



SAMSUNG PLASMA DISPLAY

Owner's Instructions

HPN6339



ELECTRONICS

SERVICE DIVISION
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Mount Arlington, NJ 07856
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www.samsungusa.com



Warning! Important Safety Instructions

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this 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 éviter les chocs électriques, 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.

Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung product represents the latest in television technology. We designed it with easy-to-use on-screen menus and closed captioning capabilities, making it one of the best products in its class. We are proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

Important Safety Information

Always be careful when using your PDP. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- Read all safety and operating instructions before operating your PDP.
- Keep the safety and operating instructions for future reference.
- Heed all warnings on the PDP and in the operating instructions.
- Follow all operating and use instructions.
- Unplug the PDP from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.
- Do not use the PDP where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Do not place the PDP on an unstable cart, stand, tripod, bracket, table, or floor where it can fall. A falling PDP can cause serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the PDP. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the PDP and cart with care. Quick stops, excessive force, and uneven surfaces can make the unit and cart unsteady and likely to overturn.
- Provide ventilation for the PDP. The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the PDP on a bed, sofa, rug, or other similar surface. Do not place it near a radiator or heat register. If you place the PDP on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.
- Operate your PDP only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.
- Use only a grounded or polarized outlet. For your safety, this PDP is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.



FCC Information

- Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- Unplug the PDP from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.
- Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.
- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.
- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the PDP.
- Ground outdoor antennas. If an outside antenna or cable system is connected to the PDP, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No. 70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.
- Do not attempt to service the PDP yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - when the power-supply cord or plug is damaged
 - if liquid has been spilled on the unit or if objects have fallen into the unit
 - if the PDP has been exposed to rain or water
 - if the PDP does not operate normally by following the operating instructions
 - if the PDP has been dropped or the cabinet has been damaged
 - when the PDP exhibits a distinct change in performance
- If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the PDP to normal.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
- Upon completion of any service or repairs to this PDP, ask the service technician to perform safety checks to determine that the PDP is in a safe operating condition.
- The PDP can properly operate in a temperature range of 32-104°F(0-40°C) and 80% humidity. Do not use in a hot and humid place.
- Before moving the PDP equipped with speakers, separate the speakers from the PDP. If you move the PDP with the speakers attached, it may result in damage or injury.

User Instructions

The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:
 NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation .

If this equipment does cause harmful interference to radio or television receptions, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

User Information

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. If necessary, consult your dealer or an experienced radio/television technician for additional suggestions. You may find the booklet called How to Identify and Resolve Radio/TV Interference Problems helpful. This booklet was prepared by the Federal Communications Commission. It is available from the U.S. Government Printing Office, Washington, DC 20402, Stock Number 004-000-00345-4 .

The party responsible for product compliance:
 SAMSUNG ELECTRONICS CO., LTD
 America QA Lab of Samsung
 3351 Michelson Drive,
 Suite #290, Irvine, CA92612 USA

Warning

User must use shielded signal interface cables to maintain FCC compliance for the product. Provided with this monitor is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL Listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating. For 120 Volt applications, use only UL Listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL Listed Detachable power supply cord with NEMA configuration 6015P type (tandem blades) plug cap.

IC Compliance Notice

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations of ICES-003.

Cet appareil Numérique de classe B respecte toutes les exigences du Règlement NMB-03 sur les équipements produisant des interférences au Canada.

Notice de Conformité IC

Cet appareil numérique de classe B respecte toutes les exigences du Règlement ICES-003 sur les équipements produisant des interférences au Canada.

VCCI

This is a Class B product based on the standard of the Voluntary Control Council for Interference by Information Technology Equipment (VCCI). If this is used near a radio or television receiver in a domestic environment, it may cause radio interference. Install and use the equipment according to the instruction manual.

Important Warranty Information Regarding Television 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 television video and programming, should be limited to no more than 5% of the total television viewing per week.

Additionally, viewing other stationary images and text such as stock market reports, video game displays, station logos, web sites or computer graphics and patterns, should be limited as described above for all televisions. **Displaying stationary images that exceed the above guidelines can cause uneven aging of 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 television 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 several minutes as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, refer to page 40 of this manual to 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.

Altitude

The PDP will not operate normally at altitudes above 6500 ft.

Warranty

Warranty Period: Two years starting from the purchase of your PDP.
Warranty does not cover any damage caused by image retention.

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General Information



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Your New Plasma Display Panel

Front Panel

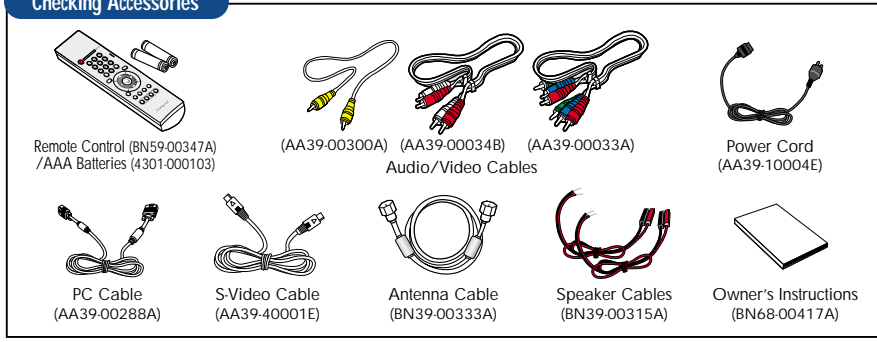


Remote Control Signal Receiver
Aim the remote control towards this spot on the PDP.

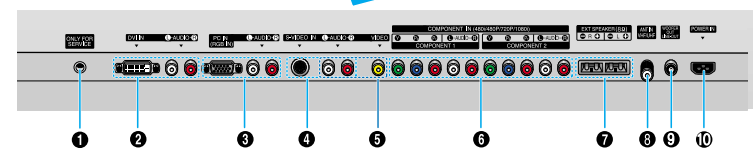
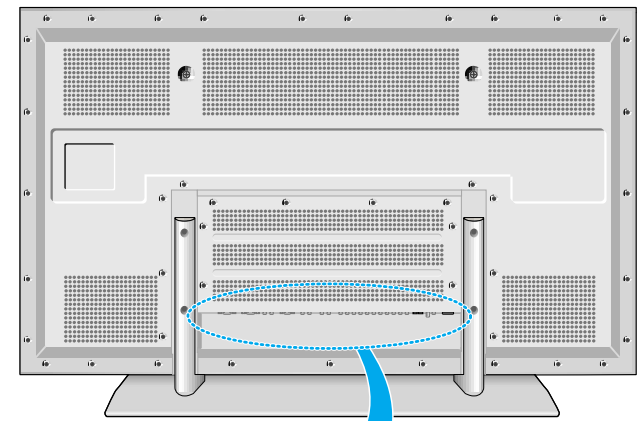
- SOURCE button**
Press to display all of the available video sources (ie., Video, S-Video, Component1, Component2, PC).
- MENU button**
Displays the main on-screen menu.
- VOL(+,-) button**
Press to increase or decrease the volume. Also used to select or adjust items on the on-screen menu.
- CH(▼,▲) button**
Press CH▲ or CH▼ to change Channels. Also used to move up or down in the On-screen menu.
- POWER(I/O) button**
Press to turn the PDP on and off.

