



SAMSUNG

PLASMA DISPLAY

Owner's Instructions
HPN4235



ELECTRONICS

SERVICE DIVISION
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Mount Arlington, NJ 07856
TEL : 1-800-SAMSUNG (1-800-726-7864)
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 la 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.

Plasma Display 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

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
 (1) This device may not cause harmful interference, and
 (2) This device must accept any interference received, including interference that may cause undesired operation.
 This television receiver provides display of television closed captioning in accordance with §15.119 of the FCC rules.

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 (landem 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.

*This Class B digital apparatus complies with Canadian ICES-003.
 Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.*

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.

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SAMSUNG

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

General Information

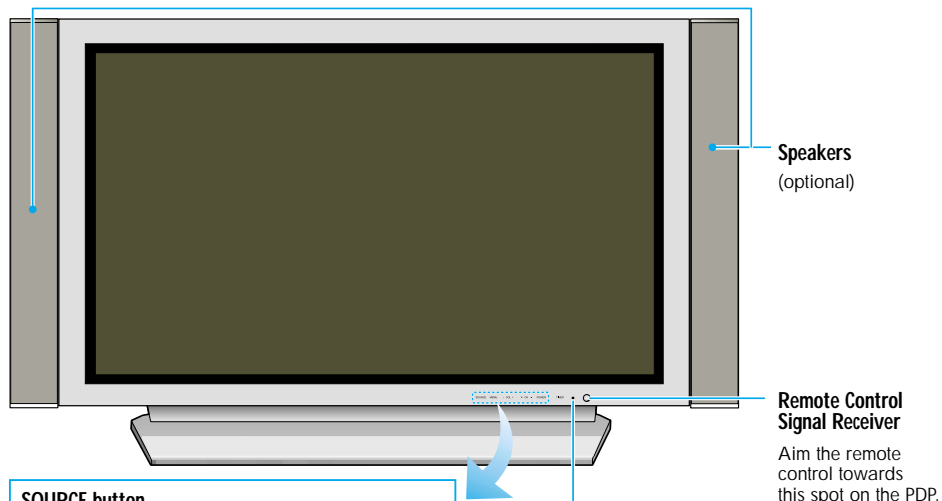


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Your New Plasma Display Panel

Front Panel



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 button

Press to turn the PDP on and off.

Power Indicator

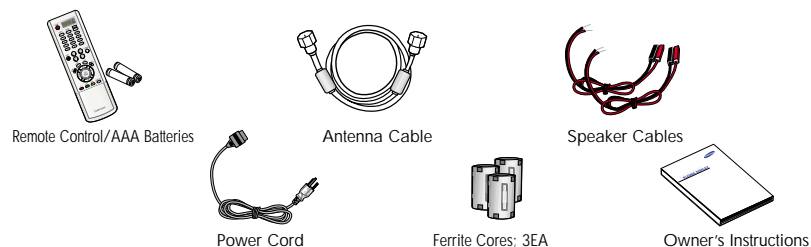
Power Off : LED Red

Power On (Timer On) : LED Green

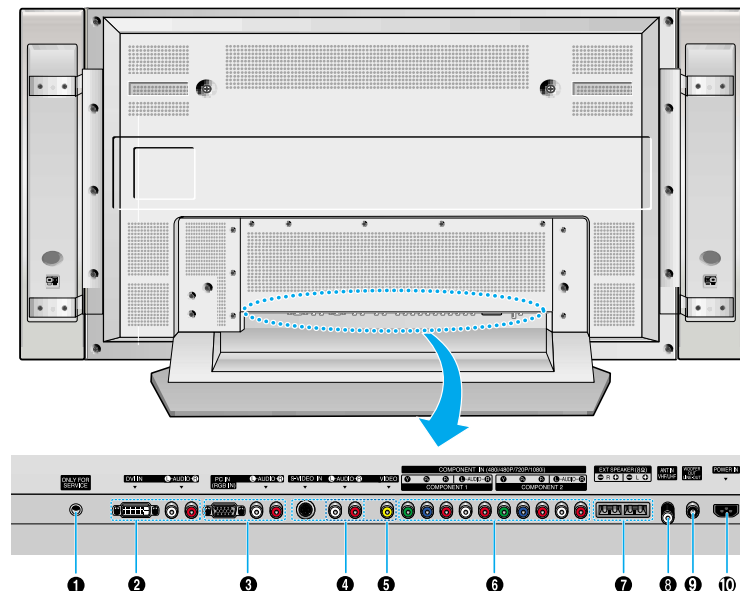
Power On (Timer Off) : LED Off

Checking Accessories

Once you have unpacked your PDP, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.



