

Regulatory and Safety Compliance Guide



Warning! Important Safety Instructions

(Please read the appropriate section that corresponds to the marking on your Samsung product before attempting to install the product.)

CAUTION

RISK OF ELECTRIC SHOCK
DO NOT OPEN

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



This symbol indicated 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.

- ☛ The slots and openings in the cabinet and in the back or bottom are provided for necessary ventilation. To ensure reliable operation of this apparatus, and to protect it from overheating, these slots and openings must never be blocked or covered.
 - Do not cover the slots and openings with a cloth or other materials.
 - Do not block the slots and openings by placing this apparatus on a bed, sofa, rug or other similar surface.
 - Do not place this apparatus in a confined space, such as a bookcase, or built-in cabinet, unless proper ventilations is provided.
- ☛ Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- ☛ Do not place the sources of heat on this apparatus, such as a candle, ash tray, incense or other similar material.
- ☛ Do not place a water containing vessel on this apparatus, as this can result in a risk of fire or electric shock.
- ☛ Do not expose this apparatus to rain or place it near water (near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool etc.). If this apparatus accidentally gets wet, unplug it and contact an authorized dealer immediately. You can clean this apparatus with damp cloth when necessary, but be sure to unplug the apparatus first.
- ☛ Do not expose this apparatus set to extreme temperature conditions or to extreme humidity conditions.
- ☛ This apparatus use batteries. In your community there might be regulations that require you to dispose these batteries properly under environmental considerations. Please contact your local authorities for disposal or recycling information.
- ☛ To cut off the power source, unplug this apparatus from the wall outlet.
- ☛ Do not overload wall outlets, extension cords or convenience receptacles beyond their capacity, since this can result in fire or electric shock.
- ☛ Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- ☛ To protect this apparatus from a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the set due to lightning and power line surges.
- ☛ Before connecting the AC power cord to the DC adapter outlet, make sure the voltage designation of the DC adapter corresponds the local electrical supply.
- ☛ Never insert anything metallic into this apparatus openings. Doing so may create the danger of electric shock.
- ☛ To avoid electric shock, never touch the inside of this apparatus. Only a qualified technician should open this apparatus's case.
- ☛ Be sure to hold the plug, not the cord, when disconnecting this apparatus from an electric socket.
- ☛ Locate this apparatus near an easily accessible AC outlet.
- ☛ If this apparatus does not operate normally - in particular, if there are any unusual sounds or smells coming from it - unplug it immediately and contact an authorized dealer or service center.
- ☛ Unplug this apparatus from the AC outlet before any service.

Regulatory Compliance Statements

Your Samsung product is marked to indicate its compliance class:

- Federal Communications Commission (FCC) - USA
- Industry Canada Equipment Standard for Digital Equipment (ICES-003) - Canada
- Voluntary Control Council for Interference (VCCI) - Japan
- Bureau of Standards Metrology and Inspection (BSMI) - Taiwan
- Ministry of Information and Communication (MIC) - Republic of Korea
- Italian Post Ministry (Homologation) - Italy

FCC Information

FCC Class A Notice

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.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Class B Notice

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.

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 reception, 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 with 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.

This television receiver provides display of television closed captioning in accordance with Section 15.119 of the FCC rules.(TV broadcast receivers with picture screens 13 inches or larger in diameter models only)

ICES-003 Class A Notice - Avis NMB-003, Classe A

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

ICES-003 Class B Notice - Avis NMB-003, Classe B

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.

VCCI Class A Notice

この装置は「情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスA情報技術装置です。この装置を家庭環境で使用すると電波妨害を引き起こすことがあります。この場合には使用者が適切な対策を講ずるよう要求されることがあります。」

VCCI Class B Notice

この装置は「情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスB情報技術装置です。この装置は「家庭環境で使用することを目的としていますが、この装置がラジオやテレビジョン受信機に近接して使用されると「受信障害を引き起こすことがあります。」取扱説明書に従って正しい取り扱いをして下さい。」

BSMI Class A Notice

The following statement is applicable to products shipped to Taiwan and marked as Class A on the product compliance label.

警告使用者:

這是甲類資訊類產品，在居住環境中使用時，可能會造成射頻干擾，在這種情況下，使用者會被要求採取某些適當的對策。」

European Notice(Europe Only)

Products with the CE marking comply with the EMC Directive(89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive(73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022: Radio Frequency Interference
- EN55024: Electromagnetic Immunity of Information Technology Equipment
- EN61000-3-2: Power Line Harmonics
- EN61000-3-3: Voltage Fluctuations
- EN55013: Radio disturbance characteristics of broadcast receivers and associated equipments
- EN55020: Electromagnetic immunity of broadcast receivers and associated equipments

European Class A Warning

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.(Class A product only)

정보통신기기 A급 기기(MIC Class A Notice)

이 기기는 업무용으로 전자파적합등록을 한 기기이오니 판매자 또는 사용자는 이 점을 주의하시기 바라며 만약 잘못 판매 또는 구입하였을 때에는 가정용으로 교환하시기 바랍니다.

정보통신기기 B급 기기(MIC Class B Notice)

이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Italian Homologation Notice

Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548
ed in particolare a quanto specificato nell Art.2, comma 1.

Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548
Art.2, comma 1 ed al D.M.26.03.92 Art.1

- For products produced in countries except European Community

Questo apparecchio e fabbricato in conformita al D.M.28.08.95 n.548
ed in particolare a quanto specificato nell Art.2, comma 1.

- For products produced in European Community

Questo apparecchio e fabbricato nella U.E. in conformita al D.M.28.08.95 n.548
Art.2, comma 1 ed al D.M.26.03.92 Art.1

Important Safety Instructions(TV Only)

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with dry cloth.
- 7) Do not block any ventilation openings, Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, or other apparatus (including amplifiers) that produce heat.
- 9) Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11) Only use attachments/accessories specified by the manufacturer.
- 12) Use only with cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus.
When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- 13) Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.



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.	

Warning: To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

(EPA applied model only)
As an ENERGY STAR Partner, Samsung has determined that this product or product models meets the ENERGY STAR guidelines for energy efficiency.

■ Optional ■

Do not place the apparatus in a rack or bookcase. Ensure that there is adequate ventilation and that you've followed that manufacturer's instructions for mounting.

(For PDP or Projection TV apparatus)

If you place the apparatus in a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions.

Wiring the Mains Power Supply Plug(UK Only)

IMPORTANT NOTICE

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS11362 of the same rating must be used.