Power Indicator
Power Off : LED Red
Power On (Timer On) :LED Green
Power On (Timer Off) : LED Off

Checking Accessories



Rear Panel



- 1 Service jack**
- 2 DVI Input jacks**
Receives the digital video/audio signals from a set top box or PC.
- 3 PC(RGB) Input jacks(15pin)**
Connect to the video/audio output jacks on your PC.
- 4 S-Video Input jacks**
Connect a S-Video/audio signals from external sources such VCRs or DVD players.
- 5 Video Input jacks**
Connect a video/audio signals from external sources such VCRs or DVD players.
- 6 Component Video/Audio Input jacks (Y/Pb/P./Audio L/Audio R)**
Connect to the audio and component output jacks of a DVD player or Set-Top Box.
- 7 External Speaker Out jacks**
Connect external speakers.
- 8 Antenna jack**
Connect to antenna.
- 9 Sub-woofer speaker output jack**
Connect to the Sub-woofer speaker jack.
- 10 Power Input jack**
Connect the supplied power cord.



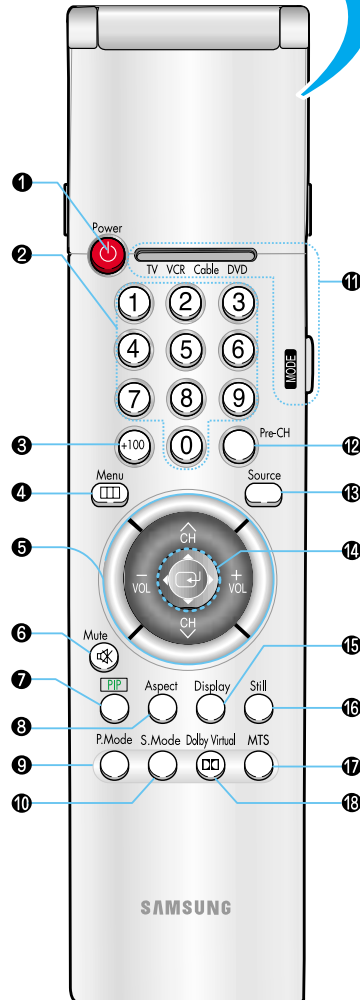
Remote Control Buttons

Remote Control

Flip the cover open in the arrow direction.



- 1 Power button**
Turns the PDP on and off.
- 2 Number buttons**
- 3 +100 button**
Press to select channels over 100. For example, to select channel 121, press "+100", then press "2" and "1."
- 4 Menu button**
Displays the main on-screen menu.
- 5 CH (Channel) and VOL (Volume) buttons**
Use it to switch channels or adjust volume.
- 6 Mute button**
Press to mute the PDP sound.
- 7 PIP button**
Activates picture in picture.
- 8 Aspect button**
Press to change the screen size.
- 9 P.Mode button**
Adjust the PDP picture by selecting one of the preset factory settings (or select your personal, customized picture settings.)
- 10 S.Mode button**
Adjust the PDP sound by selecting one of the preset factory settings (or select your personal, customized sound settings.)
- 11 Mode button**
Selects a target device to be controlled by the Samsung remote control (i.e., VCR, Cable, or DVD players).
- 12 Pre-CH button**
Tunes to the previous channel.
- 13 Source button**
Press to display all of the available video sources (i.e., Video, S-Video, Component1, Component2, PC, DVI).
- 14 Joystick button**
Use it to move between options, select an option or adjust the On-screen menu.
- 15 Display button**
Press to display information on the PDP screen.
- 16 Still button**
Press to pause the current screen.
- 17 MTS button**
Press to choose stereo, mono or Separate Audio Program (SAP broadcast).
- 18 Dolby Virtual button**
This feature allows the TV's L/R speakers to provide a Home Theater-like Dolby effect. The center and surround sounds are mixed into the L/R speakers.



- 19 Sleep button**
Press to select a preset time interval for automatic shutoff.
- 20 CH.Scan button**
Press to memorize(scan) the available channels.
- 21 Caption button**
Controls the caption decoder.
- 22 PIP control buttons**
Source : Press to select one of the available signal sources for the PIP window.
Swap : Exchanges the video signal that is currently displayed on the main screen with the signal in the PIP window.
Locate : Press to move the PIP window on the screen.
S.Swap: Press to select the audio (PIP or Main).
Size : Press to make the PIP window Large, Small or Double.
CH▲▼: Displays the available channels in sequence. (These buttons change channels in the PIP window only).
- 23 Auto Program button**
The TV automatically cycles through all of the available channels and stores them in memory.
- 24 SET button**
Used during setup of this remote control, so that it will work compatibly with other devices (VCR, cable box, DVD, etc.)
- 25 Add/Erase button**
Press to add or erase channels in the TV's memory.
- 26 VCR, DVD control buttons**
Controls VCR tape or DVD disc functions: Stop, Rewind, Play/Pause, Fast Forward.



Installing the Batteries in Your Remote Control

- 1** Slide the back cover to open the battery compartment of the remote control.
- 2** Install two AAA size batteries. Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.
- 3** Slide the cover back into place.



Remote Control Operation Range.

You can use your remote control within a distance of 23 feet and an angle of 30 degrees from the left and right sides of the remote control receiver of the PDP.



Wall Installation Instructions

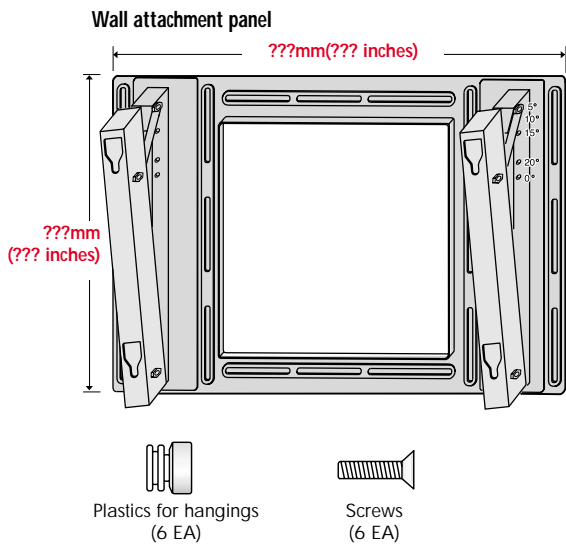
Installation Notes

- 1 Do not install the PDP in any location other than a vertical wall.