Rear Panel



1 Service jack

For service only.

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 S-Video/audio signals from external sources such as VCRs or DVD players.

5 Video Input jacks

Connect video/audio signals from external sources such as VCRs or DVD players.

6 Component Video/Audio Input jacks

(Y/Pb/Pr/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

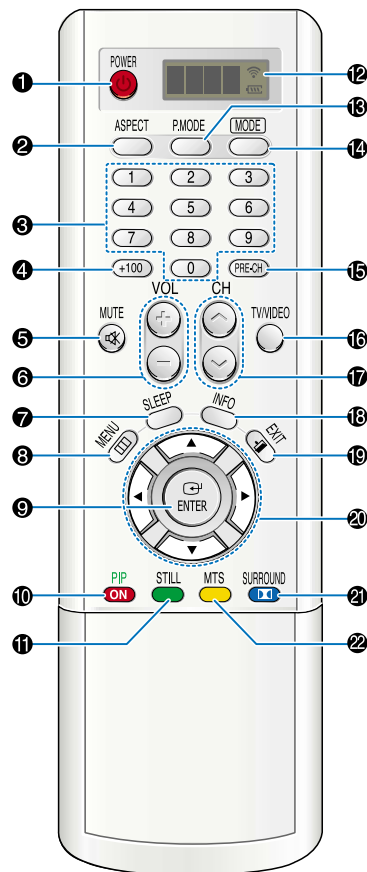
Connect the supplied power cord.



Remote Control Buttons

Remote Control

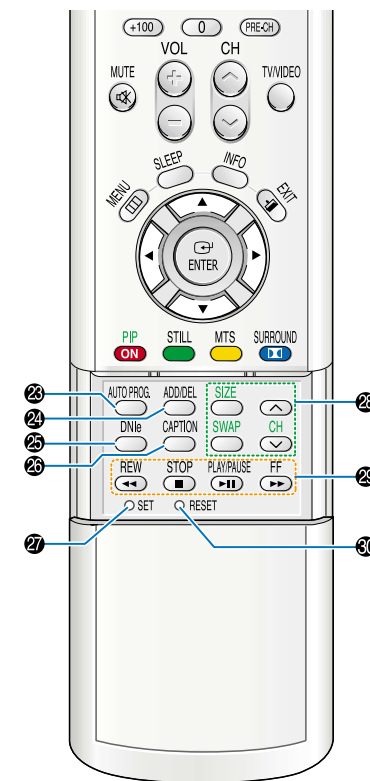
- 1 POWER button**
Turns the PDP on and off.
- 2 ASPECT button**
Press to change the screen size.
- 3 Number buttons**
- 4 +100 button**
Press to select channels over 100. For example, to select channel 121, press "+100", then press "2" and "1."
- 5 MUTE button**
Press to mute the PDP sound.
- 6 VOL (Volume) buttons**
Use it to adjust volume.
- 7 SLEEP button**
Press to select a preset time interval for automatic shutoff.
- 8 MENU button**
Displays the main on-screen menu.
- 9 ENTER button**
Confirms a selection.
- 10 PIP button**
Activates picture in picture.
- 11 STILL button**
Press to pause the current screen.
- 12 LED Display**
When you press a button, ' ' appears along with selected mode (TV, VCR, CATV, DVD or STB) and remaining batteries on LED.
- 13 P.MODE button**
Adjust the PDP picture by selecting one of the preset factory settings (or select your personal, customized picture settings.)
- 14 MODE button**
Selects a target device to be controlled by the Samsung remote control (ie., VCR, Cable, DVD players or STB). If you change modes, the new mode is momentarily displayed on LED.
- 15 PRE-CH button**
Tunes to the previous channel.
- 16 TV/VIDEO button**
Press to display all of the available video sources (ie., Video, S-Video, Component1, Component2, PC, DVI).
- 17 CH (Channel) buttons**
Use it to switch channels.
- 18 INFO button**
Press to display information on the PDP screen.
- 19 EXIT button**
Press to exit the menu.
- 20 Up/Down Left/Right buttons**
Control the cursor in the menu.