Never use the plug with the fuse cover omitted if the cover is detachable. If a replacement fuse cover is required, it must be of the same colour as the pin face of the plug. Replacement covers are available from your dealer.

If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance.

However, if there is no alternative to cut off the plug, remove the fuse and then safely dispose of the plug.

Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

IMPORTANT

The wires in the mains lead are coloured in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colours may not correspond to the coloured markings identifying the terminals in your plug, proceed as follows:

The wire coloured BLUE must be connected to the terminal marked with the letter N or coloured BLUE or BLACK.

The wire coloured BROWN must be connected to the terminal marked with the letter L or coloured BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL , OR COLOURED GREEN OR GREEN AND YELLOW.

Russia Only - PCT Notice



MPR II Compliance

TCO'95-Ecological requirements for personal computers (TCO'95 applied model only)
TCO'99-Ecological requirements for personal computers (TCO'99 applied model only)
TCO'03-Ecological requirements for personal computers (TCO'03 applied model only)
TCO'03 Recycling Information (TCO'03 applied model only)
Medical Requirement (Medical applied model only)

• MPR II Compliance

This monitor complies with SWEDAC(MPR II) recommendations for reduced electric and magnetic fields.

• TCO'95-Ecological requirements for personal computers (TCO'95 applied model only)



AB general requirements

AB2 Written Eco-document accompanying the products

Congratulations! You have just purchased a TCO'95 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and to the further development of environmentally-adapted electronic products.

Why do we have environmentally-labelled monitors?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem as far as monitors and other electronic equipment are concerned is that environmentally harmful substances are used both in the products and during their manufacture. Since it has not been possible so far for the majority of electronic equipment to be recycled in a satisfactory way, most of these potentially damaging substances sooner or later enter Nature.

There are also other characteristics of a monitor, such as energy consumption levels, that are important from both the working and natural environment viewpoints. Since all types of conventional electricity generation have a negative effect on the environment (acidic and climate-influencing emissions, radioactive waste, etc.) it is vital to conserve energy. Electronic equipment in offices consumes an enormous amount of energy, since it is often routinely left running continuously.

What does labelling involve?

This product meets the requirements for the TCO'95 scheme, which provides for international environmental labelling of monitors. The labelling scheme was developed as a joint effort by the TCO (The Swedish Confederation of Professional Employees), Naturskyddsforeningen (The Swedish Society for Nature Conservation) and NUTEK (The National Board for Industrial and Technical Development in Sweden).

The requirements cover a wide range of issues: environment, ergonomics, usability, emission of electrical and magnetic fields, energy consumption and electrical and fire safety.

The environmental demands concern among other things restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs (freons), and chlorinated solvents. The product must be prepared for recycling and the manufacturer is obliged to have an environmental plan, which must be adhered to in each country where the company conducts its operations policy. The energy requirements include a demand that the monitor after a certain period of inactivity shall reduce its power consumption to a lower level, in one or more stages. The length of time to reactivate the monitor shall be reasonable for the user.

Labelled products must meet strict environmental demands, for example in respect of the reduction of electric and magnetic fields, along with physical and visual ergonomics and good usability.

TCO Development Unit 1996-11-29

On the page this folder you will find a brief summary of the environmental requirements met by this product.

The complete environmental criteria document may be ordered from:

TCO Development Unit

S-11494 Stockholm

Sweden

Fax: +46 8 782 92 07

E-mail (Internet): development@tco.se

Current information regarding TCO'95-approved and labelled products may also be obtained via the Internet, using the address:

<http://www.tco-info.com/>

TCO'95 is a co-operative project between (3 logos)

Environmental Requirements

Brominated flame retardants are present in printed circuit boards, cables, wires, casings and housings. In turn, they delay the spread of fire. Up to thirty percent of the plastic in a computer casing can consist of flame retardant substances. These are related to another group of environmental toxins, PCBs, which are suspected to give rise to similar harm, including reproductive damage in fish eating birds and mammals, due to the bioaccumulative processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

TCO'95 demand requires that plastic components weighing more than 25 grams must not contain organically bound chlorine and bromine.

Lead

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning.

TCO'95 requirement Permits the inclusion of lead since no replacement has yet been developed.

Cadmium

Cadmium is present in rechargeable batteries and in the colour generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses.

TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of cadmium. The colour-generating layers of display screens must not contain any cadmium.

Mercury

Mercury is sometimes found in batteries, relays and switches. Mercury damages the nervous system and is toxic in high doses.

TCO'95 requirement states that batteries may not contain more than 25 ppm (parts per million) of mercury. It also demands that no mercury is present in any of the electrical or electronics components concerned with the display unit.

CFCs (freons)

CFCs (freons) are sometimes used for washing printed circuit boards and in the manufacturing of expanded foam for packaging. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on Earth of ultraviolet light with consequent increased risks of skin cancer (malignant melanoma).

The relevant TCO'95 requirement: Neither CFCs nor HCFCs may be used during the manufacturing of the product or its packaging.

● **TCO'99-Ecological requirements for personal computers (TCO'99 applied model only)**



Congratulations!

You have just purchased a TCO'99 approved and labelled product! Your choice has provided you with a product developed for professional use. Your purchase has also contributed to reducing the burden on the environment and also to the further development of environmentally adapted electronics products.

This product meets the requirements for the TCO'99 scheme which provides for an international environmental and quality labelling of personal computers. The labelling scheme was developed as a joint effort by the TCO(The Swedish Confederation of Professional Employees), Svenska Naturskyddsforeningen(The Swedish Society for Nature Conservation), Statens Energimyndighet(The Swedish National Energy Administration) and SEMKO AB.

The requirements cover a wide range of issues: environment, ergonomics, usability, reduction of electric and magnetic fields, energy consumption and electrical safety.

Why do we have environmentally labelled computers?

In many countries, environmental labelling has become an established method for encouraging the adaptation of goods and services to the environment. The main problem, as far as computers and other electronics equipment are concerned, is that environmentally harmful substances are used both in the products and during their manufacture. Since it is not so far possible to satisfactorily recycle the majority of electronics equipment, most of these potentially damaging substances sooner or later enter nature.

There are also other characteristics of a computer, such as energy consumption levels, that are important from the viewpoints of both the work (internal) and natural (external) environments. Since all methods of electricity generation have a negative effect on the environment (e.g. acidic and climate-influencing emissions, radioactive waste), it is vital to save energy. Electronics equipment in offices is often left running continuously and thereby consumes a lot of energy.

What does labelling involve?