- 2 To protect the performance of the PDP and prevent problems, avoid the following places.
 - Do not install next to smoke and fire detectors.
 - Do not install in an area subjected to vibration.
 - Do not install in an area subjected to high voltage.
 - Do not install near or around any heating apparatus.

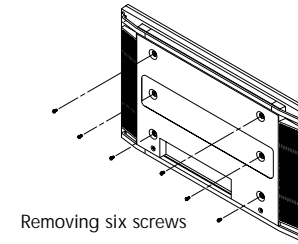
- 3 Use only recommended parts and components.

Parts (Wall attachment panel is sold separately. Check with your dealer)

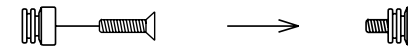


Fixing the PDP panel to the wall attachment panel bracket

- 1 Remove the screws on the rear of the PDP panel.

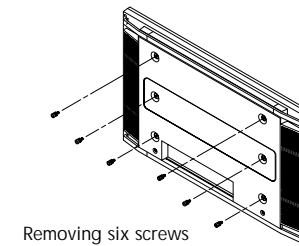


- 2 Connect plastic hangers to screws. (see the illustration below)

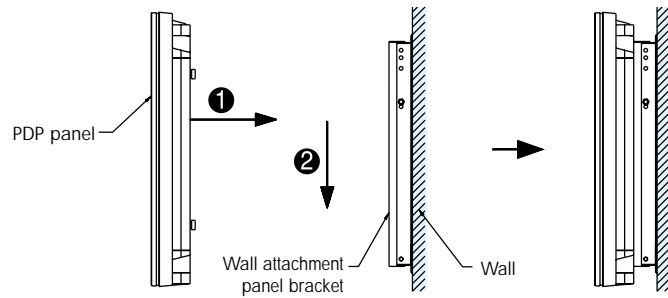


1. Contact an authorized technician when installing the wall attachment panel.
2. After hanging the PDP panel on the wall attachment panel, make sure that the plastic hangers are completely hung.
3. Be careful so that fingers are not caught.
4. Make sure the wall attachment panel brackets are tightened. Otherwise, the PDP panel may fall down and you might be hurt.

- 3 Tighten the screws connected to the plastic hangers on the rear of the PDP panel.



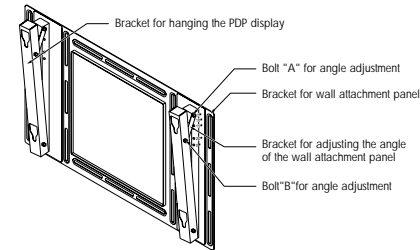
- 3 After inserting the plastic hangers of the PDP panel into the groove of the wall attachment panel (1), lift down (2) and tightly hang the PDP panel on the wall attachment panel.



Adjusting the angle of the wall attachment panel

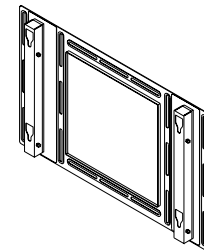
Adjust the angle you want before installing the wall attachment panel on the wall.
Notice : The factory default angle is 5 degrees.

Changing the angle to 0 degree



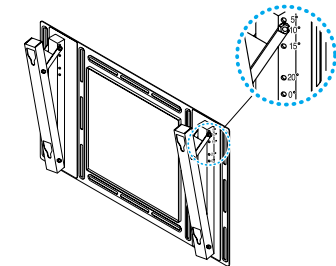
- 1 Loosen the screws for adjusting the wall attachment panel, "A" and "B".
- 2 Remove the bracket for adjusting the angle of the wall attachment panel.
- 3 Fit the bracket for hanging the PDP display into the hole on the PDP display.
- 4 Fit the screw for adjusting the wall attachment panel into the hole indicated by 0 degree and tighten it again.

Factory default



The factory default angle of wall attachment panel is 5 degrees.

Changing the angle to 10 degrees



- 1 Loosen the screw for adjusting the wall attachment panel, "A".
- 2 Fit the bracket for angle adjustment to the hole indicated by 10 degrees on the wall attachment panel.
- 3 Fit the screw "A" for adjusting the wall attachment panel to the hole indicated by 0 degree and tighten it again.

- Change the angle to 15 degrees, 20 degrees and other degrees in the same methods as 10 degrees.

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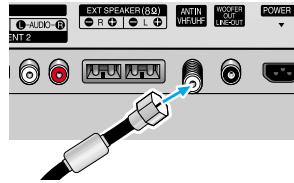


Connecting VHF and UHF Antennas

Antennas with 75-ohm Round Leads

If your antenna looks like this:  it has 75-ohm round leads.

- 1 Plug the antenna lead into the VHF/UHF terminal on the PDP. Use the Antenna Cable (BN39-00333A), an accessory included in the product package.

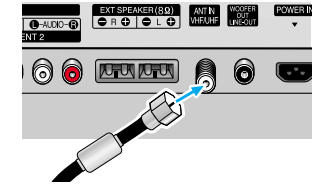


Connecting Cable TV

You can connect different cable systems to your PDP, including cable without a cable box, and cable with a cable box that descrambles some or all channels.

Cable without a Cable Box

- 1 Plug the incoming cable into the VHF/UHF terminal on the PDP. Use the Antenna Cable (BN39-00333A), an accessory included in the product package.

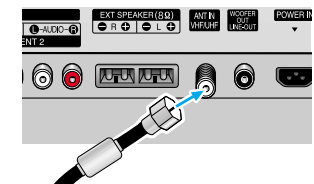


Cable with a Cable Box that Descrambles All Channels.

- 1 Find the cable connected to the ANTENNA OUT terminal on your cable box. This terminal might be labeled "ANT OUT", "VHF OUT", or simply "OUT".



- 2 Connect the cable to the VHF/UHF terminal on the PDP. Use the Antenna Cable (BN39-00333A), an accessory included in the product package.





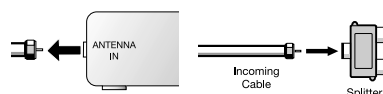
Connecting Speakers

External speakers are sold separately. Check with your dealer.

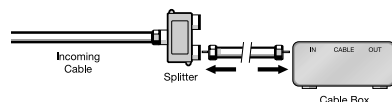
Cable with a Cable Box that Descrambles Some (But Not All) Channels

To complete this connection you will need a two-way splitter, a RF (A/B) switch, and four coaxial cables (which you can buy from your Samsung dealer or any electronics store).

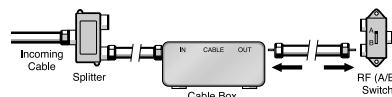
- 1 Find and disconnect the cable that is connected to the ANTENNA IN terminal of your cable box. This terminal might be labeled "ANT IN", "VHF IN", or simply, "IN". Connect this cable to a two-way splitter.



