

1 Press the MENU button. Press the UP or DOWN button to select "Sound", then press the ENTER button.

➤ Quick way to access the Surround: Just press the "SURROUND" button on the remote control.

Sound
Mode   ◄ Custom ►
Adjust
MTS   ◄ Mono ►
Auto Volume ◄ Off ►
Dolby Virtual ◄ Off ►
Woofer
‡ Move   ◄► Select   ▥ Menu

2 Press the UP or DOWN button to select "Dolby Virtual".
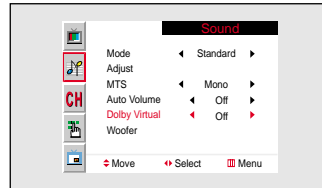
Sound
Mode   ◄ Standard ►
Adjust
MTS   ◄ Mono ►
Auto Volume ◄ Off ►
Dolby Virtual ◄ Off ►
Woofer
‡ Move   ◄► Select   ▥ Menu

3 Press the LEFT or RIGHT button to select "On".

• Pressing the LEFT or RIGHT button will alternate between "On" and "Off."

Sound
Mode   ◄ Standard ►
Adjust
MTS   ◄ Mono ►
Auto Volume ◄ Off ►
Dolby Virtual ◄ On ►
Woofer
‡ Move   ◄► Select   ▥ Menu
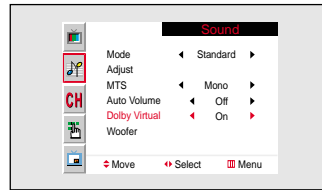
4 Press the MENU button to exit.

Using a Subwoofer

1 Press the MENU button. Press the UP or DOWN button to select "Sound", then press the ENTER button.

Sound
Mode   ◄ Custom ►
Adjust
MTS   ◄ Mono ►
Auto Volume ◄ Off ►
Dolby Virtual ◄ Off ►
Woofer
‡ Move   ◄► Select   ▥ Menu

2 Press the UP or DOWN button to select "Woofer", then press the ENTER button.

Sound
Mode   ◄ Standard ►
Adjust
MTS   ◄ Mono ►
Auto Volume ◄ Off ►
Dolby Virtual ◄ Off ►
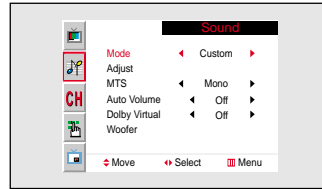Woofer
‡ Move   ↵ Enter   ▥ Menu

3 Press the LEFT or RIGHT button to select "On".

• Pressing the LEFT or RIGHT button will alternate between "On" and "Off."

Woofer
Woofer   ◄ On ►
Volume   50
Cutoff Freq. ◄ 120Hz ►
‡ Move   ◄► Select   ▥ Menu
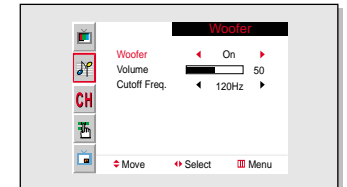
4 Press the UP or DOWN button to select "Volume", then press the LEFT or RIGHT button to adjust the value of the item.
This sets the volume for the subwoofer.

Woofer
Woofer   ◄ On ►
Volume   50
Cutoff Freq. ◄ 120Hz ►
‡ Move   ◄► Adjust   ▥ Menu

Volume   ◄ ▬▬▬▬ ► 65
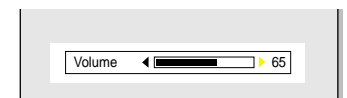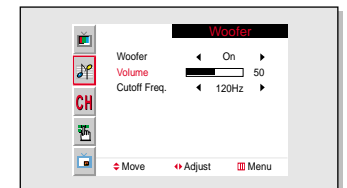
5 Press the UP or DOWN button to select "Cutoff Freq.", then press the LEFT or RIGHT button to adjust the value of the item.
This sets the cutoff frequency for the subwoofer.
For example, if you set the cutoff frequency at 130Hz, the subwoofer will reproduce frequencies of 130Hz and lower.
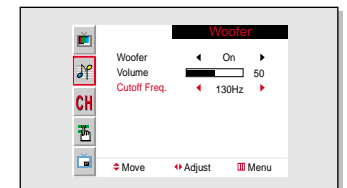
Woofer
Woofer   ◄ On ►
Volume   50
Cutoff Freq. ◄ 130Hz ►
‡ Move   ◄► Adjust   ▥ Menu

6 Press the MENU button to exit.

SAMSUNG

Channel Control CH

Fine Tuning Channels

Use fine tuning to manually adjust a particular channel for optimal reception.

1 Press the MENU button. Press the UP or DOWN button to select "Channel", then press the ENTER button.

```
                    Channel
Ant/ CATV      ◄    Ant    ►
Auto Program
Fine Tune      ◄     0     ►
LNA            ◄    Off    ►
Ch. Scan

  ↕ Move    ◄► Select    ▥ Menu
```

2 Press the UP or DOWN button to select "Fine Tune".

```
                    Channel
Air / CATV     ◄    Air    ►
Auto Program
Fine Tune      ◄     0     ►
LNA            ◄    Off    ►
Ch. Scan

  ↕ Move    ◄► Adjust    ▥ Menu
```
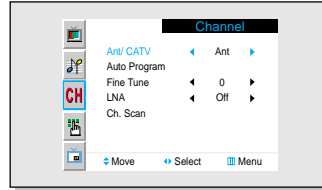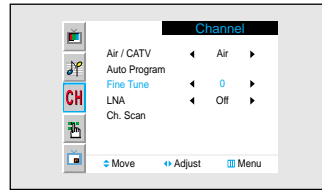
3 Press the LEFT or RIGHT button to adjust the fine tuning.

```
                    Channel
Air / CATV     ◄    Air    ►
Auto Program
Fine Tune      ◄    +3     ►
LNA            ◄    Off    ►
Ch. Scan

  ↕ Add/Erase ◄► Adjust    ▥ Menu
```
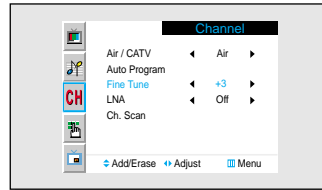
4 To store the fine tuning setting in the TV's memory, press the UP button.(A star icon<*>will appear.) To reset the fine tuning to "0", press the DOWN button.

```
                    Channel
Air / CATV     ◄    Air    ►
Auto Program
Fine Tune      ◄    +3 *   ►
LNA            ◄    Off    ►
Ch. Scan

  ↕ Add/Erase ◄► Adjust    ▥ Menu
```
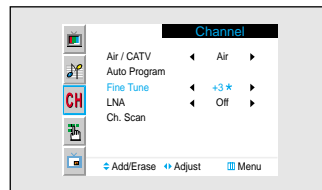
5 Press the MENU button to exit.

LNA (Low Noise Amplifier)

If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).