The environmental demands have been developed by Svenska Naturskyddsforeningen (The Swedish Society for Nature Conservation). These demands impose restrictions on the presence and use of heavy metals, brominated and chlorinated flame retardants, CFCs(freons)and chlorinated solvents, among other things. The product must be prepared for recycling and the manufacturer is obliged to have an environmental policy which must be adhered to in each country where the company implements its operational policy.

The energy requirements include a demand that the computer and/or display, after a certain period of inactivity, shall reduce its power consumption to a lower level in one or more stages. The length of time to reactivate the computer shall be reasonable for the user.

Below you will find a brief summary of the environmental requirements met by this product. The complete environmental criteria document may be ordered from:

TCO Development

SE-114 94 Stockholm, Sweden

Fax: +46 8 782 92 07

Email (Internet): development@tco.se

Current information regarding TCO'99 approved and labelled products may also be obtained via the Internet, using the address: <http://www.tco-info.com/>

Environmental requirements

Flame retardants

Flame retardants are present in printed circuit boards, cables, wires, casings and housings. Their purpose is to prevent, or at least to delay the spread of fire. Up to 30% of the plastic in a computer casing can consist of flame retardant substances. Most flame retardants contain bromine or chloride, and those flame retardants are chemically related to another group of environmental toxins, PCBs. Both the flame retardants containing bromine or chloride and the PCBs are suspected of giving rise to severe health effects, including reproductive damage in fish-eating birds and mammals, due to the bio-accumulative* processes. Flame retardants have been found in human blood and researchers fear that disturbances in foetus development may occur.

The relevant TCO'99 demand requires that plastic components weighing more than 25 grams must not contain flame retardants with organically bound bromine or chlorine. Flame retardants are allowed in the printed circuit boards since no substitutes are available.

Cadmium**

Cadmium is present in rechargeable batteries and in the colour-generating layers of certain computer displays. Cadmium damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries, the colour-generating layers of display screens and the electrical or electronics components must not contain any cadmium.

Mercury**

Mercury is sometimes found in batteries, relays and switches. It damages the nervous system and is toxic in high doses. The relevant TCO'99 requirement states that batteries may not contain any mercury. It also demands that mercury is not present in any of the electrical or electronics components associated with the labelled unit. There is however one exception. Mercury is, for the time being, permitted in the back light system of flat panel monitors as today there is no commercially available alternative. TCO aims on removing this exception when a Mercury free alternative is available.

CFCs (freons)

The relevant TCO'99 requirement states that neither CFCs nor HCFCs may be used during the manufacture and assembly of the product. CFCs (freons) are sometimes used for washing printed circuit boards. CFCs break down ozone and thereby damage the ozone layer in the stratosphere, causing increased reception on earth of ultraviolet light with e.g. increased risks of skin cancer (malignant melanoma) as a consequence.

Lead**

Lead can be found in picture tubes, display screens, solders and capacitors. Lead damages the nervous system and in higher doses, causes lead poisoning. The relevant TCO'99 requirement permits the inclusion of lead since no replacement has yet been developed.

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● TCO'03-Ecological requirements for personal computers (TCO'03 applied model only)



Congratulations!

The display you have just purchased carries the TCO'03 Displays label. This means that your display is designed, manufactured and tested according to some of the strictest quality and environmental requirements in the world. This makes for a high performance product, designed with the user in focus that also minimizes the impact on our natural environment.

Some of the features of the TCO'03 Display requirements:

Ergonomics

Good visual ergonomics and image quality in order to improve the working environment for the user and to reduce sight and strain problems. Important parameters are luminance, contrast, resolution, reflectance, colour rendition and image stability.

Energy

Energy-saving mode after a certain time – beneficial both for the user and the environment
Electrical safety

Emissions

- Electromagnetic fields
- Noise emissions

Ecology

- The product must be prepared for recycling and the manufacturer must have a certified environmental management system such as EMAS or ISO 14 000
- Restrictions on
 - o chlorinated and brominated flame retardants and polymers
 - o heavy metals such as cadmium, mercury and lead.

The requirements included in this label have been developed by TCO Development in cooperation with scientists, experts, users as well as manufacturers all over the world. Since the end of the 1980s TCO has been involved in influencing the development of IT equipment in a more user-friendly direction. Our labelling system started with displays in 1992 and is now requested by users and IT-manufacturers all over the world.

For more information, Please visit
www.tcodevelopment.com

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● TCO'03 Recycling Information (TCO'03 applied model only)

[European Residents Only]

For recycling information for TCO'03 certified monitors, for the residents in the following countries, please contact the company corresponding to your region of residence. For those who reside in other countries, please contact a nearest local Samsung dealer for recycling information for the products to be treated in environmentally acceptable way.

	[U.S.A. Residents Only]	[European Residents Only]		
	U.S.A.	SWEDEN	NORWAY	GERMANY
COMPANY	Solid Waste Transfer & Recycling Inc	ELKRETSSEN	Elektronikkretur AS	vfw AG
ADDRESS	442 Frelinghuysen Ave Newark, NJ 07114	ELKRETSSEN Box 1357, 111 83 Stockholm Barnhusgatan 3, 4 tr.	6454 Etterstad 0602 Oslo Fyrstikkalln 3B	Max Plank Strasse 42 50858 Collogne Germany
TELEPHONE	973-565-0181	08-545 212 90	23 06 07 40	49 0 2234 9587 - 0
FAX	Fax: 973-565-9485	08-545 212 99	23 06 07 41	
E-MAIL	none	info@el-kretsen.se	adm@elektronikkretur.no	vfw.info@vfw-ag.de
HOME PAGE	http://www.bcua.org/Solid_Waste_Disposal.htm	http://www.el-kretsen.se/	http://www.elretur.no/	

● Medical Requirement (Medical applied model only)



Classifications:

In accordance with UL 2601-1/IEC 60601-1, the product is classified as Continuous duty Class I equipment, which is not protected against ingress of liquids. The product is not suitable for use in the presence of a flammable anaesthetic mixture with air or with oxygen or nitrous oxide.

EMC

This equipment has been tested and found to comply with the limits for medical devices to the IEC 601-1-2:1994. These limits are designed to provide reasonable protection against harmful interference in a typical medical 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 other devices in the vicinity. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to other devices, 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 device.
- Increase the separation between the equipment.
- Connect the equipment into an outlet on a circuit different from that to which the other device(s) are connected.
- Consult the manufacturer or field service technician for help.