- 21 SURROUND button**
Press the hear the Dolby surround effect.
- 22 MTS button**
Press to choose stereo, mono or Separate Audio Program (SAP broadcast).
- 23 AUTO PROG. button**
The TV automatically cycles through all of the available channels and stores them in memory.
- 24 ADD/DEL button**
Press to add or delete channels in the TV's memory.
- 25 DNIe button**
Activates DNIe (Digital Natural Image engine).
- 26 CAPTION button**
Controls the caption decoder.
- 27 SET button**
Used during set up of this Samsung remote control, so that it will work compatibly with other devices (VCR, cable box, DVD)
- 28 PIP control buttons**
SWAP : Exchanges the video signal that is currently displayed on the main screen with the signal in the PIP window.

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).
- 29 VCR, DVD control buttons**
Controls VCR tape or DVD disc functions: Stop, Rewind, Play/Pause, Fast Forward.
- 30 RESET button**
If your remote control is not functioning properly, take out the batteries and press the reset button for about 2~3 seconds. Re-insert the batteries and try using the remote control again.



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 PDP's remote control receiver.



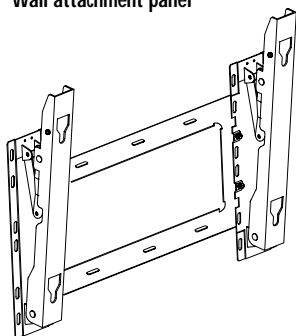
Wall Installation Instructions

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)

Wall attachment panel



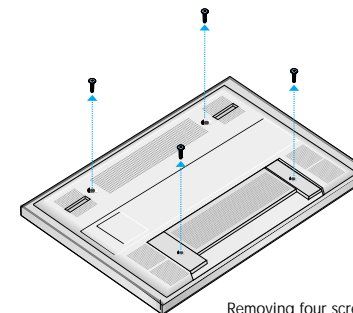
Insulation holders ; 4 EA



Screws ; 4 EA

Fixing the PDP panel to the wall attachment panel bracket

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

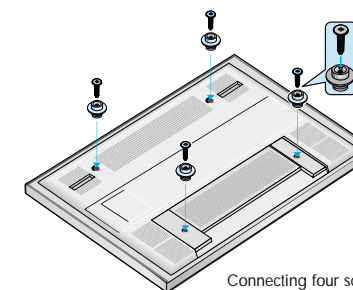


Removing four screws

- 2 Connect Insulation holders to screws. (see the illustration below)

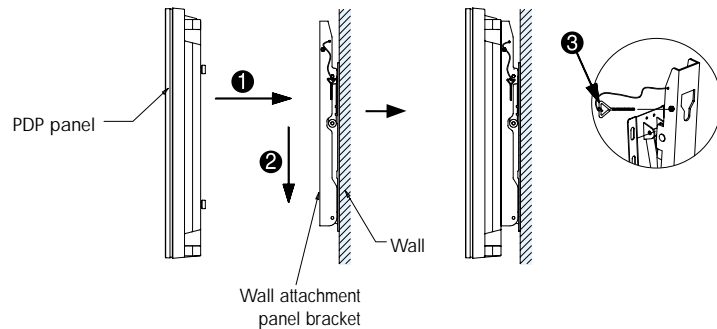


- 3 Tighten the screws connected to the Insulation holders on the rear of the PDP panel.



Connecting four screws

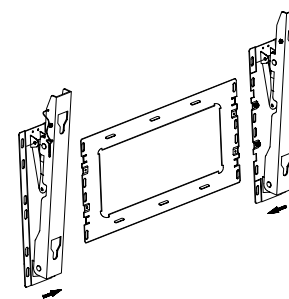
- 4 Put the 4 pegs on the PDP in the grooves of the wall mount bracket and pull down on the PDP (1) to secure it to the wall mount bracket. (2) Tighten the screws as shown (3) so that the PDP cannot be separated from wall mount bracket.