1 Press the MENU button. Press the UP or DOWN button to select "Channel", then press the ENTER button.

```
                    Channel
Ant/ CATV      ◄    Ant    ►
Auto Program
Fine Tune      ◄     0     ►
LNA            ◄    Off    ►
Ch. Scan

  ↕ Move    ◄► Select    ▥ Menu
```

2 Press the UP or DOWN button to select "LNA".

```
                    Channel
Air / CATV     ◄    Air    ►
Auto Program
Fine Tune      ◄     0     ►
LNA            ◄    Off    ►
Ch. Scan

  ↕ Move    ◄► Select    ▥ Menu
```

3 Press the LEFT or RIGHT button to select "On."

• Pressing the LEFT or RIGHT button will alternate between "On" and "Off."
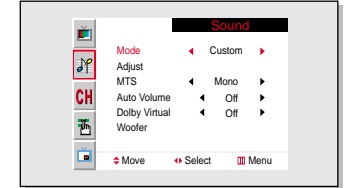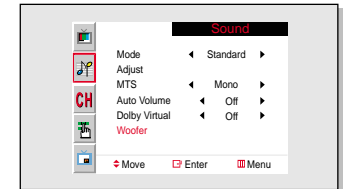
```
                    Channel
Air / CATV     ◄    Air    ►
Auto Program
Fine Tune      ◄     0     ►
LNA            ◄    On     ►
Ch. Scan

  ↕ Move    ◄► Select    ▥ Menu
```

4 Press the MENU button to exit.

SAMSUNG
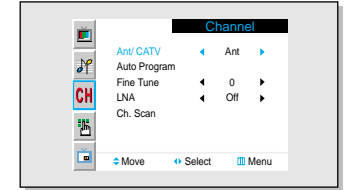
Connecting a PC and Operation

Connecting to a PC

Connection to a Macintosh computer may require in adapter.

PDP

Power Plug

Use the DVI-D connection cable. (sold separately)

or

Ferrite Cores

DVI Cable   PC Cable   Audio Cable

PC

DVI jack
(The actual configuration on your PC may be different, depending on the model.)

Connecting a PC to the PDP

1 Connect a PC (15pin) cable between the PC Output jack (or DVI jack) on the PC and the RGB IN(or DVI IN) Input jack (15p D-SUB) on the PDP.

2 Connect a Audio cable between the Audio (RGB or DVI) on the PC and the Audio L/R (RGB or DVI) input jacks on the PDP.

To watch the PC screen:

1. Turn on your PDP, and press the TV/VIDEO button on the remote control.
2. Press the UP or DOWN button to select "PC", then press the ENTER button.
3. Turn on PC and check for PC system requirements. (Refer to pages 66 and 67 for PC system requirements.)
4. Adjust the PC screen. (Refer to pages 70 and 76.)

Pin Configuration

D-Sub Cable
• 15Pin Signal Cable (based on protruded pin)

Pin No.	PC IN	PC OUT
1	Red (R)	Red (R)
2	Green (G)	Green (G)
3	Blue (B)	Blue (B)
4	Grounding	Grounding
5	Grounding (DDC)	Grounding (DDC)
6	Red (R) Grounding	Red (R) Grounding
7	Green (G) Grounding	Green (G) Grounding
8	Blue (B) Grounding	Blue (B) Grounding
9	Reserved	Reserved
10	Sync Grounding	Sync Grounding
11	Grounding	Grounding
12	Data (DDC)	Data (DDC)
13	Horizontal sync.	Horizontal sync.
14	Vertical sync.	Vertical sync.
15	Clock (DDC)	Clock (DDC)

DVI-D Cable (Digital-Only Connector)

Pin No.	Signal Assignment	Pin No.	Signal Assignment
1	T.M.D.S. Data2-	13	T.M.D.S. Data3+
2	T.M.D.S. Data2+	14	+5V Power
3	T.M.D.S. Data2/4 Shield	15	Ground (for +5V)
4	T.M.D.S. Data4-	16	Hot Plug Detect
5	T.M.D.S. Data4+	17	T.M.D.S. Data0-
6	DDC Clock	18	T.M.D.S. Data0+
7	DDC Data	19	T.M.D.S. Data0/5 Shield
8	No Connect	20	T.M.D.S. Data5-
9	T.M.D.S. Data1-	21	T.M.D.S. Data5+
10	T.M.D.S. Data1+	22	T.M.D.S. Clock Shield
11	T.M.D.S. Data1/3 Shield	23	T.M.D.S. Clock+
12	T.M.D.S. Data3-	24	T.M.D.S. Clock-

Setting up Your PDP (Plug and Play)

Our adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system, without the usual setup hassles and confusion. Your PC system can easily identify and configure itself for use with your display. This monitor automatically tells the PC system its Extended Display Identification data (EDID) using Display Data Channel (DDC) protocols.

How to Set up Your PC Software (Windows only)

The Windows display-settings for a typical computer are shown below. However, 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.)
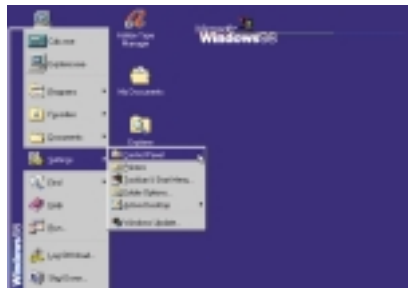
On the windows screen, select in the following sequence : Start → Settings → Control Panel.
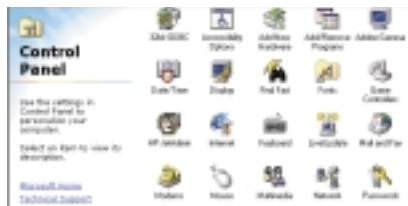
When the control panel screen appears, click on "Display" and a display dialog-box will appear.
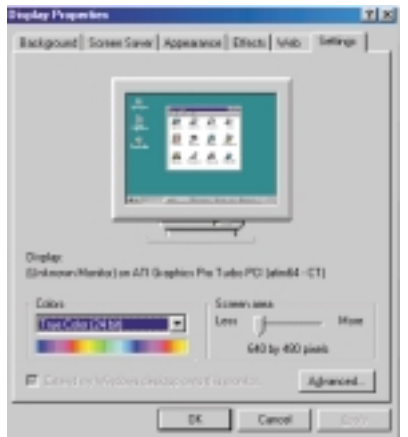
Select the "Settings" tab in the display dialog-box.

The two key variables that apply to the PDP-PC interface are "resolution" and "colors".
The correct settings for these two variables are:

- Size (sometimes called "resolution")
  :640 x 480 pixels.
- Color: "24-bit" color (might also be expressed as "16 million colors")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" or "60 Hz." Otherwise, just click "OK" and exit the dialog box.

Notes:
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:

Video signal	Dot X Line	Vertical Frequency (Hz)	Horizontal Frequency (KHz)	Vertical polarity	Horizontal polarity
IBM PC / AT Compatible	640 X 350	70.086	31.469	N	P
		85.080	37.861	N	P
	640 X 400	85.080	37.861	P	N
	720 X 400	70.087	31.469	P	N
		85.039	37.927	P	N
	640 X 480	59.940	31.469	N	N
		72.809	37.861	N	N
		75.000	37.500	N	N
		85.008	43.269	N	N
	800 X 600	56.250	35.156	N/P	N/P
		60.317	37.879	P	P
		72.188	48.077	P	P
		75.000	46.875	P	P
		85.061	53.674	P	P
	1024 X 768	60.004	48.363	N	N
		70.069	56.476	N	N
		75.029	60.023	P	P
		84.997	68.677	P	P

- The interlace mode is not supported.
- The PDP operates abnormally if a non-standard video format is selected.

Notes:
- When this PDP is used as a PC display, 32-bit color is supported.
- Depending on the manufacturer, your PC display screen might appear different. (and depending on your particular version of Windows).