Video In / RS 232 / Video Out

Accessories equipment connected to the analog and digital interfaces must be certified to the respective IEC standards (i.e. IEC 950 for data processing equipment and IEC 601-1 for medical equipment.) Furthermore all configurations shall comply with the system standard IEC 601-1-1. Everybody who connects additional equipment to the signal input part or signal output part configures a medical system, and is therefore, responsible that the system complies with the requirements of the system standard IEC 601-1-1. If in doubt, consult the technical services department or your local representative.

Transport and Storage Limitations:

Temperature Range of -40°C to +70°C

Relative Humidity of 10 -95%, non-condensing

* Bio-accumulative is defined as substances which accumulate within living organisms.

** Lead, Cadmium and Mercury are heavy metals which are Bio-accumulative.

~ 10.5

SAMSUNG

PLASMA DISPLAY

Owner's Instructions
HP-R8082



This device is a Class A digital apparatus.

Register your product at www.samsung.com/global/register

Important Warranty Information Regarding Monitor 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 the images are constantly moving. Displaying stationary graphics and images on screen, such as the dark side-bars on nonexpanded 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 monitor 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.

Plasma Display

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 Monitor) on the plasma monitor panel for more than 2 hours as it can cause screen image retention. This image retention is also known as "screen burn". To avoid such image retention, reduce the degree of brightness and contrast of the screen when displaying a still image.

● Height

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

● Heat on the top of the PDP Monitor

The top side of the product may be hot after long periods of use as heat dissipates from the panel through the vent hole in the upper part of the product. This is normal and does not indicate any defect or operation failure of the product. However, children should be prevented from touching the upper part of the product.

● The product is making a 'cracking' noise.

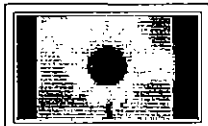
A 'cracking' noise may occur when the product contracts or expands due to a change of surrounding environment such as temperature or humidity. This is normal and not a defect of the unit.

● Cell Defects

The PDP Monitor uses a panel consisting of 1,230,000(SD-level) to 3,150,000(HD-level) pixels which require sophisticated technology to produce. However, there may a few bright or dark pixels on the screen. These pixels will have no impact on the performance of the product.

● Avoid operating the PDP Monitor at temperatures below 5°C (41°F)

● A still image displayed too long may cause permanent damage to the PDP Monitor Panel



Watching the PDP Monitor in 4:3 format for a long period of time may leave traces of borders displayed on the left, right and center of the screen caused by the difference of light emission on the screen. Playing a DVD or a game console may cause similar effect to the screen. Damage caused by the above effect are not covered by the Warranty.

● Afterimage on the Screen.

Displaying still images from Video games and PC for longer than a certain period of time may produce partial afterimages. To prevent this effect, reduce the 'brightness' and 'contrast' when displaying still images for a long time.

● Warranty

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

● Installation

Be sure to contact an authorized service center, when installing your monitor in a location with heavy dust, high or low temperatures, high humidity, chemical substance and where it operates for 24 hours such as the airport, the train station or etc. Failure to do so may cause a serious damage to your monitor. Installing the product in an airtight place may shorten the lifetime of the product.

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Plasma Display

Function Description

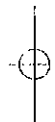
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Note

- The information contained in this Owner's Instructions is subject to change without prior notice for improvement, and may vary depending on the version of the PDP Monitor's software and the regional conditions.



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

General Information

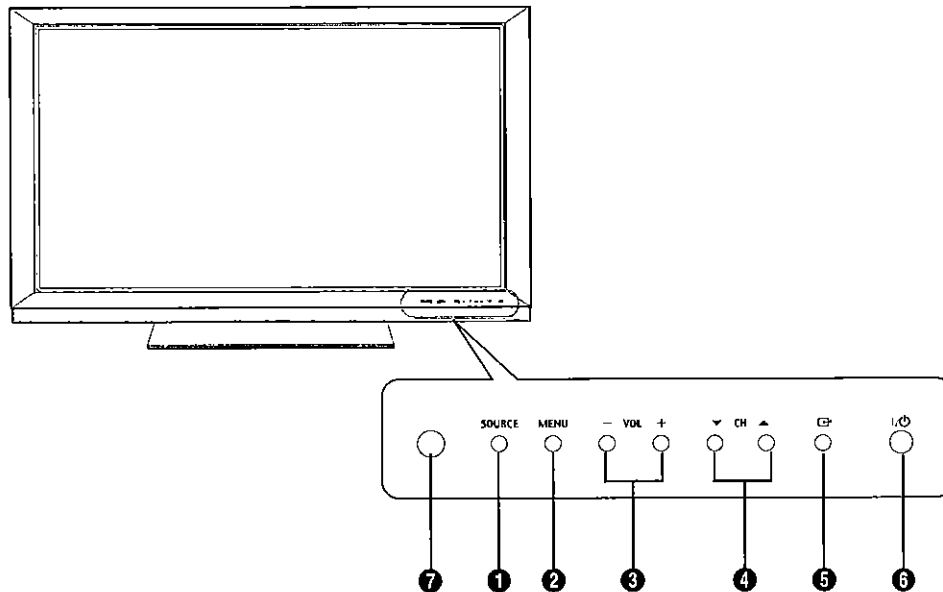


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Your New Plasma Display Panel

Front Panel



❶ SOURCE button

Press to display all of the available video sources (AV1, AV2, S-Video1, S-Video2, Component1, Component2, PC, DVI and HDMI).

❷ MENU button

Displays the main on-screen menu.

❸ VOL +, - buttons

Press to increase or decrease the volume. Also used to select or adjust items on the on-screen menu.

❹ CH(▲, ▼) buttons

Press CH ▲ or CH ▼ to change channels. Also used to move up or down in the on-screen menu.

❺ (Enter) button

Press to confirm a selection.

❻ Power button

Press to turn the PDP Monitor on and off.

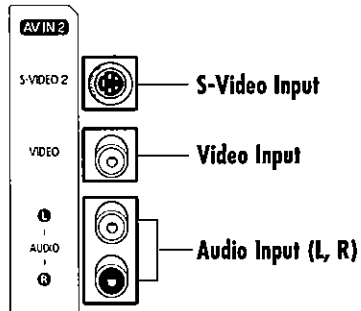
Power indicator
- Power Off : Blue
- Power On : Off

❼ Remote Control Sensor

Aim the remote control towards this spot on the PDP Monitor.