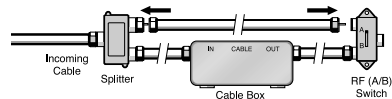
- 2 Connect a coaxial cable between an OUTPUT terminal of the splitter and the IN terminal of the cable box.



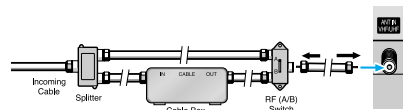
- 3 Connect a coaxial cable between the ANTENNA OUT terminal of the cable box and the B-IN terminal of the A/B switch.



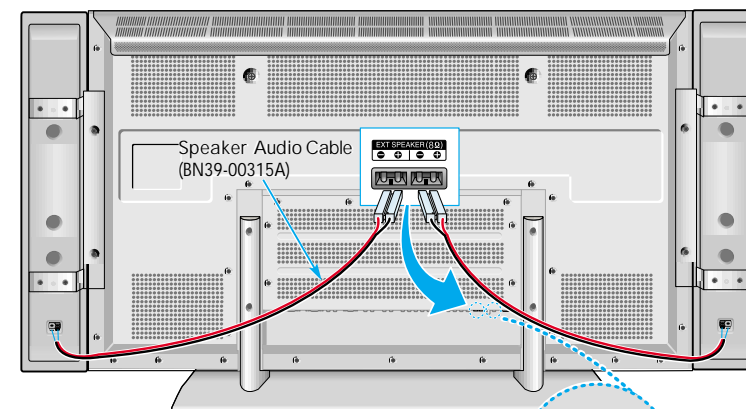
- 4 Connect a coaxial cable between the ANTENNA OUT terminal of the cable box and the B-IN terminal of the A/B switch.



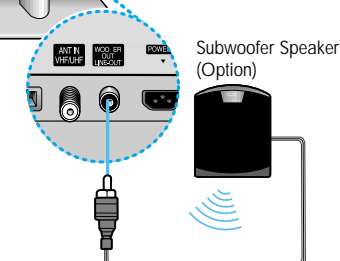
- 5 Connect the last coaxial cable between the OUT terminal of the RF (A/B) switch and the VHF/UHF terminal on the PDP.



After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B", you will need to tune your Set-Top Box to the cable box's output channel, which is usually channel 3 or 4.)



- * External speakers MUST have a power handling capability of 10 watts minimum (impedance 8 ohm).

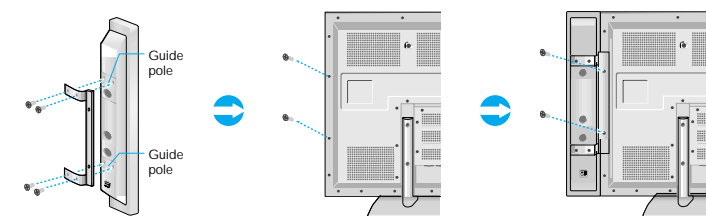


How to Connect

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

Connecting PDP and Speakers

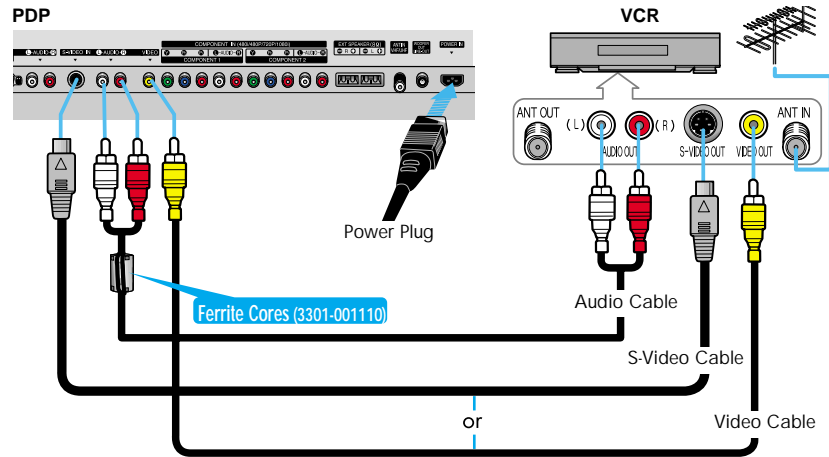
- 1 Fix the bracket onto the guide pole located on the rear of speaker and fasten the screws.
- 2 After removing the three screws on the PDP, clamp the speaker and the PDP together and fasten the screws.





Connecting a VCR

Connecting a VCR to the Video or S-Video/Audio jack



How to Connect

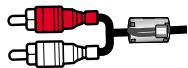
Connect the Video/Audio cables between the AUDIO(L/R)/VIDEO jacks on the PDP and AUDIO/VIDEO OUT jacks on the VCR. (Note: For better video, you can use an S-Video cable.)

Videotape Playback:

1. Turn on your PDP, and press the SOURCE button on the remote control.
2. Move the joystick up or down to select "Video" or "S-Video", then press the joystick to enter.
3. Turn on your VCR, insert a videotape and press the play button.

Ferrite Cores (3301-001110)

The ferrite cores are used to attenuate undesired signals. When connecting audio cable (PC, DVI, S-Video, Video), attach one of these ferrite cores to the cable near the connector.

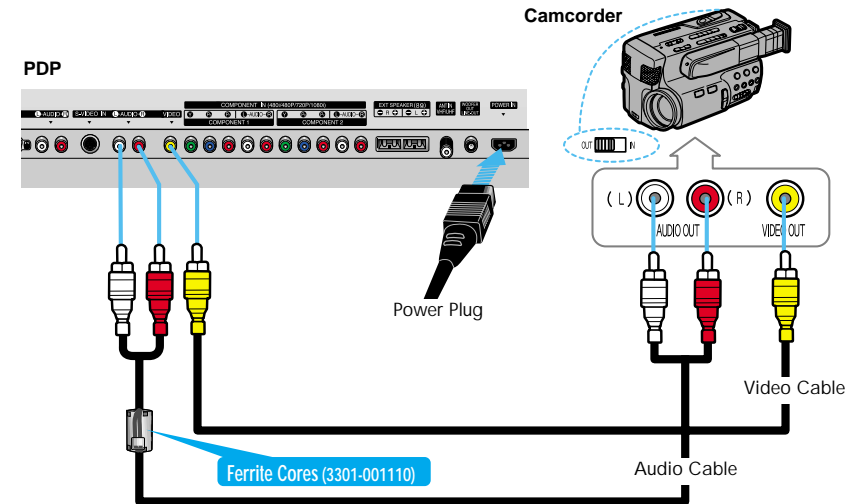


When you connect the audio cable (PC, DVI, S-Video, Video) to the connectors, first bind round the ferrite core to secure it.