  Check your PC instruction book for information about connecting your PC to a PDP.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 31.5kHZ (horizontal).
- In some cases, abnormal signals (such as stripes) might appear on the screen when the PC power is turned off (or if the PC is disconnected). If so, press the Source button to enter the VIDEO mode. Also, make sure that the PC is connected.
- Connect only a PC monitor to the monitor output port while viewing the PC screen. (Otherwise, random signals might appear).
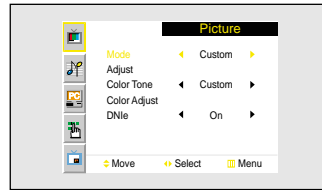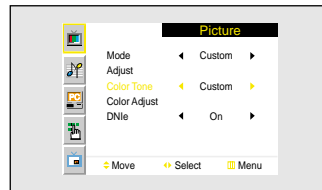
PC Adjusting the PC Screen

Adjusting the R.G.B

Preset:

- Press the TV/VIDEO button, then press the UP or DOWN button to select PC.
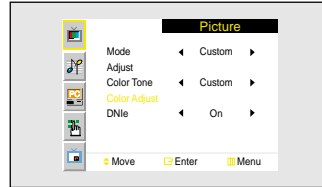 Press the ENTER button to select PC mode.

1 Press the MENU button, then press the ENTER button.

```
                        Picture
        Mode        ◄   Custom   ►
        Adjust
        Color Tone  ◄   Custom   ►
        Color Adjust
        DNIe        ◄     On     ►

        ↕ Move    ↔ Select    ▦ Menu
```
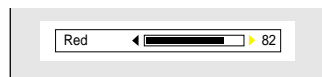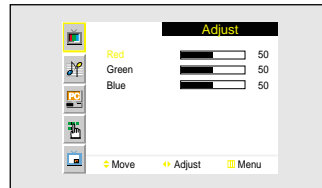
2 Press the UP or DOWN button to select "Color Tone", then Press the LEFT or RIGHT button to select "Custom". When "Custom" is selected, the word "Color Adjust" will appear on the screen.

```
                        Picture
        Mode        ◄   Custom   ►
        Adjust
        Color Tone  ◄   Custom   ►
        Color Adjust
        DNIe        ◄     On     ►

        ↕ Move    ↔ Select    ▦ Menu
```

3 Press the UP or DOWN button to select "Color Adjust", then press the ENTER button.

```
                        Picture
        Mode        ◄   Custom   ►
        Adjust
        Color Tone  ◄   Custom   ►
        Color Adjust
        DNIe        ◄     On     ►

        ↕ Move    ⤶ Enter    ▦ Menu
```

4 Press the UP or DOWN button to select the item you want to change, then press the RIGHT or LEFT button to change the value of the item, using the on-screen gauge as your guide.

```
                        Adjust
        Red         ▭▭▭▭      50
        Green       ▭▭▭▭      50
        Blue        ▭▭▭▭      50



        ↕ Move    ↔ Adjust    ▦ Menu
```

```
        Red     ◄ ▭▭▭▭▭ ►   82
```
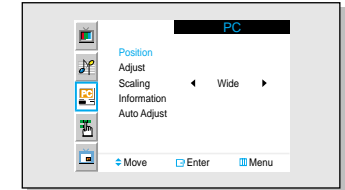
5 Press the MENU button to exit.

PC Changing the Position of the Image

After connecting the PDP to your PC, adjust the position of the screen if it is not well-aligned.
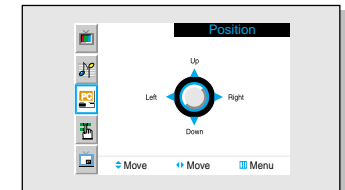
Preset:

- Press the TV/VIDEO button, then press the UP or DOWN button to select PC.
  Press the ENTER button to select PC mode.

1 Press the MENU button. Press the UP or DOWN button to select "PC", then press the ENTER button.

```
                             PC
        Position
        Adjust
        Scaling       ◄   Wide   ►
        Information
        Auto Adjust

        ↕ Move    ⤶ Enter    ▦ Menu
```

2 Press the MENU button, then adjust the screen position by using the UP/DOWN/LEFT/RIGHT button.

```
                         Position

                           Up
                    Left   ◯   Right
                          Down

        ↕ Move    ↔ Move    ▦ Menu
```

3 Press the MENU button to exit.

Picture Quality Adjustment

Picture Automatic Adjustment
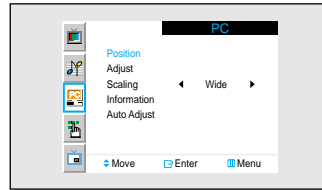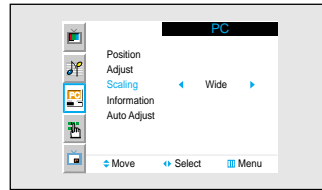
Preset:
- Press the TV/VIDEO button, then press the UP or DOWN button to select PC. Press the ENTER button to select PC mode.

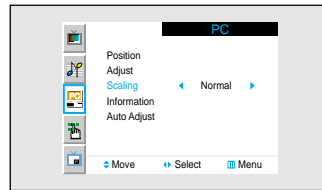**1** Press the MENU button. Press the UP or DOWN button to select "PC", then press the ENTER button.

```
                    PC
  Position
  Adjust
  Scaling      ◄   Wide   ►
  Information
  Auto Adjust

  ♦ Move    ➔ Enter   ▥ Menu
```

2 Press the UP or DOWN button to select "Auto Adjust", then press the ENTER button.

```
                    PC
  Position
  Adjust
  Scaling      ◄   Wide   ►
  Information
  Auto Adjust

  ♦ Move    ➔ Enter   ▥ Menu
```

3 The message "Auto Adjust" appears on the screen and the picture adjustments are automatically activated.

```
  Auto Adjust
```

4 Press the MENU button to exit.

Coarse Adjustment
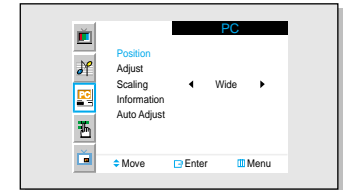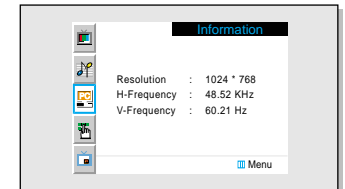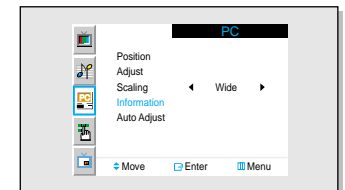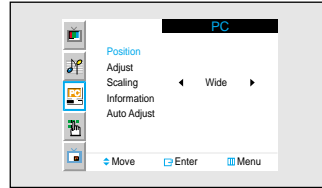
Preset:
- Press the TV/VIDEO button, then press the UP or DOWN button to select PC. Press the ENTER button to select PC mode.

1 Press the MENU button. Press the UP or DOWN button to select "PC", then press the ENTER button.

```
                    PC
  Position
  Adjust
  Scaling      ◄   Wide   ►
  Information
  Auto Adjust

  ♦ Move    ➔ Enter   ▥ Menu
```

2 Press the UP or DOWN button to select "Adjust", then press the ENTER button.

```
                    PC
  Position
  Adjust
  Scaling      ◄   Wide   ►
  Information
  Auto Adjust

  ♦ Move    ➔ Enter   ▥ Menu
```
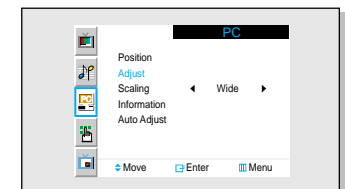
3 Press the UP or DOWN button to select "Coarse".