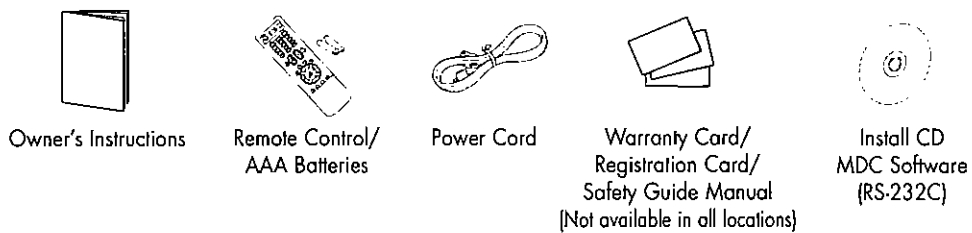
Plasma Display

Side of the PDP Monitor

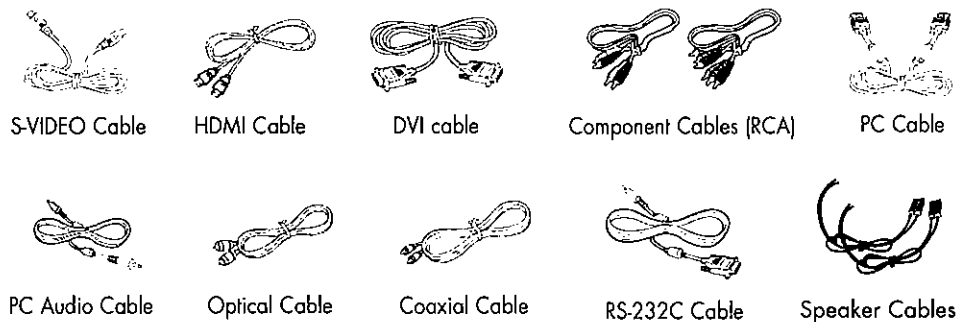


Checking Accessories

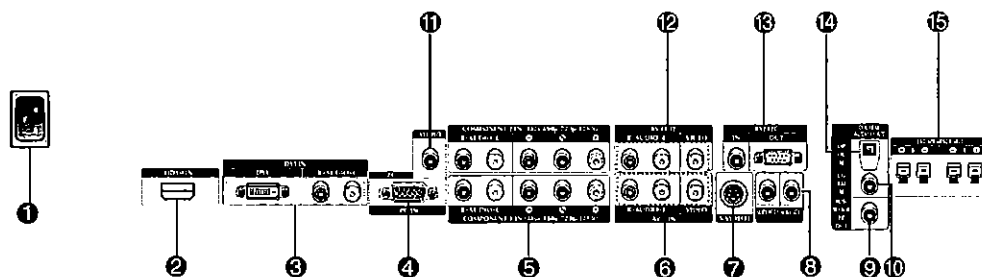
Once you have unpacked your PDP Monitor, check to make sure that you have all the parts shown here. If any piece is missing or broken, call your dealer.



The following parts are sold separately and are available at most electronics stores.



Rear Panel



① POWER IN

Connect the supplied power cord.

② HDMI IN

Connect to the HDMI jack of a device with HDMI output.

③ DVI IN

- **DVI** : Connect to the video output jack for device with DVI output.
- **AUDIO L/R** : Connect to the audio output jack for devices with DVI output.

④ PC IN

Connect to the video output jack on your PC.

⑤ COMPONENT IN 1, 2

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

⑥ AV IN 1 (VIDEO / AUDIO L/R)

Video and audio inputs for external devices, such as a camcorder or VCR.

⑦ S-VIDEO 1

Video input for external devices with an S-Video output, such as a camcorder or VCR.

⑧ SERVICE 1, 2

Connector for service only.

⑨ SUB-WOOFER OUT

Connect to an active SUB-WOOFER.

⑩ COAXIAL DIGITAL AUDIO OUT

Connect to a Digital Audio component.

⑪ PC AUDIO IN

Connect to the audio output jack on your PC.

⑫ AV OUT (VIDEO / AUDIO L/R)

Outputs for external devices.

⑬ RS-232C

- **IN** : Used for the MDC function when connecting PC or RS-232C output of another PDP Monitor.
- **OUT** : Used for the MDC function when connecting with RS-232C input of another PDP Monitor.

⑭ OPTICAL DIGITAL AUDIO OUT

Connect to a Digital Audio component.

⑮ EXT SPEAKER (8Ω)

Connect external speakers.

Notes

- Please be sure to match the color coded input terminals and cable jacks.
- For further details about connections, refer to pages 16-24.
- Whenever you connect an audio or video system to your television, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