Connecting a Camcorder

Viewing camcorder tapes



How to Connect

Connect a Video/Audio cable between the AUDIO(L/R)/VIDEO jacks on the PDP and the VIDEO/AUDIO OUTPUT jacks on the camcorder.

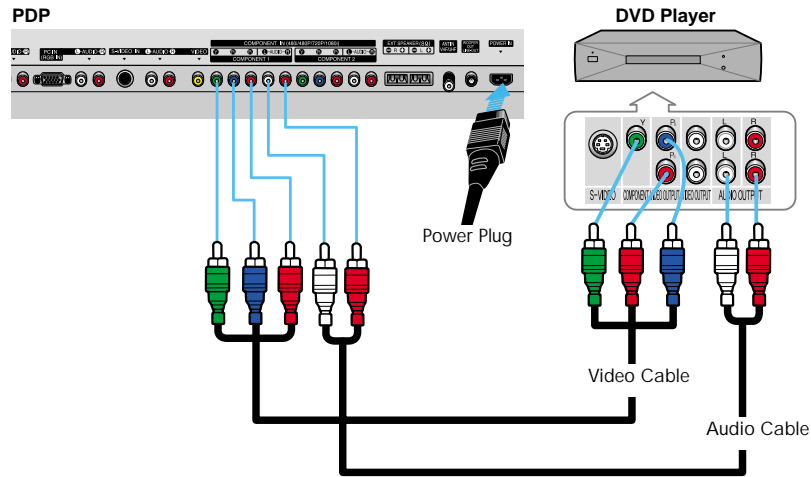
Viewing Tapes

1. Turn on your PDP, and press the SOURCE button on the remote control.
2. Move the joystick up or down to select the "Video", then press the joystick to enter.
3. Turn on your camcorder and set it to Video Mode. (For details, refer to your camcorder owner's instructions.)
4. Set the IN/OUT switch on your camcorder to OUT.
5. Insert the tape into the camcorder and press the Play button.



Connecting a DVD Player (480i, 480p)

Playing DVD



How to Connect

- 1 Connect a Video Cable between the Y, Pb, Pr (COMPONENT1, 2) input jacks on the PDP and Y/P_b/P_r output jacks on the DVD players.
- 2 Connect a Audio Cable between the AUDIO L/R(COMPONENT1, 2) input jacks on the PDP and the AUDIO OUT jacks on the DVD player.

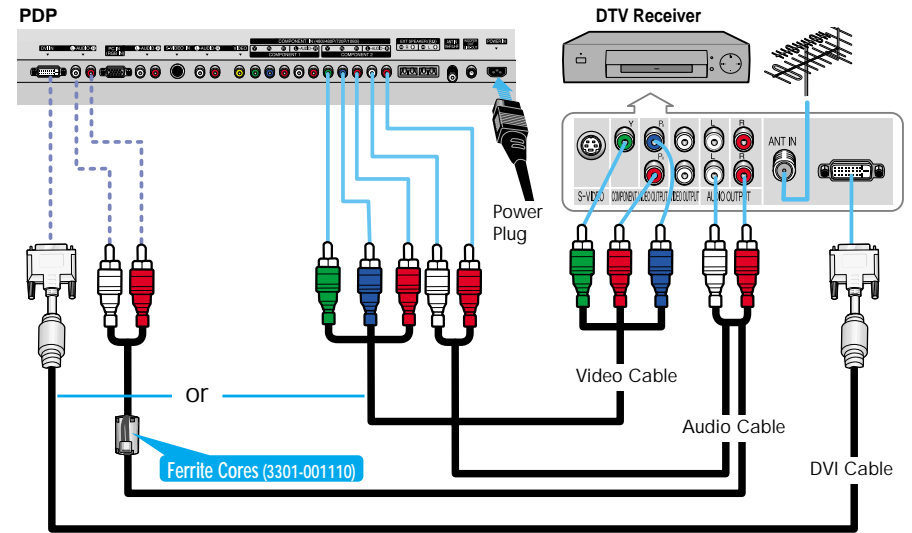
To Play DVD:

1. Turn on your PDP, and press the SOURCE button on the remote control.
2. Move the joystick up or down to select the "COMPONENT1" or "COMPONENT2", then press the joystick to enter.
3. Turn on your DVD player, insert a DVD disc and press the Play button.
 - For an explanation of Component video, see your DVD owner's instructions.



Connecting a DTV Receiver (480p, 720p, 1080i)

Watching DTV



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

How to Connect

- 1 Connect the cable or antenna to the antenna input jack on the DTV.
- 2 Connect a Video cable between the Y, Pb, Pr (COMPONENT 1, 2) or DVI jack on the PDP and the Y, P_b, P_r (VIDEO OUTPUT JACKS) on the DTV receiver.
- 3 Connect an Audio cable between the COMPONENT 1, 2 (L/R AUDIO) or DVI jacks on the PDP and the AUDIO OUTPUT jacks on the DTV.

To Watch DTV:

1. Turn on your PDP, and press the SOURCE button on the remote control.
2. Move the joystick up or down to select the "COMPONENT1", "COMPONENT2" or "DVI", then press the joystick to enter.
3. Turn on your DTV receiver.
 - For an explanation of Component video, see your DTV receiver owner's instructions.

SAMSUNG

P L A S M A D I S P L A Y P A N E L

Operation



Turning the PDP On and Off	30
Memorizing the Channels.....	32
Setting Up Your Remote Control	36



Turning the PDP On and Off

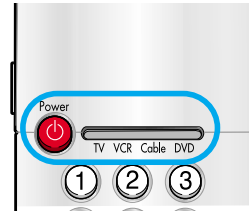
Turning the PDP On and Off

Press the Power button on the remote control. The PDP will be turned on and you will be ready to use its features.

You can also use the Power button on the front of the PDP.

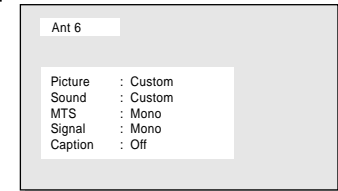
Notes:

- 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 VCR Cable DVD).



Displaying Status Information

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

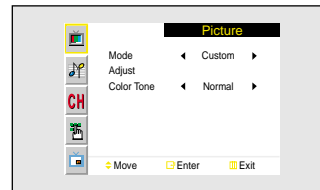


Viewing the Menus and Displays

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.



- 2 Use the joystick (up, down) button to move items in the menu. Use the joystick (left, right) button to display, change, or use the selected items. Use the joystick (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 Menu button on your remote control to exit the menu.





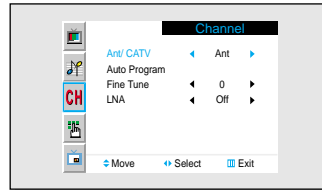
Memorizing the Channels

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 v 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).