Remove picture noise (vertical stripes) on the screen by pressing the LEFT or RIGHT button. (If Coarse is not set properly, vertical stripes will appear on the screen.)

```
                   Adjust
  Corase     ▬▬▬▬      50
  Fine       ▬         7

  ♦ Move    ◄► Adjust  ▥ Menu
```

```
  Coarse  ◄ ▬▬▬▬ ► 53
```
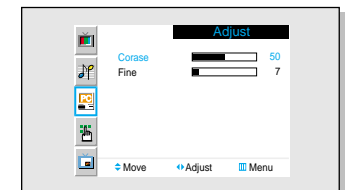
4 Press the MENU button to exit.
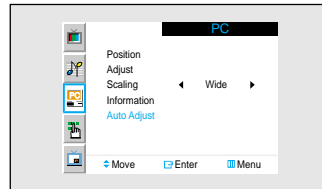
Fine Tuning (Fine)

Preset:

- Press the TV/VIDEO button, then press the UP or DOWN button to select PC.
  Press the ENTER button to select PC mode.

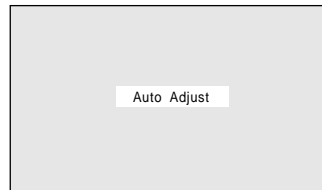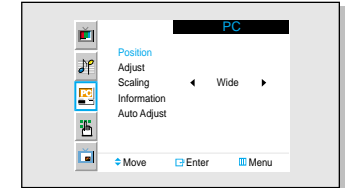1   Press the MENU button. Press the UP or DOWN button to select "PC", then press the ENTER button.

	PC
Position	
Adjust	
Scaling	◄ Wide ►
Information	
Auto Adjust	

‡ Move   ⏎ Enter   ▥ Menu

2   Press the UP or DOWN button to select "Adjust", then press the ENTER button.

	PC
Position	
Adjust	
Scaling	◄ Wide ►
Information	
Auto Adjust	

‡ Move   ⏎ Enter   ▥ Menu
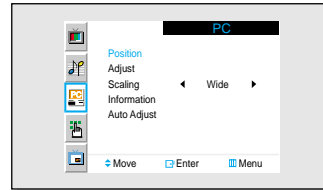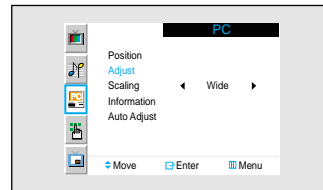
3   Press the UP or DOWN button to select "Fine".

Remove picture noise on the screen by pressing the LEFT or RIGHT button. (If Fine is not set properly, noise will appear on the screen.)

	Adjust
Corase	50
Fine	7

‡ Move   ‹› Adjust   ▥ Menu

Fine	◄ ▮▮▮ ► 53
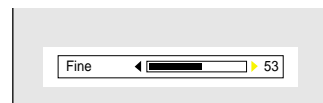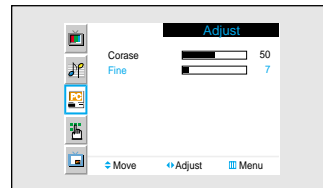
4   Press the MENU button to exit.

Time Setting

Setting the Clock

1. Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

	Function	
Language	◀ English ▶	
Time		
Caption		
NR	◀ Off ▶	
Auto Power Off	◀ Off ▶	
V-Chip		
Film Mode	◀ Off ▶	
↕ Move	↔ Select	▥ Menu

2. Press the UP or DOWN button to select "Time", then press the ENTER button.

	Function	
Language	◀ English ▶	
Time		
Caption		
NR	◀ Off ▶	
Auto Power Off	◀ Off ▶	
V-Chip		
Film Mode	◀ Off ▶	
↕ Move	⏎ Enter	▥ Menu

3. Press the LEFT or RIGHT button to select hour, then press the UP or DOWN button to select the correct hour.

	Time	
Clock	10 : -- am	
On Time	-- : -- am	Off
Off Time	-- : -- am	Off
Sleep		Off
On Time Volume		10
On time Channel		3
↕ Adjust	↔ Move	▥ Menu
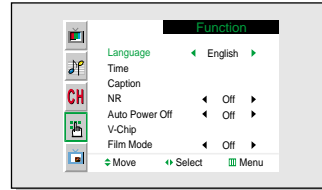
4. Press the LEFT or RIGHT button to select minute, then press the UP or DOWN button to select the correct minute.
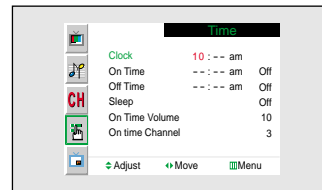
	Time	
Clock	10 : 30 am	
On Time	-- : -- am	Off
Off Time	-- : -- am	Off
Sleep		Off
On Time Volume		10
On time Channel		3
↕ Adjust	↔ Move	▥ Menu

5. Press the MENU button to exit.

Note
• Time setting will be reset when you pull out the Power cord if the PDP is ON.
  (If you want to keep the time setting, turn the PDP off using the POWER button on the remote control or the Front Panel.)

Setting the Sleep Timer

You can set your PDP to automatically turn off after a preset interval.

1. Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

➤ Quick way to access the sleep timer: Just press the "SLEEP" button on the remote control.
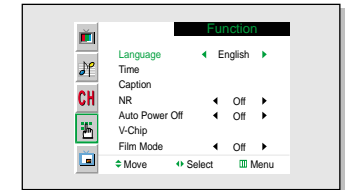
	Function	
Language	◀ English ▶	
Time		
Caption		
NR	◀ Off ▶	
Auto Power Off	◀ Off ▶	
V-Chip		
Film Mode	◀ Off ▶	
↕ Move	↔ Select	▥ Menu

2. Press the UP or DOWN button to select "Time", then press the ENTER button.
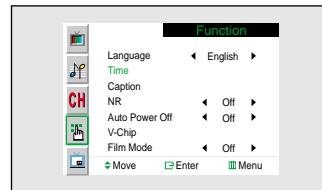
	Function	
Language	◀ English ▶	
Time		
Caption		
NR	◀ Off ▶	
Auto Power Off	◀ Off ▶	
V-Chip		
Film Mode	◀ Off ▶	
↕ Move	⏎ Enter	▥ Menu

3. Press the UP or DOWN button to select "Sleep".

	Time	
Clock	10 : 30 am	
On Time	-- : -- am	Off
Off Time	-- : -- am	Off
Sleep		Off
On Time Volume		10
On Time Channel		3
↕ Move	↔ Select	▥ Menu
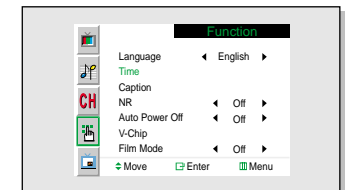
4. Press the LEFT or RIGHT button to select the time interval for the PDP to stay on. The interval ranges from 10 to 180 minutes.

	Time	
Clock	10 : 30 am	
On Time	-- : -- am	Off
Off Time	-- : -- am	Off
Sleep		30
On Time Volume		10
On Time Channel		3
↕ Move	↔ Select	▥ Menu
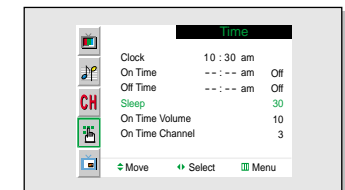
5. Press the MENU button to exit.