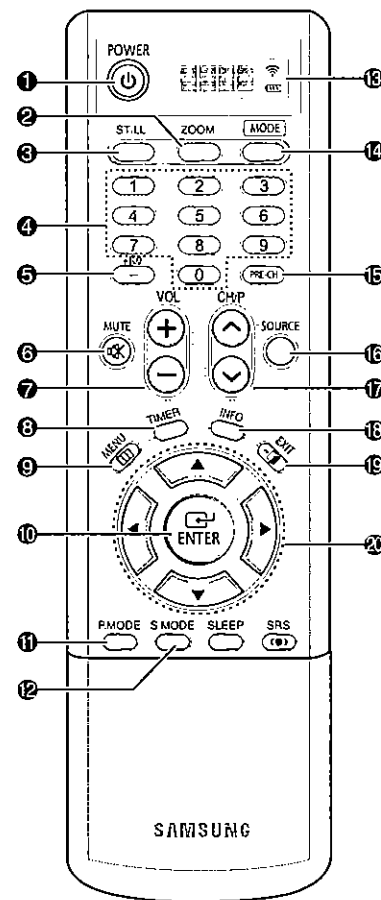


Plasma Display

Remote Control Buttons

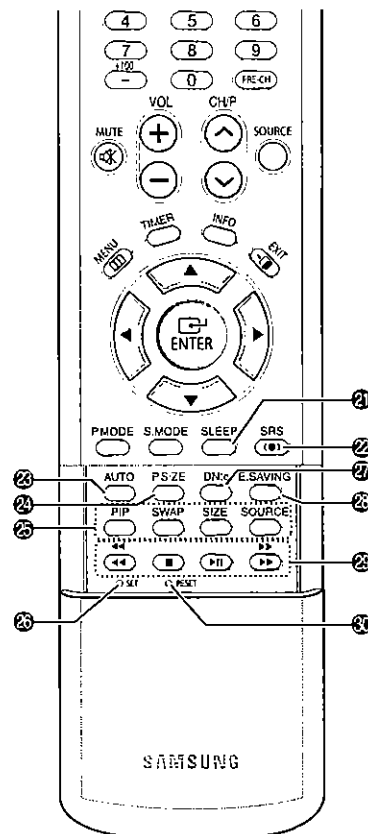
Remote Control

- 1 POWER button**
Turns the PDP Monitor on and off.
- 2 ZOOM button**
Press to magnify the screen.
- 3 STILL button**
Press to pause the current screen.
- 4 Number buttons**
- 5 +100 button**
Press to select channels over 100. For example, to select channel 121, press "+100", then press "2" and "1."
- 6 MUTE button**
Press to mute the PDP Monitor sound.
- 7 VOL (Volume) buttons**
Use it to adjust volume.
- 8 TIMER button**
Press to set the timer.
- 9 MENU button**
Displays the main on-screen menu.
- 10 ENTER button**
Confirms a selection.
- 11 P.MODE button**
Adjust the PDP Monitor picture by selecting one of the preset factory settings (or select your personal, customized picture settings).
- 12 S.MODE button**
Select Sound effect.
- 13 LCD DISPLAY**
When you press a button, 'Ⓛ' appears along with selected mode (VCR, CATV, DVD or STB) and the remote's battery charge status.
- 14 MODE button**
Selects a target device to be controlled by the Samsung remote control (i.e., VCR, Cable, DVD players or Samsung STB). If you change modes, the new mode is momentarily displayed on LCD.
- 15 PRE-CH button**
Tunes to the previous channel.
- 16 SOURCE button**
Press to display all of the available video sources (AV1, AV2, S-Video1, S-Video2, Component1, Component2, PC, DVI and HDMI).
- 17 CH (Channel)/P buttons**
Use it to switch channels. Move up or down pages on the menu and TV/Radio list.
- 18 INFO button**
Press to display information on the PDP Monitor screen.
- 19 EXIT button**
Press to exit the menu.
- 20 Up/Down/Left/Right buttons**
Control the cursor in the menu.



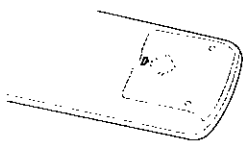
Continued...

- 21 SLEEP button**
Press to select a preset time interval for automatic shutoff.
- 22 SRS button**
Selects Trusurround XT mode.
- 23 AUTO button**
Press to reset automatically screen quality and position in PC mode.
- 24 P.SIZE button**
Select Picture size. (Refer to page 40)
- 25 PIP control buttons**
PIP: Activates picture in picture. (Refer to page 42)
Size: Press to make the PIP window Large, Small or Double.
Swap: Exchanges the video signal that is currently displayed on the main screen with the signal in the PIP window.
Source: Press to select one of the available signal sources for the PIP window.
- 26 SET button**
Used during set up of this Samsung remote control, so that it will work compatibly with other devices (VCR, Cable Box and DVD).
- 27 DNLe button**
Activates DNLe Demo. (Refer to page 39)
- 28 E.SAVING button**
Press to adjust screen brightness according to surrounding environment. (Refer to page 82)
- 29 VCR, DVD control buttons**
Controls VCR tape or DVD disc functions: Stop, Rewind, Play/Pause, and 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.

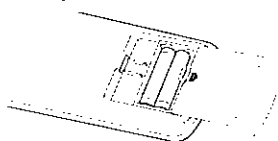


Installing the Batteries in Your Remote Control

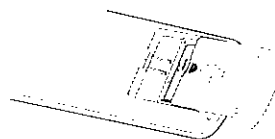
- 1** Slide the back cover to open the battery compartment of the remote control.



- 2** Install two AAA size batteries. Make sure to match the "+" and "-" ends of the batteries with the diagram inside the compartment.

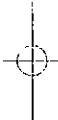


- 3** Slide the cover back into place.



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 Monitor's remote control receiver.



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

Connections



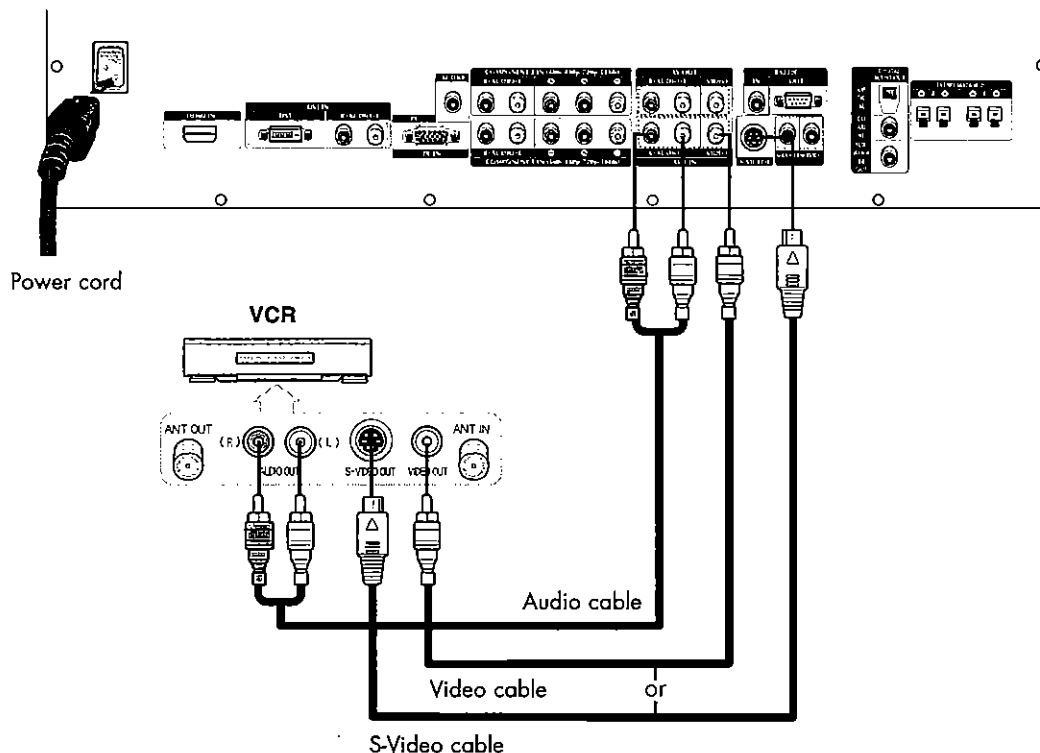
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Connecting a VCR

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

PDP Monitor Rear Panel



How to Connect

Connect the Video/Audio cables between the VIDEO or S-VIDEO/AUDIO input jacks on the PDP Monitor and VIDEO or S-VIDEO/AUDIO output jacks on the VCR.
(Note: For better video, use an S-Video cable.)