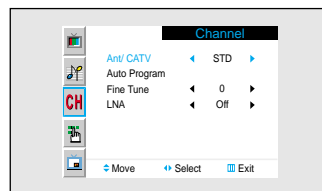
Selecting the Video Signal-source

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. Move the joystick up or down to select "Channel", then press the joystick to enter.



- 2 Move the joystick left or right to select "Ant", "STD", "HRC" or "IRC".
 - If you are connected to an antenna, leave "Ant" displayed. If you connected cable, Move the joystick left or right 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.

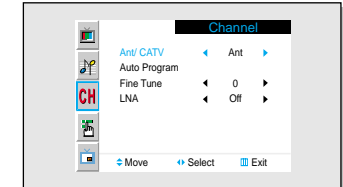
Note

- 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).

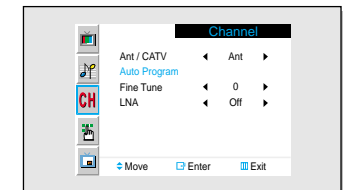
Storing Channels in Memory (Automatic Method)

- 1 First, select the correct signal source (Ant, STD, HRC, IRC). See steps on previous page. Press the Menu button. Move the joystick up or down to select the "Channel", then press the joystick to enter.

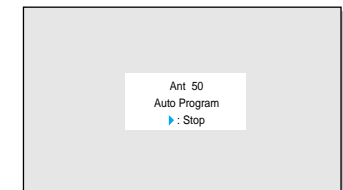
Quick way to access the Automatic Channel Setting : Just press the "Auto Program" button on the remote control.



- 2 Move the joystick up or down to select "Auto Program", then press the joystick to enter.



- 3 The PDP will begin memorizing all of the available channels. After all the available channels are stored, the Auto program menu reappears. Move the joystick right to exit.



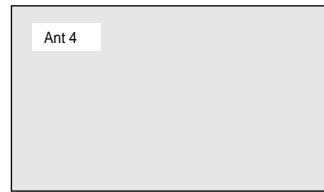
Note

- The PDP automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes.

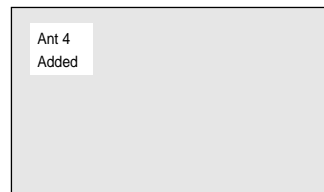
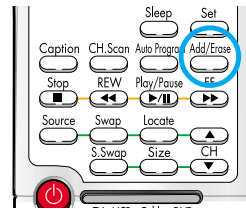
Adding and Erasing Channels (Manual Method)

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

Ex) Channel "4"



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



Note

- You can view any channel (including an erased channel) by using the number buttons on the remote control.

Changing Channels

Using the Channel Buttons

Press the CH \wedge or CH \vee buttons to change channels.

When you press the CH \wedge or CH \vee 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.

To View Memorized Channel

Press the CH.Scan button or the Channel button. Only the memorized channels are chosen.

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 either the VOL + or VOL - button.





Setting Up Your Remote Control

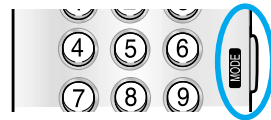


This PDP's remote control can operate almost any VCR, cable box, or DVD. After it has been set up properly, your remote control can operate in four different modes :TV, VCR, Cable, or DVD. Pressing the corresponding button on the remote control allows you to switch between these modes, and control whichever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

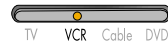
Note: The remote control may not be compatible with all DVD Players, VCRs, and Cable boxes.

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

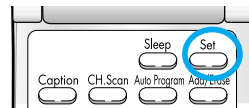
1 Turn off your VCR. (or Cable box, DVD player.)



2 Press the MODE button and make sure that the VCR (or Cable box, DVD) LED is illuminated.



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) code listed on page 37 of this manual for your brand of VCR (or Cable box, DVD player). 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 Cable box, DVD player) should turn on if your remote is set up correctly. If your VCR (or Cable box, DVD player) does not turn on after set up, repeat steps 2, 3, and 4, but try one of the other codes listed for your brand of VCR (or Cable box, DVD player).
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 "Cable box" or "DVD" mode, the VCR control buttons (Stop, REW, Play/Pause, FF) still operate your VCR.

Remote Control Codes

VCR Codes

Admiral	006, 079	KLH	073	RCA	000, 005, 007, 008, 028, 035, 037, 054, 069
Aiwa	015	LG	009, 014, 046, 060	Samsung	007, 013, 022, 032, 042, 077
Akai	017, 022, 023, 027, 030	Lloyd	015	Sansui	016
Audio Dynamics	014, 016	Logik	031	Sanyo	002, 012
Bell & Howell	002	LXI	015	Scott	013, 041, 049, 068
Broksonic	010	Magnavox	008, 029, 053, 056	Sears	002, 005, 009, 012, 018, 019, 035, 043, 048
Candle	007, 009, 013, 045, 046, 052	Marantz	002, 008, 014, 016, 029, 030, 046, 061	Sharp	006, 027, 039, 045
Cannon	008, 053	Marta	009	Shintom	017, 026, 031, 055
Citizen	007, 009, 013, 045, 046, 052	MEI	008	Signature	015
Colortyme	014	Memorex	008, 009, 012, 015	Sony	017, 026, 038
Craig	007, 012	MGA	027	Sylvania	008, 015, 029, 053, 056
Curtis-Mathes	000, 007, 008, 014, 015, 046, 053, 064, 067	Midland	032	Symphonic	015
Daewoo	013, 045, 076	Minota	005, 035	Tandy	002, 015
DBX	014, 016	Mitsubishi	005, 027, 035, 040	Tashiko	009
Dimensia	000	Montgomery ward	006	Tatung	030
Dynatech	015	MTC	007, 015	Teac	015, 030, 069
Electrohome	027	Multitech	007, 015, 031, 032	Technics	008
Emerson	008, 009, 010, 013, 015, 020, 023, 027, 034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070	NEC	002, 014, 016, 030, 046, 061, 064	Ternika	008, 009, 015, 021
Fisher	002, 012, 018, 019, 043, 048, 058	Optimus	006	TMK	067
Funai	015	Panasonic	008, 053, 075, 077	Toshiba	005, 013, 019, 048, 049
GE	000, 007, 008, 032, 053	Pentax	005, 035	Totevision	007, 009
Go Video	007	Pentax Reserch+	046	Unitech	007
Harman Kardon	014	Philco	008, 029, 053, 056	Vector Research	014, 016
Hitachi	005, 015, 035, 036	Philips	008, 029	Victor	016
Instant Replay	008	Pioneer	005, 016, 033, 050	Video Concepts	014, 016
JC Penney	002, 005, 007, 008, 014, 016, 030, 035, 051, 053	Portland	044, 045, 052	Videosonic	007
JCL	008, 002, 014, 016, 030, 046	ProScan	000	Wards	005, 006, 007, 008, 009
JVC	002, 014, 088, 089	Quartz	002	Yamaha	002, 014, 016, 030, 046
Kenwood	002, 014, 016, 030, 046	Quasar	008, 053	Zenith	011, 017, 026, 079
		Radio Shack/Realist	002, 006, 008, 009, 012, 015, 019, 027, 045, 053		