Setting the Timers

This PDP can be set to turn on or off automatically at specific times that you choose. Before using the timers, you must set the PDP's clock, as described previously.
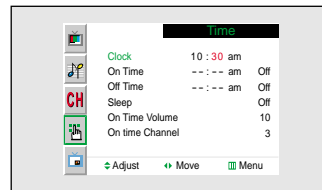
Setting the On/Off Timer

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

```
                        Function
Language        ◄  English  ►
Time
Caption
NR              ◄  Off  ►
Auto Power Off  ◄  Off  ►
V-Chip
Film Mode       ◄  Off  ►
‡ Move    ↔ Select    ▥ Menu
```

2 Press the UP or DOWN button to select "Time", then press the ENTER button.

```
                        Function
Language        ◄  English  ►
Time
Caption
NR              ◄  Off  ►
Auto Power Off  ◄  Off  ►
V-Chip
Film Mode       ◄  Off  ►
‡ Move    ↵ Enter    ▥ Menu
```

3 Press the UP or DOWN button to select "On Time".

```
                        Time
Clock           10 : 30  am
On Time         -- : -- am   Off
Off Time        -- : -- am   Off
Sleep                        Off
On Time Volume               10
On time Channel               3
‡ Move    ↔ Select    ▥ Menu
```

4 Press the LEFT or RIGHT button to select hour, then press the UP or DOWN button to select the correct hour.

```
                        Time
Clock           10 : 30  am
On Time          7 : -- am   Off
Off Time        -- : -- am   Off
Sleep                        Off
On Time Volume               10
On time Channel               3
‡ Adjust    ↔ Move    ▥ Menu
```

5 Press the LEFT or RIGHT button to select minute, then press the UP or DOWN button to select the correct minute.

```
                        Time
Clock           10 : 30  am
On Time          7 : 30 am   Off
Off Time        -- : -- am   Off
Sleep                        Off
On Time Volume               10
On time Channel               3
‡ Adjust    ↔ Move    ▥ Menu
```

6 Press the LEFT or RIGHT button to select "Off" or "On", then press the UP or DOWN button to select "Off" or "On".

```
                        Time
Clock           10 : 30  am
On Time          7 : 30 am   On
Off Time        -- : -- am   Off
Sleep                        Off
On Time Volume               10
On time Channel               3
‡ Adjust    ↔ Move    ▥ Menu
```

7 If you want to set Off Time, press the UP or DOWN button to select the "Off Time".
Set the "Off Time" just as you set "On Time".

```
                        Time
Clock           12 : 00  am
On Time          7 : 30 am   On
Off Time        -- : -- am   Off
Sleep                        Off
On Time Volume               10
On Time Channel               3
‡ Move    ↔ Select    ▥ Menu
```

8 Press the MENU button to exit.

Note
• If you set to On Time or Off Time, the Power Indicator on the Front Panel is changed to Green.

Setting the Preferred Channel and Volume Level

The preferred channel and volume can be set for when the timer automatically turns on the TV.

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

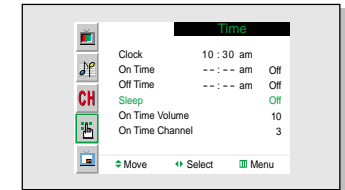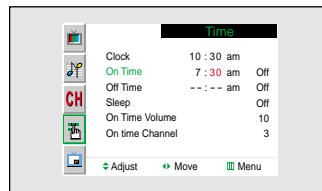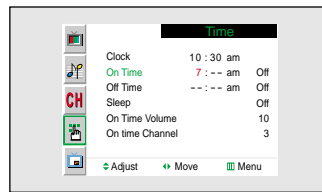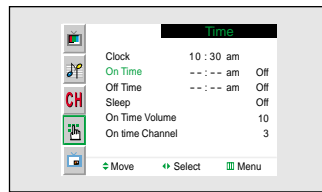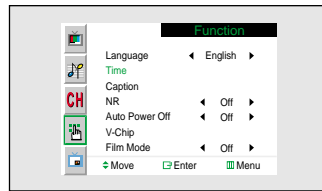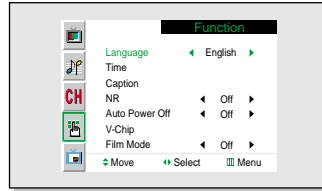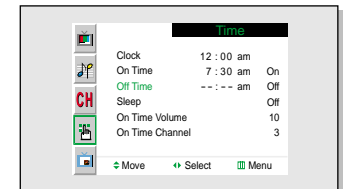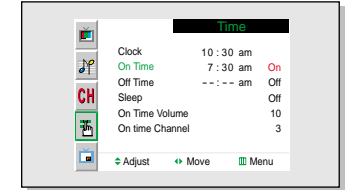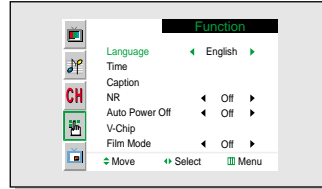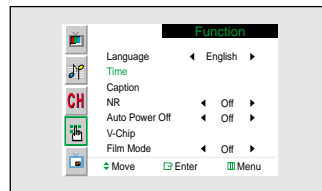|	Function		
Language	◀	English	▶
Time			
Caption			
NR	◀	Off	▶
Auto Power Off	◀	Off	▶
V-Chip			
Film Mode	◀	Off	▶
‡ Move	◀▶ Select	▥ Menu	

2 Press the UP or DOWN button to select "Time", then press the ENTER button.

	Function		
Language	◀	English	▶
Time			
Caption			
NR	◀	Off	▶
Auto Power Off	◀	Off	▶
V-Chip			
Film Mode	◀	Off	▶
‡ Move	◀┘ Enter	▥ Menu	

3 Press the UP or DOWN button to select "On Time Volume".
Press the LEFT or RIGHT button to adjust volume level.

	Time	
Clock	- - : - - am	
On Time	- - : - - am	Off
Off Time	- - : - - am	Off
Sleep		Off
On Time Volume		10
On Time Channel		3
‡ Move	◀▶ Select	▥ Menu
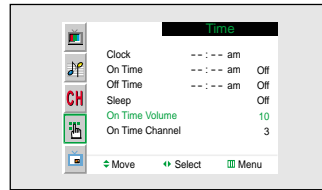
4 Press the UP or DOWN button to select "On Time Channel".
Press the LEFT or RIGHT button to select the channel.

	Time	
Clock	- - : - - am	
On Time	- - : - - am	Off
Off Time	- - : - - am	Off
Sleep		Off
On Time Volume		10
On Time Channel		3
‡ Move	◀▶ Select	▥ Menu
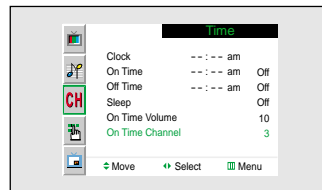
P L A S M A   D I S P L A Y   P A N E L

Function Description
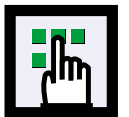
Selecting a Menu Language

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

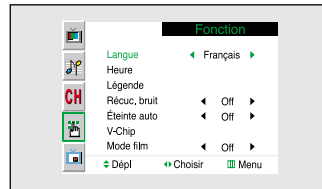|	Function
	Language ◄ English ►
	Time
	Caption
CH	NR ◄ Off ►
	Auto Power Off ◄ Off ►
	V-Chip
	Film Mode ◄ Off ►
	↕ Move ◄► Select ▥ Menu
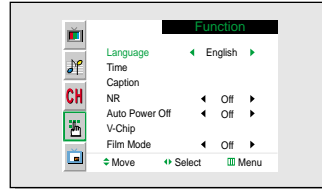
2 Press the LEFT or RIGHT button to select the appropriate language : English, Français or Español.