How to Adjust Mounting Angle

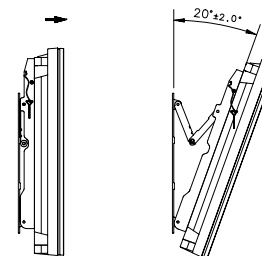
Notice : Please secure the mounting bracket on the wall surface after setting its angle at 0°

Factory default



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

Changing the angle



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



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 Insulation holders 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.

Connections



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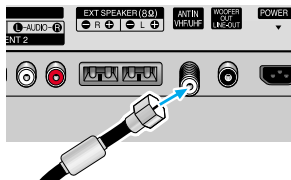


Connecting VHF and UHF Antennas

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, an accessory included in the product package.



Plasma Display

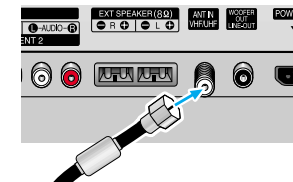


Connecting Cable TV

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.

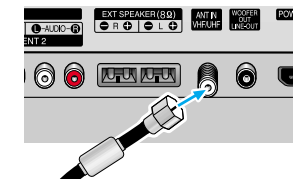
Cable without a Cable Box

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





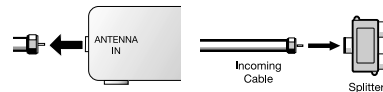
Connecting Speakers

External speakers are sold separately. Check with your dealer.

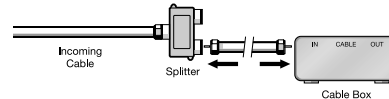
Cable with a Cable Box that Descrambles Some (But Not All) Channels

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

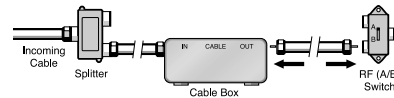
- 1 Find and disconnect the cable that is connected to the ANTENNA IN terminal of your cable box. This terminal might be labeled "ANT IN", "VHF IN", or simply, "IN". Connect this cable to a two-way splitter.



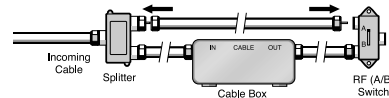
- 2 Connect a coaxial cable between an OUT-PUT terminal of the splitter and the IN terminal of the cable box.



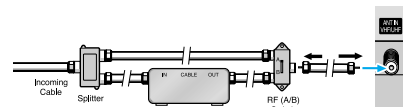
- 3 Connect a coaxial cable between the ANTENNA OUT terminal of the cable box and the B-IN terminal of the A/B switch.



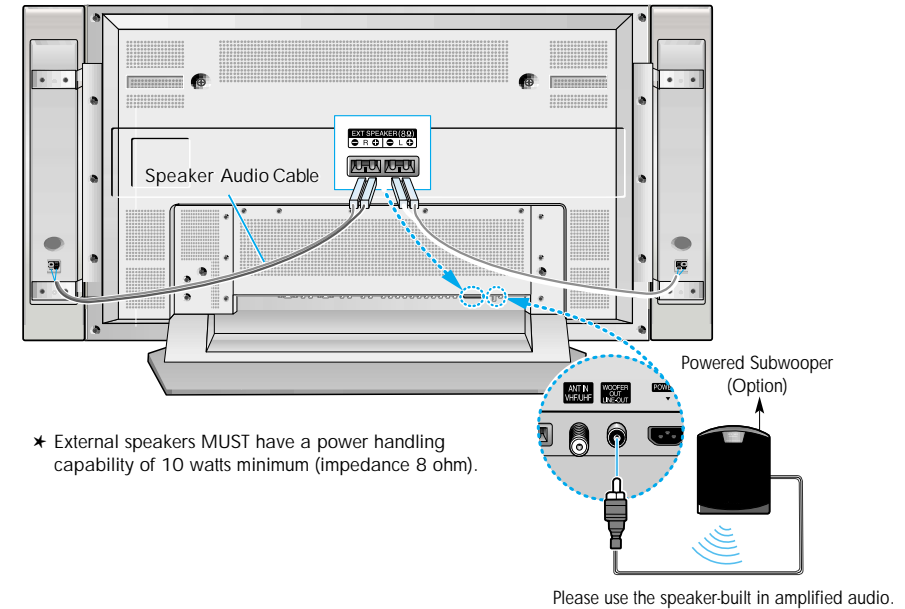
- 4 Connect a coaxial cable between the ANTENNA OUT terminal of the cable box and the B-IN terminal of the A/B switch.