Note

- Please be sure to match the color coded input terminals and cable jacks.

Videotape Playback:

1. Turn on your PDP Monitor.
2. Turn on your VCR, insert a videotape and press the Play button.
3. Press the SOURCE button to select "Video (AV1 or AV2)" or "S-Video (S-Video1 or S-Video2)".

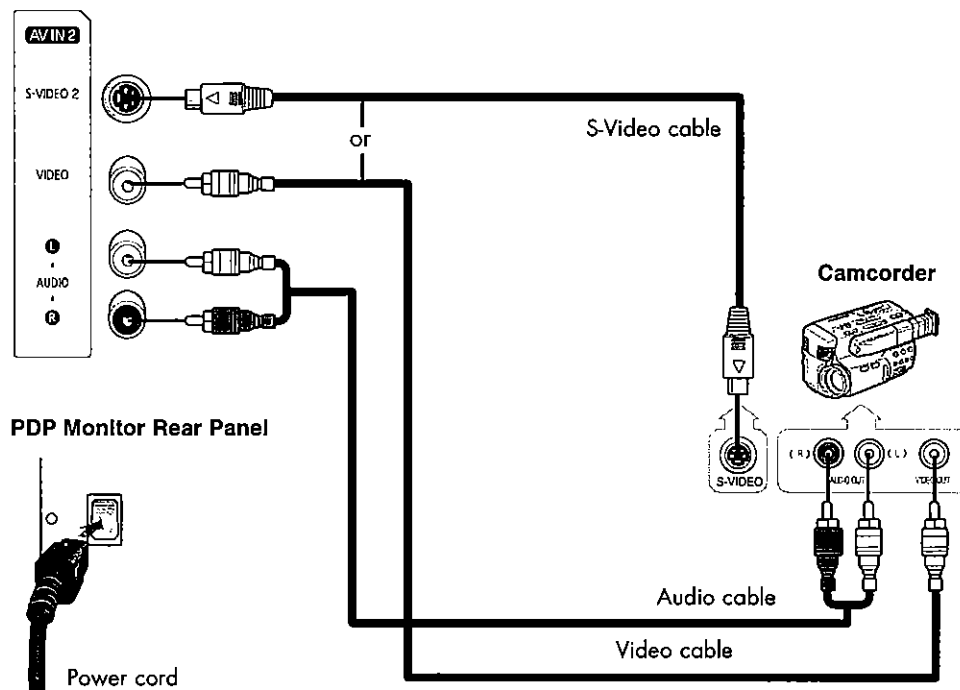


Plasma Display

Connecting a Camcorder

Viewing camcorder tapes

Side of the PDP Monitor



How to Connect

Connect a Video/Audio cable between the VIDEO or S-VIDEO/AUDIO input jacks on the PDP Monitor and the VIDEO or S-VIDEO/AUDIO output jacks on the camcorder.
(Note: For better video, use an S-VIDEO cable.)

Note

- Please be sure to match the color coded input terminals and cable jacks.

Viewing Tapes

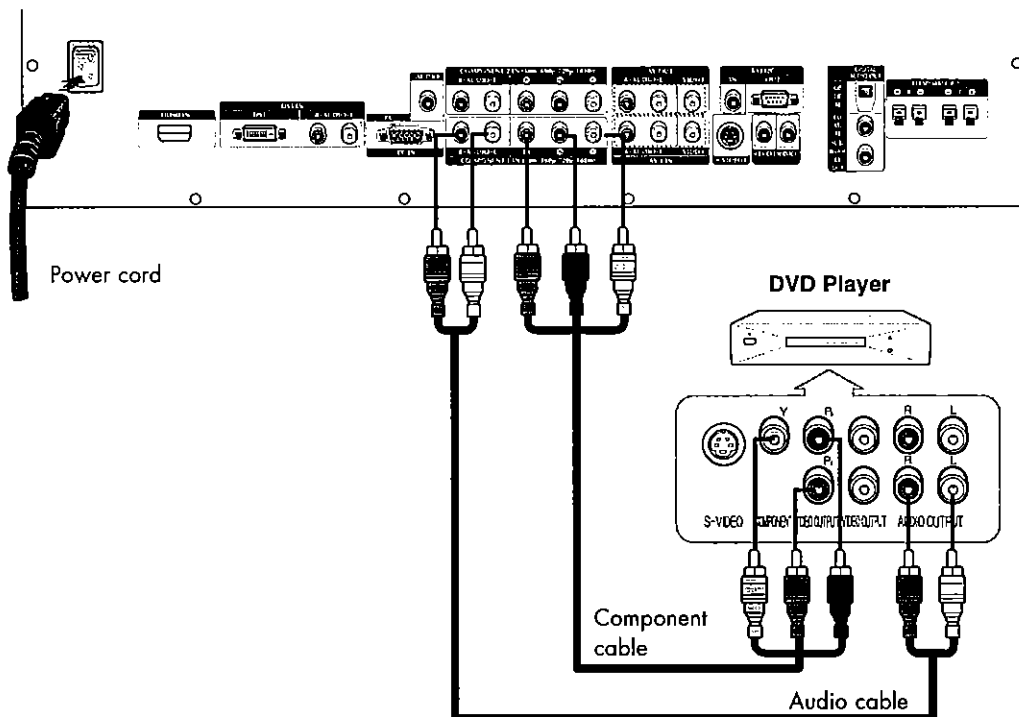
1. Turn on your PDP Monitor.
2. Press the SOURCE button to select "Video [AV1 or AV2]" or "S-Video [S-Video1 or S-Video2]".
3. Turn on your camcorder and set it to video mode. (For details, refer to your camcorder owner's instructions.)
4. Set the IN/OUT switch on your camcorder to OUT.
5. Insert the tape into the camcorder and press the Play button.



Connecting a DVD Player (480i, 480p)

Playing DVD

PDP Monitor Rear Panel



How to Connect

- 1 Connect the Y, Pb, Pr (COMPONENT1, 2) input jacks on the PDP Monitor to the Y, Pb, Pr output jacks on the DVD player using a component cable.
- 2 Connect the AUDIO L/R (COMPONENT1, 2) input jacks on the PDP Monitor to the AUDIO output jacks on the DVD player using an audio cable.

Note

- Please be sure to match the color coded input terminals and cable jacks.

To Play DVD:

1. Turn on your PDP Monitor.
2. Turn on your DVD player, insert a DVD disc and press the Play button.
 - For an explanation of component video, see your DVD player's owner's instructions.
3. Press the SOURCE button to select "Component 1" or "Component 2".