	Fonction
	Langue ◄ Français ►
	Heure
	Légende
CH	Récuc, bruit ◄ Off ►
	Éteinte auto ◄ Off ►
	V-Chip
	Mode film ◄ Off ►
	↕ Dépl ◄►Choisir ▥ Menu

3 Press the MENU button to exit.
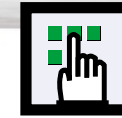
Viewing Closed Captions

Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: CC . Note: The Caption feature does not work with DVD or DTV signals.
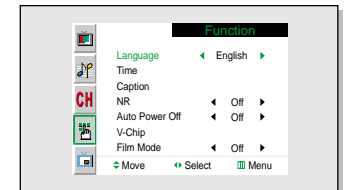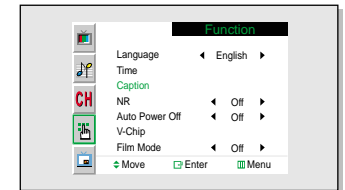
1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

	Function
	Language ◄ English ►
	Time
	Caption
CH	NR ◄ Off ►
	Auto Power Off ◄ Off ►
	V-Chip
	Film Mode ◄ Off ►
	↕ Move ◄► Select ▥ Menu

2 Press the UP or DOWN button to select "Caption", then press the ENTER button.

	Function
	Language ◄ English ►
	Time
	Caption
CH	NR ◄ Off ►
	Auto Power Off ◄ Off ►
	V-Chip
	Film Mode ◄ Off ►
	↕ Move ⏎ Enter ▥ Menu

3 Press the LEFT or RIGHT button to turn closed captioning On/Off.

	Caption
	Caption ◄ On ►
	Mode ◄ Caption ►
CH	Channel ◄ 2 ►
	Field ◄ 1 ►
	↕ Move ◄► Select ▥ Menu
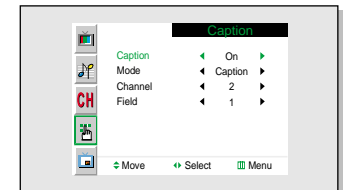
4 Press the UP or DOWN button to select "Mode", then press the LEFT or RIGHT button to select "Caption" or "Text."

	Caption
	Caption ◄ On ►
	Mode ◄ Text ►
CH	Channel ◄ 2 ►
	Field ◄ 1 ►
	↕ Move ◄► Select ▥ Menu
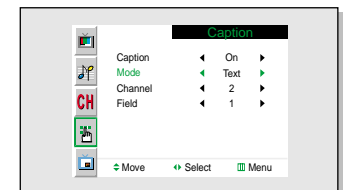
5 Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field": Press the UP/DOWN/LEFT/RIGHT button to make the changes. (Follow the same procedure as in steps 3~4 above.)
Press the MENU button to exit.

Note
• Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.
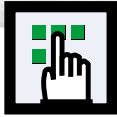
Digital Noise Reduction

If the broadcast signal received by your TV is weak, you can activate the Digital Noise Reduction feature to help reduce any static and ghosting that may appear on the screen.

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

```
                        Function
       Language      ◀ English ▶
       Time
       Caption
CH     NR            ◀  Off  ▶
       Auto Power Off ◀  Off  ▶
       V-Chip
       Film Mode     ◀  Off  ▶
       ↕ Move    ◀▶ Select    ▥ Menu
```
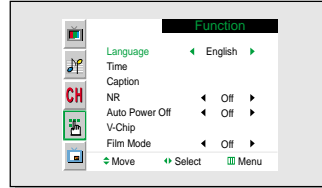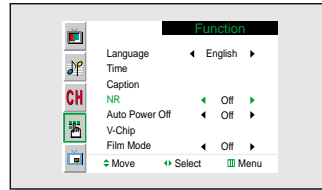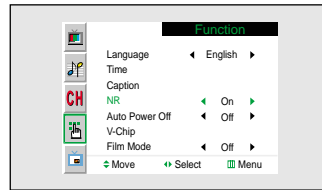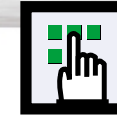
2 Press the UP or DOWN button to select "NR".

```
                        Function
       Language      ◀ English ▶
       Time
       Caption
CH     NR            ◀  Off  ▶
       Auto Power Off ◀  Off  ▶
       V-Chip
       Film Mode     ◀  Off  ▶
       ↕ Move    ◀▶ Select    ▥ Menu
```

3 Press the LEFT or RIGHT button to select "On".

```
                        Function
       Language      ◀ English ▶
       Time
       Caption
CH     NR            ◀  On   ▶
       Auto Power Off ◀  Off  ▶
       V-Chip
       Film Mode     ◀  Off  ▶
       ↕ Move    ◀▶ Select    ▥ Menu
```
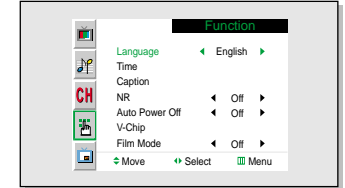
4 Press the MENU button to exit.

Setting Auto Power Off

The PDP can be set to turn off automatically if no buttons are pressed for 3 hours after the PDP turns on via the On timer.

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

```
                        Function
       Language      ◀ English ▶
       Time
       Caption
CH     NR            ◀  Off  ▶
       Auto Power Off ◀  Off  ▶
       V-Chip
       Film Mode     ◀  Off  ▶
       ↕ Move    ◀▶ Select    ▥ Menu
```

2 Press the UP or DOWN button to select "Auto Power Off".

```
                        Function
       Language      ◀ English ▶
       Time
       Caption
CH     NR            ◀  Off  ▶
       Auto Power Off ◀  Off  ▶
       V-Chip
       Film Mode     ◀  Off  ▶
       ↕ Move    ◀▶ Select    ▥ Menu
```

3 Press the LEFT or RIGHT button to select "On".

```
                        Function
       Language      ◀ English ▶
       Time
       Caption
CH     NR            ◀  Off  ▶
       Auto Power Off ◀  On   ▶
       V-Chip
       Film Mode     ◀  Off  ▶
       ↕ Move    ◀▶ Select    ▥ Menu
```
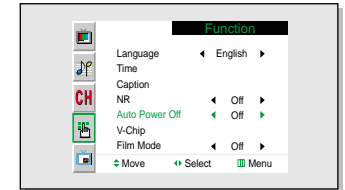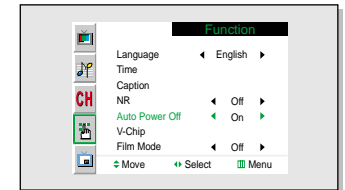
4 Press the MENU button to exit.

Note
- If the Off timer is set, Auto Power Off will not function.
- The power will be turned off automatically after 15 minutes if the PDP is ON and there is no input signal. (For instance, if you select a channel without a signal while in TV mode or when there is no input signal after selecting an output signal)
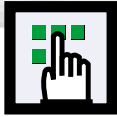
Using the V-Chip

The V-Chip feature automatically locks out programs that are deemed inappropriate for children. The user must enter a PIN (personal ID number) before any of the V-Chip restrictions are set up or changed.
Note : When the V-chip feature is activated, the PIP and auto channel program features do not function.