- 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).

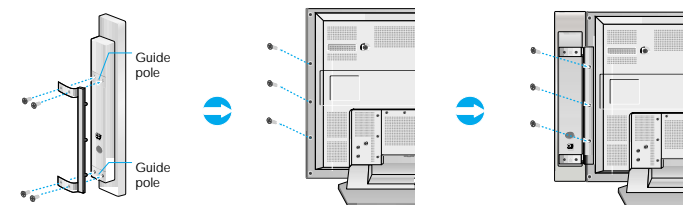
Please use the speaker-built in amplified audio.

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

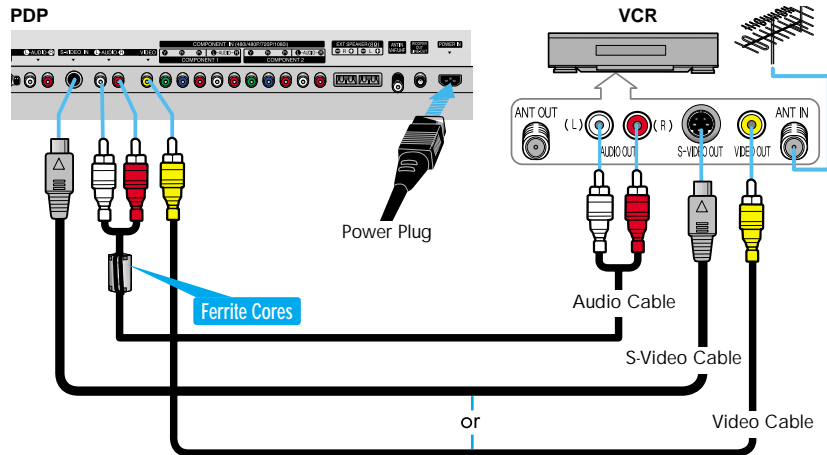
- 1 Fix the bracket onto the guide pole located on the rear of speaker and fasten the screws.
- 2 After removing the three screws on the PDP, clamp the speaker and the PDP together and fasten the screws.





Connecting a VCR

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



How to Connect

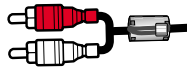
Connect the Video/Audio cables between the AUDIO(L/R)/VIDEO jacks on the PDP and AUDIO/VIDEO OUT jacks on the VCR. (Note: For better video, you can use an S-Video cable.)

Videotape Playback:

1. Turn on your PDP, and press the TV/VIDEO button on the remote control.
2. Press the UP or DOWN button to select "Video" or "S-Video", then press the ENTER button.
3. Turn on your VCR, insert a videotape and press the play button.

Ferrite Cores

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

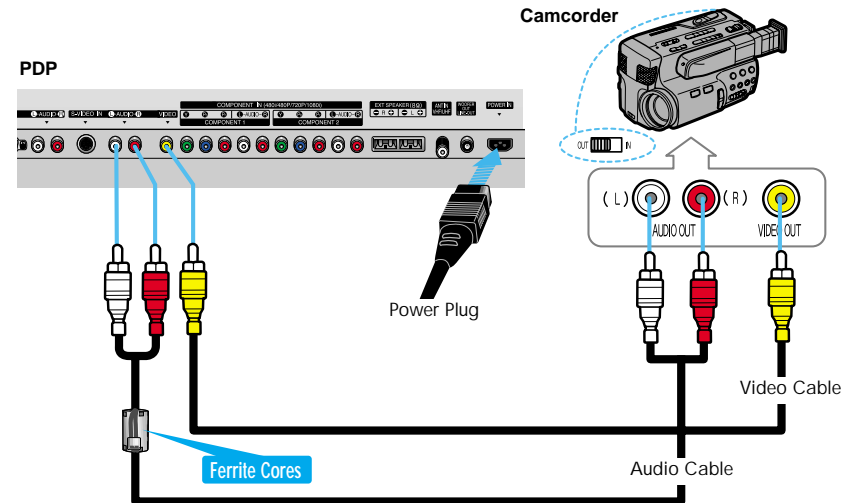


When you connect the audio cable (PC, DVI, S-Video, Video, Component1, Component2) to the connectors, bind the ferrite core around the cable to secure it.