Cable Box Codes

Anvision	007, 008	NSC	009	Signature	046
Cablestar	007, 008	Oak	016, 038	Sprucer	027
Eagle	007, 008	Osk Sigma	016	Starcom	046
Eastern Int.	002	Panasonic	003, 027, 039, 061, 073, 074	Stargate 2000	058
General Instrument	046	Philips	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041	Sylvania	011, 059
GI	004, 005, 015, 023, 024, 025, 030, 036, 067, 068, 069	Pioneer	018, 020, 044, 074, 077	Texscan	011, 059
Hamlin	003, 012, 013, 034, 048	Randtek	007, 008	Tocom	017, 021, 049, 050, 055, 073
Hitachi	037, 043, 046	RCA	000, 027, 066	Unika	031, 032, 041
Jerroid	004, 005, 015, 023, 024, 025, 030, 036, 046, 062, 065	Regal	003, 012, 013	Universal	051, 052
Macom	037, 043	Regency	002, 033	Viewster	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041
Magnavox	007, 008, 019, 021, 026, 028, 029, 032, 033, 040, 041	SA	070, 071, 072	Warner Amex	044
		Samsung	044, 003, 022, 063, 064	Zenith	014, 042, 057, 061, 075, 076

DVD Codes

Philips	001
Proscan	002
RCA	002
Toshiba	003
Panasonic	004
Sony	008
Samsung	000

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P L A S M A D I S P L A Y P A N E L

Picture Control



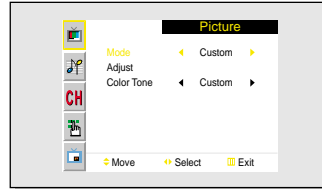
Customizing the Picture	40
Using Automatic Picture Settings	41
Selecting the Color Tone	42
Viewing the Picture-in-Picture	43
Changing the Screen Size	49
Freezing the Picture	50



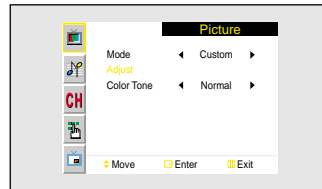
Customizing the Picture

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

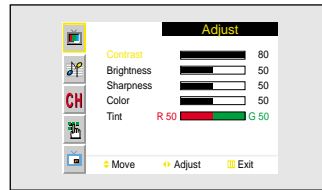
- 1 Press the Menu button, then press the joystick to enter.



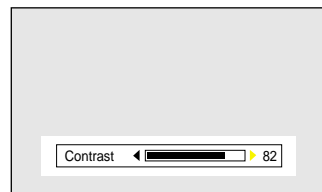
- 2 Move the joystick up or down to select "Adjust", then press the joystick to enter. You will also see the items "Contrast", "Brightness", "Sharpness", "Color" and "Tint".



- 3 Move the joystick up or down to select the item you wish to change.



- 4 Move the joystick left or right to change the value of the item.



- 5 Press the Menu button to exit.

Note

- In the PC/DVI mode, you can't adjust the Sharpness, Color and Tint.
- The Tint doesn't operate in Component(480p, 720p, 1080i) mode.

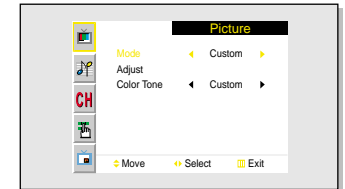


Using Automatic Picture Settings

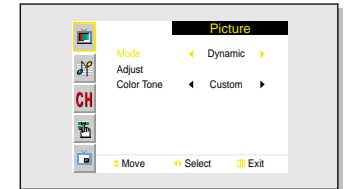
Your PDP has automatic picture settings that allow you to adjust the video display easily.

- 1 Press the Menu button, then press the joystick to enter.

Quick way to access the picture setting: Just press the "P.Mode" button on the remote control.



- 2 Move the joystick left or right to select "Custom", "Dynamic", "Standard" or "Movie" picture setting. You can select "High", "Middle", "Low" or "Custom" in PC/DVI mode.

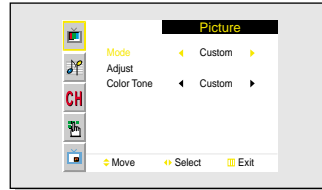


- 3 Press the Menu button to exit.



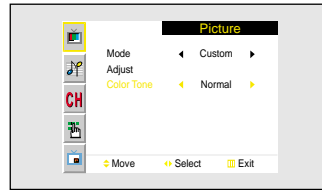
Selecting the Color Tone

1 Press the Menu button, then press the joystick to enter.



2 Move the joystick up or down to select "Color Tone", then move the joystick left or right 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.



3 Press the Menu button to exit.

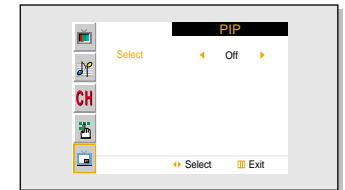


Viewing the Picture-in-Picture

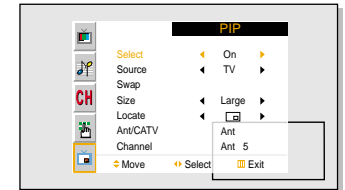
Selecting the PIP Screen

1 Press the Menu button. Move the joystick up or down to select "PIP", then press the joystick to enter.

Quick way to access the PIP: Just press the "PIP" button on the remote control.



2 Move the joystick left or right to select "On". The PIP image will appear in the corner of the screen.



3 Press the Menu button to exit.

PIP Settings

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

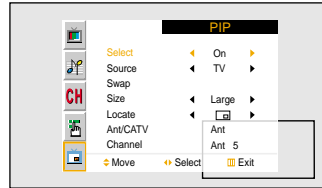
Main screen \ PIP screen	TV	Video	S-Video	Component 1	Component 2	PC	DVI
TV	O	O	O	O	O	O	O
Video	O	X	O	O	O	O	O
S-Video	O	O	X	O	O	O	O
Component 1	O	O	O	X	X	X	X
Component 2	O	O	O	X	X	X	X
PC	O	O	O	X	X	X	X
DVI	O	O	O	X	X	X	X

Selecting an External Signal

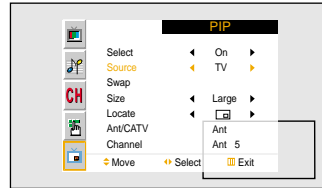
You can use PIP to view a signal from an external source, such as a VCR.

- 1 Press the Menu button. Move the joystick up or down to select "PIP", then press the joystick to enter.