Setting Up Your Personal ID Number (PIN)

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

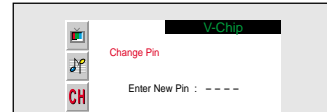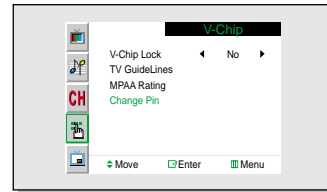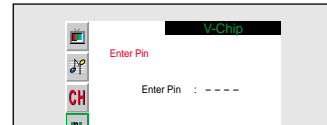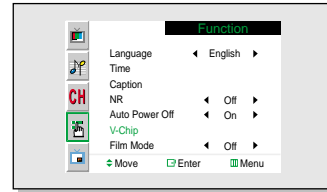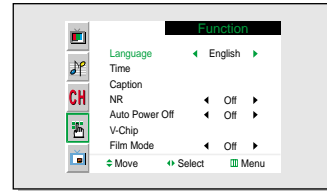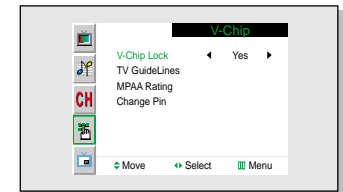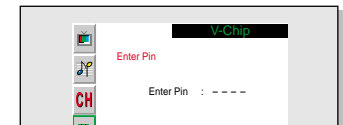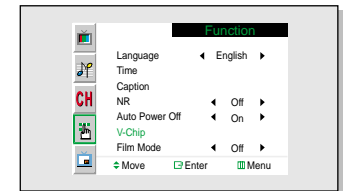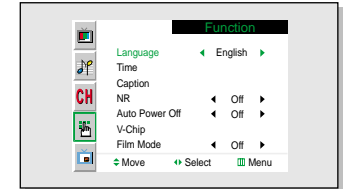|	Function
Language	◄ English ►
Time	
Caption	
NR	◄ Off ►
Auto Power Off	◄ Off ►
V-Chip	
Film Mode	◄ Off ►
‡ Move	◄► Select ▥ Menu

2 Press the UP or DOWN button to select "V-Chip", then press the ENTER button.

	Function
Language	◄ English ►
Time	
Caption	
NR	◄ Off ►
Auto Power Off	◄ On ►
V-Chip	
Film Mode	◄ Off ►
‡ Move	⏎ Enter ▥ Menu

3 The message "Enter Pin" will appear. Enter your 4-digit PIN number.

Note: The default PIN number of a new TV set is "0-0-0-0."

	V-Chip
Enter Pin	
Enter Pin	: – – – –

4 The "V-Chip" screen will appear. Press the UP or DOWN button to select "Change Pin," then press the ENTER button.

	V-Chip
V-Chip Lock	◄ No ►
TV GuideLines	
MPAA Rating	
Change Pin	
‡ Move	⏎ Enter ▥ Menu

5 The Change pin screen will appear. Choose any 4-digits for your PIN and enter them.
As soon as the 4 digits are entered, the "Confirm New Pin" screen appears. Re-enter the same 4 digits. When the Confirm screen disappears, your PIN has been memorized.

	V-Chip
Change Pin	
Enter New Pin	: – – – –

	V-Chip
Confirm New Pin	
Confirm New Pin	: ▪ ▪ ▪ –

6 Press the MENU button to exit.

Note
• If you forget the PIN, press the remote-control buttons in the following sequence, which resets the pin to 0-0-0-0 : Power Off ➜ Mute ➜ 8 ➜ 2 ➜ 4 ➜ Power On.

How to Enable/Disable the V-Chip

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

	Function
Language	◄ English ►
Time	
Caption	
NR	◄ Off ►
Auto Power Off	◄ Off ►
V-Chip	
Film Mode	◄ Off ►
‡ Move	◄► Select ▥ Menu

2 Press the UP or DOWN button to select "V-Chip", then press the ENTER button.

	Function
Language	◄ English ►
Time	
Caption	
NR	◄ Off ►
Auto Power Off	◄ On ►
V-Chip	
Film Mode	◄ Off ►
‡ Move	⏎ Enter ▥ Menu

3 The message "Enter Pin" will appear. Enter your 4-digit PIN number.

	V-Chip
Enter Pin	
Enter Pin	: – – – –

4 The "V-Chip" screen will appear.
To enable the V-Chip feature, press the RIGHT button so that the "V-Chip Lock" field is Yes.
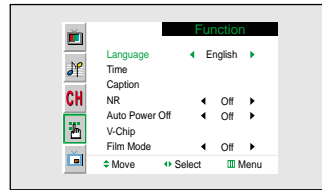(Pressing the left or right button will alternate between "Yes" and "No".)

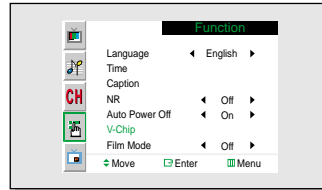|	V-Chip
V-Chip Lock	◄ Yes ►
TV GuideLines	
MPAA Rating	
Change Pin	
‡ Move	◄► Select ▥ Menu

5 Press the MENU button to exit.

How to Set up Restrictions Using the "TV guidelines"

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.)
Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.
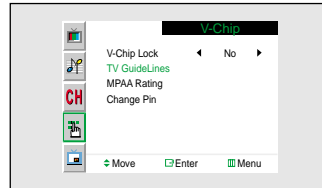
```
                              Function
     Language        ◀ English ▶
     Time
     Caption
 CH  NR              ◀   Off   ▶
     Auto Power Off  ◀   Off   ▶
     V-Chip
     Film Mode       ◀   Off   ▶
     ↕ Move    ◀▶ Select    ▥ Menu
```

2 Press the UP or DOWN button to select "V-Chip", then press the ENTER button.

```
                              Function
     Language        ◀ English ▶
     Time
     Caption
 CH  NR              ◀   Off   ▶
     Auto Power Off  ◀   On    ▶
     V-Chip
     Film Mode       ◀   Off   ▶
     ↕ Move    ⏎ Enter    ▥ Menu
```

3 The message "Enter Pin" will appear. Enter your 4-digit PIN number.

```
                              V-Chip
     Enter Pin

 CH  Enter Pin  :  – – – –
```
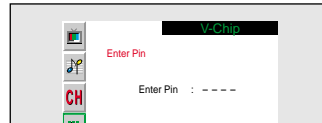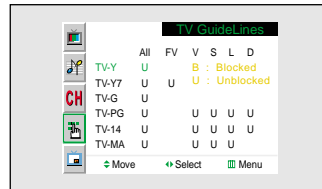
4 The "V-Chip" screen will appear.
Press the UP or DOWN button to select "TV Guide-Lines", press the ENTER button.

```
                              V-Chip
     V-Chip Lock     ◀   No    ▶
     TV GuideLines
 CH  MPAA Rating
     Change Pin

     ↕ Move    ⏎ Enter    ▥ Menu
```

5 The "TV GuideLines" screen will appear. Press the UP or DOWN button to select one of the six age-based categories:

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

```
                         TV GuideLines
             All  FV  V  S  L  D
     TV-Y    U            B : Blocked
     TV-Y7   U   U        U : Unblocked
 CH  TV-G    U
     TV-PG   U        U  U  U  U
     TV-14   U        U  U  U  U
     TV-MA   U        U  U  U
     ↕ Move    ◀▶ Select    ▥ Menu
```

6 At this point, one of the TV-Ratings is selected.
Press the RIGHT button : Depending on your existing setup, a letter "U" or "B" will start blinking.
(U= Unblocked, B= Blocked)

While the "U" or "B" is blinking, press the UP or DOWN button to block or unblock the category.
Press the RIGHT button to save the TV guidelines. A TV-Rating will be selected, and no letters will blink.
To select a different TV-Rating, press the UP or DOWN button and then repeat the process.