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

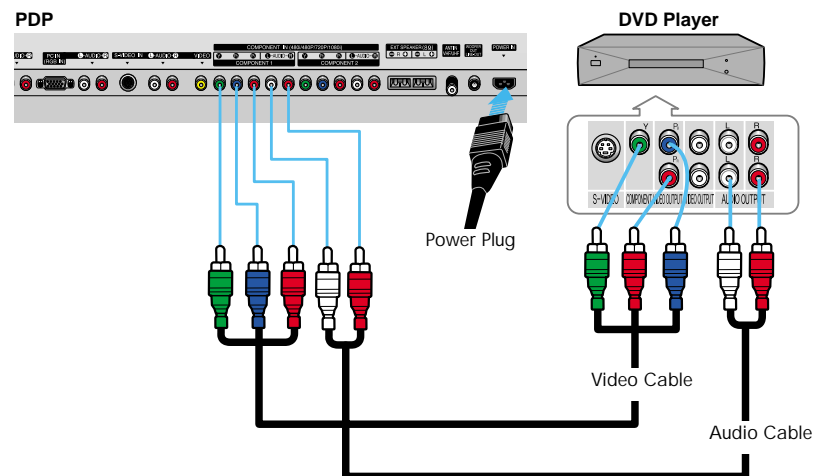
1. Turn on your PDP, and press the TV/VIDEO button on the remote control.
2. Press the UP or DOWN button to select the "Video", then press the ENTER button.
3. Turn on your camcorder and set it to Video Mode. (For details, refer to your camcorder owner's instructions.)
4. Set the IN/OUT switch on your camcorder to OUT.
5. Insert the tape into the camcorder and press the Play button.



Connecting a DVD Player (480i, 480p)

This PDP displays the optimum picture in 720p mode.

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:

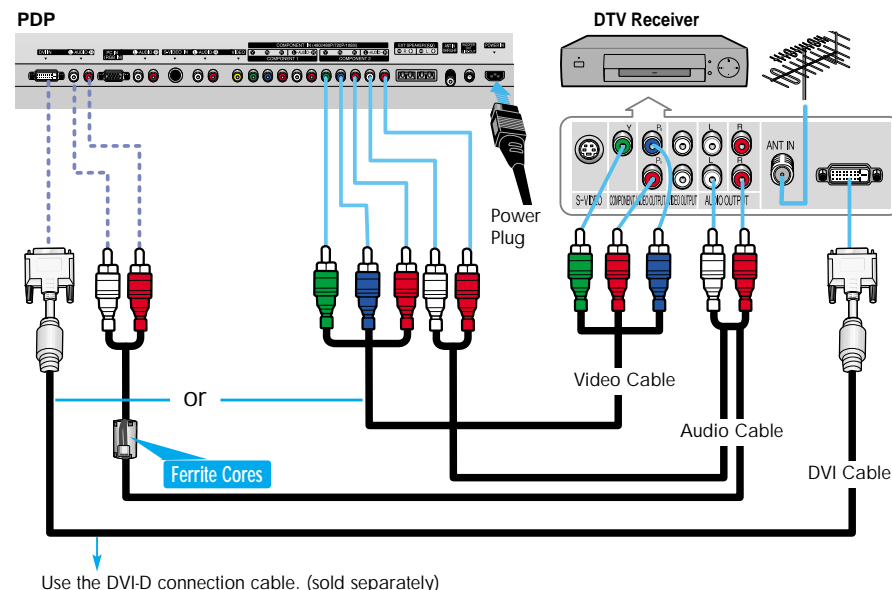
1. Turn on your PDP, and press the TV/VIDEO button on the remote control.
2. Press the UP or DOWN button to select "COMPONENT1" or "COMPONENT2", then press the ENTER button.
3. Turn on your DVD player, insert a DVD disc and press the Play button.
 - For an explanation of Component video, see your DVD owner's instructions.



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

This PDP displays the optimum picture in 720p mode.

Watching DTV



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 TV/VIDEO button on the remote control.
2. Press the UP or DOWN button to select "COMPONENT1", "COMPONENT2" or "DVI", then press the ENTER button.
3. Turn on your DTV receiver.
 - For an explanation of Component video, see your DTV receiver owner's instructions.

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Operation



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