! Quick way to access the PIP source: Just press "Source" button in the cover on the remote control.

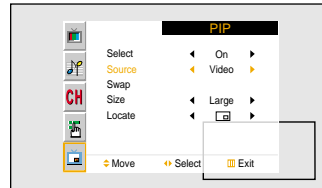


- 2 Move the joystick up or down to select "Source".



- 3 Move the joystick left or right 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 input jacks.



- 4 Press the Menu button to exit.

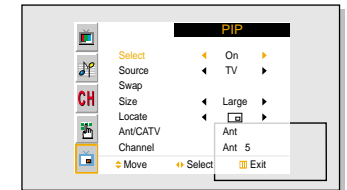
Note

- 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.

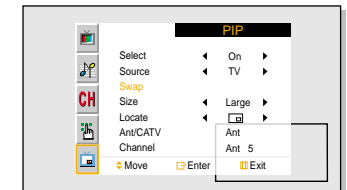
Swapping the Contents of the PIP Image and Main Image

- 1 Press the Menu button. Move the joystick up or down to select "PIP", then press the joystick to enter.

! Quick way to access swapping: Just press the "Swap" button on the remote control.



- 2 Move the joystick up or down to select "Swap", then press the joystick to enter.
 - The image in the PIP window will appear on the main screen, and vice versa.

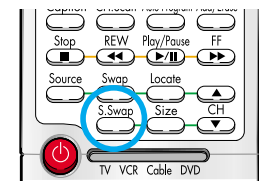


- 3 Press the Menu button to exit.

Selecting the Sound Source

S.Swap

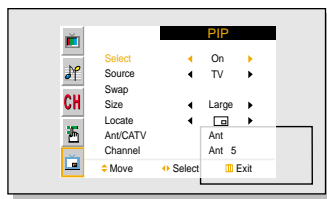
Press the S.Swap button to switch between the Main or Sub (PIP) audio source.



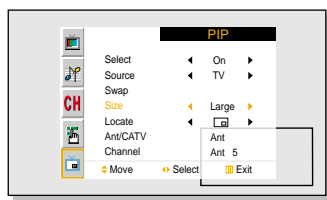
Changing the Size of the PIP Window

1 Press the Menu button. Move the joystick up or down to select "PIP", then press the joystick to enter.

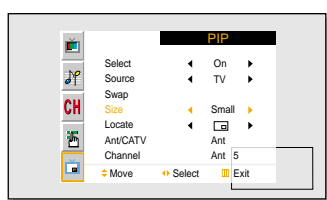
Quick way to access the PIP size: Just press the "Size" button in the cover on the remote control.



2 Move the joystick up or down to select "Size".



3 Move the joystick left or right to select "Small", "Double" or "Large".

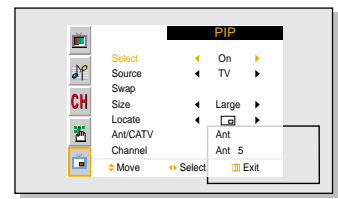


4 Press the Menu button to exit.

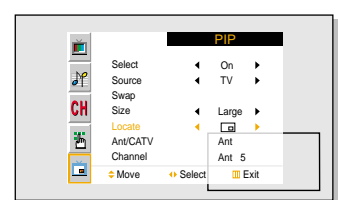
Changing the Location of the PIP Image

1 Press the Menu button. Move the joystick up or down to select "PIP", then press the joystick to enter.

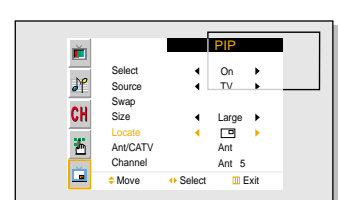
Quick way to access the PIP location: Just press the "Locate" button on the remote control.



2 Move the joystick up or down to select "Locate".



3 Move the joystick left or right to move the PIP screen where you want.



4 Press the Menu button to exit.

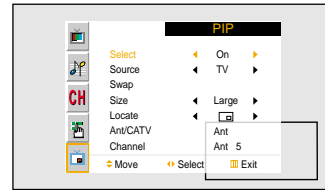


Changing the Screen Size

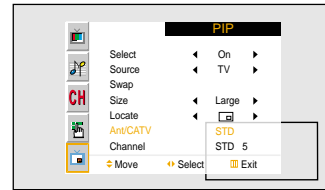
Changing the PIP Channel

- 1 Press the Menu button. Move the joystick up or down to select "PIP", then press the joystick to enter.

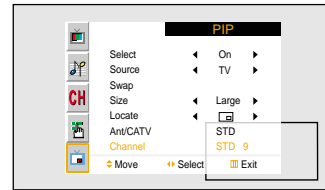
Quick way to change the PIP channel: Just press the "CH▲,▼" buttons under the cover of the remote control.



- 2 Move the joystick up or down to select "Ant/CATV". Move the joystick left or right to select "Ant", "STD", "HRD" or "IRC".



- 3 Move the joystick up or down to select "Channel". Move the joystick left or right to change the channel that appears in the PIP window. You can also press PIP CH▲, ▼ buttons on the remote control.



- 4 Press the Menu button to exit.

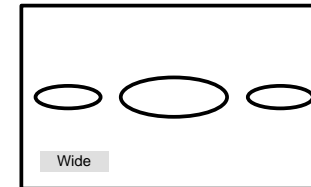
When you press the Aspect button on the remote control, the PDP's screen mode should appear in sequence. The screen displays in this order: Wide, Panorama, Zoom1, Zoom2, Normal.

Note

- If you watch a still image or the Normal (4:3) mode for a long time (over 2 hours) on image may be burned on to the screen, view the monitor in Wide or Panorama mode as much as possible.

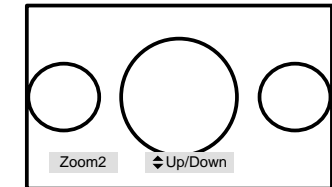
Wide

Sets the picture to 16:9 wide mode.



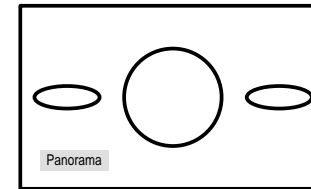
Zoom2

The screen size when the Zoom1 screen is vertically enlarged.



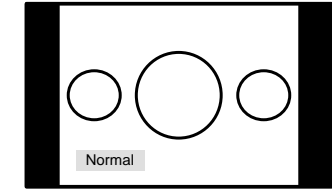
Panorama

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



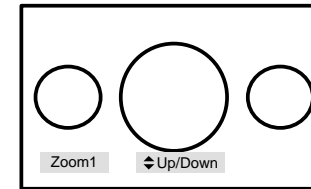
Normal (4:3)

Sets the picture to 4:3 normal mode.



Zoom1

The screen size when Wide screen is vertically enlarged



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 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.