Note 1: The TV-Y7, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

FV: Fantasy violence
D: Sexually Sugessive Dialog
L: Adult Language
S: Sexual situation
V: Violence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive".
For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked.
Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

7 How to set the FV, D, L, S and V sub-ratings.
First, select one of these TV-Ratings: TV-Y7, TV-PG, TV-14 or TV-MA (See Step 4, on previous page).
Next, while the TV-Rating is selected, repeatedly press the RIGHT button.
This will cycle through the available sub-ratings (FV,L, S, D or V).
A blinking letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is blinking, press the UP or DOWN button to change the sub-rating.
Press the RIGHT button to save the TV guidelines. A TV-Rating will be selected and no letters will select. To select a different TV-Rating, press the UP or DOWN button and then repeat the process.
Note: The V-chip will automatically block certain categories that are "More restrictive".
For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

8 Press the MENU button to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

Note
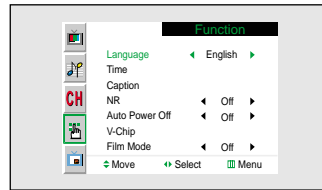- Note: These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else). The TV-Y and TV-Y7 categories are colored blue.

  The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)
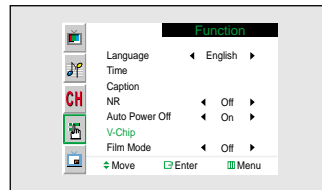
How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).
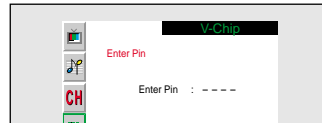
1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

	Function
Language	◀ English ▶
Time	
Caption	
NR	◀ Off ▶
Auto Power Off	◀ Off ▶
V-Chip	
Film Mode	◀ Off ▶
⬍ Move	◀▶ Select ▥ Menu

2 Press the UP or DOWN button to select "V-Chip", then press the ENTER button.

	Function
Language	◀ English ▶
Time	
Caption	
NR	◀ Off ▶
Auto Power Off	◀ On ▶
V-Chip	
Film Mode	◀ Off ▶
⬍ Move	↵ Enter ▥ Menu

3 The message "Enter Pin" will appear. Enter your 4-digit PIN number.

	V-Chip
Enter Pin	
Enter Pin	: – – – –

**4** The "V-Chip" screen will appear. Press the UP or DOWN button to select "MPAA Rating," press the ENTER button.

	V-Chip
V-Chip Lock	◀ No ▶
TV GuideLines	
MPAA Rating	
Change Pin	
⬍ Move	↵ Enter ▥ Menu
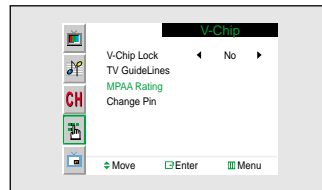
5 The "MPAA Rating" screen will appear. MPAA category. Pressing the UP or DOWN button will cycle through the MPAA categories:

	MPAA Rating
G U	
PG U	B : Blocked
PG-13 U	U : Unblocked
R U	
NC-17 U	
X U	
NR U	
⬍ Move	◀▶ Enter ▥ Menu

G	General audience (no restrictions).
PG	Parental guidance suggested.
PG-13	PG-13 (Parents strongly cautioned).
R	R (Restricted. Children under 17 should be accompanied by an adult).
NC-17	No children under age 17.
X	X (Adults only).
NR	Not rated.
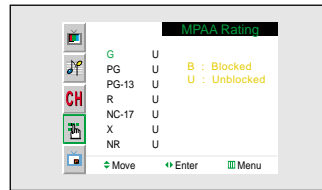
While a particular category is selected, press the RIGHT button to activate it.
A selected letter ("U" or "B") will be displayed. Press the UP or DOWN button to select "U" or "B".
Press the RIGHT button to save the settings.
Note: The V-Chip will automatically block any category that is "more restrictive. "For example, if you block the "PG-13" category, then "R", "NC-17" and "X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel ("Emergency Escape")

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: "Excessive rating."

To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V.Chip function for an "emergency escape":

1 Press the MENU button.

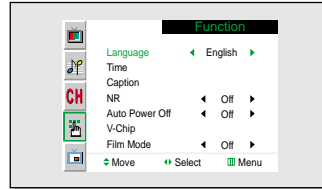**2** Press the UP or DOWN button to select "V-Chip", then press the ENTER button.

3 Enter your PIN number, and press the RIGHT button to temporarily disable the V-Chip Lock.
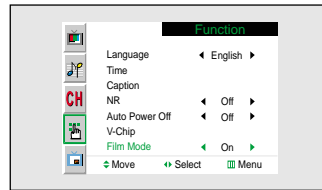
Selecting the Film Mode

1 Press the MENU button. Press the UP or DOWN button to select "Function", then press the ENTER button.

	Function	
Language	◄ English ►	
Time		
Caption		
NR	◄ Off ►	
Auto Power Off	◄ Off ►	
V-Chip		
Film Mode	◄ Off ►	
↕ Move	◄► Select	▥ Menu

2 Press the DOWN button to select Film Mode, then press the RIGHT or LEFT button to select "On" or "Off".

   •On: Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality.
   •Off: Switches off the Film mode.

	Function	
Language	◄ English ►	
Time		
Caption		
NR	◄ Off ►	
Auto Power Off	◄ Off ►	
V-Chip		
Film Mode	◄ On ►	
↕ Move	◄► Select	▥ Menu

3 Press the MENU button to exit.

Note
• Film mode is supported in Video, S-Video, Component 480i.

PLASMA DISPLAY PANEL

Appendix ?

? Troubleshooting

Before you call a service technician, please scan this list of problems and possible solutions. It may save you time and money.

Problem	Possible Solution
Poor picture.	Check all wire connections.
Your Remote control does not operate the PDP.	Press the "Mode" button to put your remote control in the "TV" mode.
The PDP won't turn on.	Check if the power plug is connected.
There is no screen image.	Check to see that both the PDP and the source are plugged in and turned on.
The image is too light or too dark.	Adjust the Brightness or Contrast settings.
The image is too large or too small.	Adjust the Size settings.

? Care and Maintenance

With proper care, your PDP will give you many years of service. Please follow these guidelines to get the maximum performance from your PDP.

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.

? Specifications

? Memo

Exterior design and product specifications are subject to change without prior notice to improve the performance of this product.

This PDP applies to Class B digital device.
(Note: Class B system is for home use.)
This PDP has been registered for residential use in terms of EMI. So it can be used in all areas as well as residential areas.

Model		HPN4235
Dimensions	Display	1027 (W) X 86.5 (D) X 630.5 (H) mm ; 40.43 (W) X 3.11 (D) X 24.82(H) inches
	Remote Control	58 (W) X 21 (D) X 210 (H) mm ; 2.28 (W) X 0.83 (D) X 8.27 (H) inches
Weight	Display	37 kg
	Remote Control	134g ; 0.295 lbs (including batteries)
Voltage		120V~, 60Hz
Power Consumption		330 Watts
Number of Pixels		1024(H) x 768(V)
Screen Size		107 Cm/42 inches
ANTENNA input		VHF, UHF (75Ω unbalanced)
VIDEO input		VIDEO S-VIDEO COMPONENT 1 - 480i / 480p / 720p / 1080i COMPONENT 2 - 480i / 480p / 720p / 1080i RGB : D-SUB 15P DVI
AUDIO input		VIDEO / S-VIDEO COMPONENT 1 COMPONENT 2 PC (RGB) DVI
AUDIO output		10W + 10W (8 Ω) Subwoofer (500mv RMS at 1KHz)