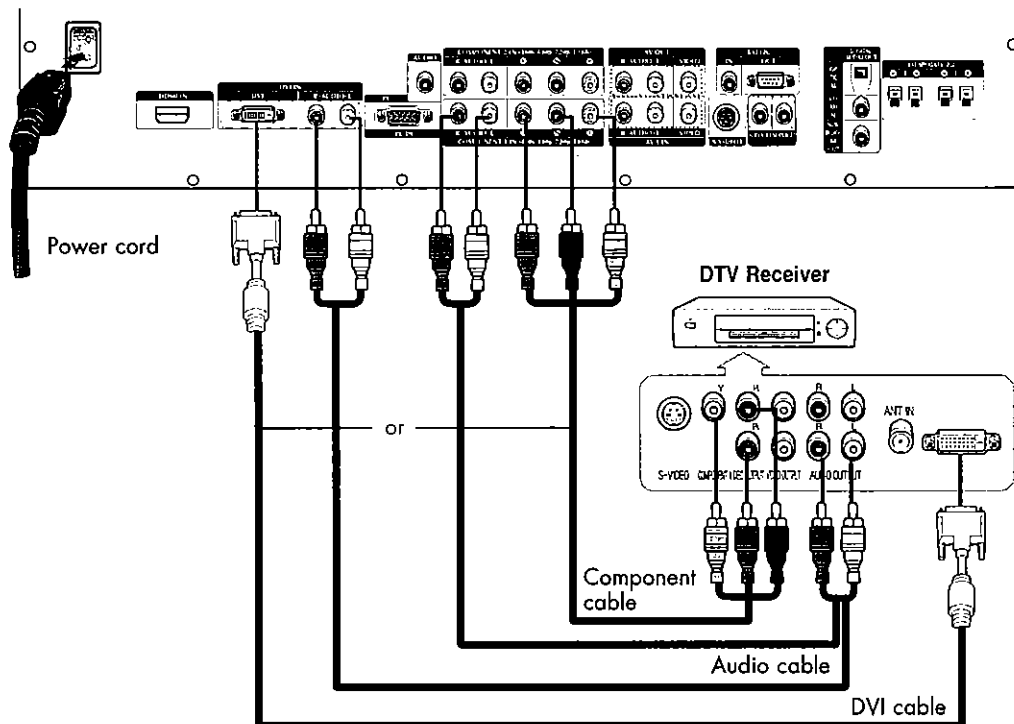
Plasma Display

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

This PDP Monitor displays the optimum picture in 720p mode.

Watching DTV

PDP Monitor Rear Panel



How to Connect

- 1 Connect the cable or antenna to the antenna input jack on the DTV.
- 2 Connect the Y, Pb, Pr (COMPONENT1, 2) or DVI input jack on the PDP Monitor to the Y, Pb, Pr or DVI output jacks on the DTV receiver using a component or DVI cable.
- 3 Connect the AUDIO L/R (COMPONENT1, 2 or DVI AUDIO IN) input jacks on the PDP Monitor with the AUDIO output jacks on the DTV receiver using an audio cable.

Note

- Please be sure to match the color coded input terminals and cable jacks.

To Watch DTV:

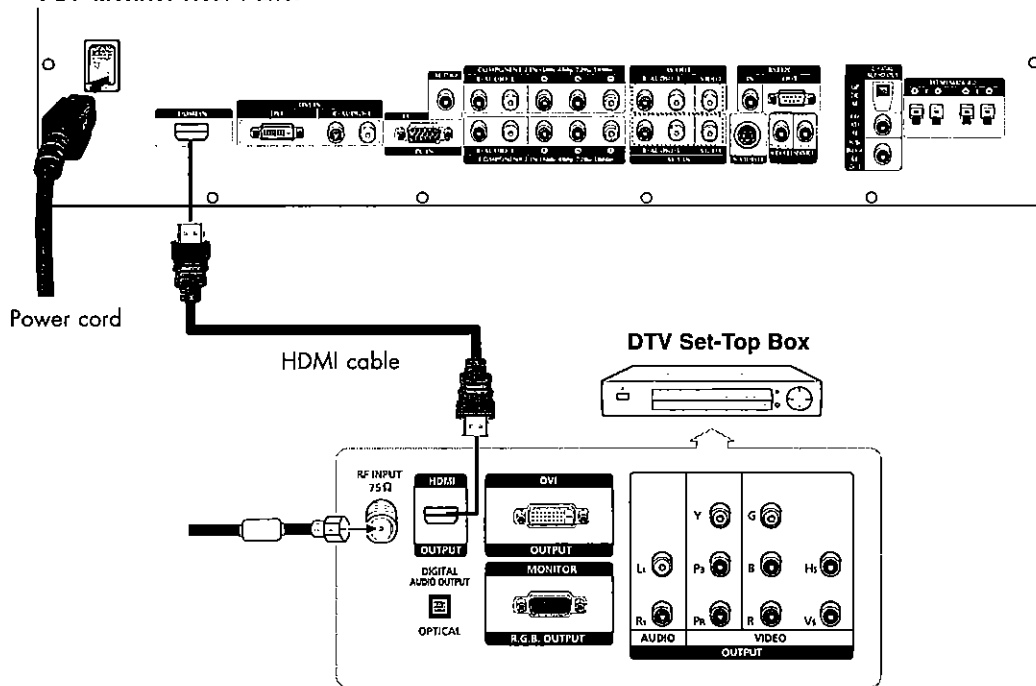
1. Turn on your PDP Monitor.
2. Turn on your DTV receiver.
 - For an explanation of component video, see your DTV receiver owner's instructions.
3. Press the SOURCE button to select "Component1", "Component2" or "DVI".



Connecting to HDMI (High Definition Multimedia Interface) (480p, 720p, 1080i)

Watching DTV

PDP Monitor Rear Panel



How to Connect

- 1 Connect the cable or antenna to the antenna input jack on the DTV.
- 2 Connect the HDMI input jack on the PDP Monitor with the HDMI output jack on the DTV Set-Top Box using an HDMI cable.

Note

- Please make sure the HDMI source's power is on before selecting HDMI from the "Source List" on the PDP Monitor.

To Watch DTV:

1. Turn on your PDP Monitor.
2. Turn on your DTV receiver.
 - For an explanation of HDMI video, see your DTV receiver owner's instructions.
3. Press the SOURCE button to select "HDMI".

Plasma Display

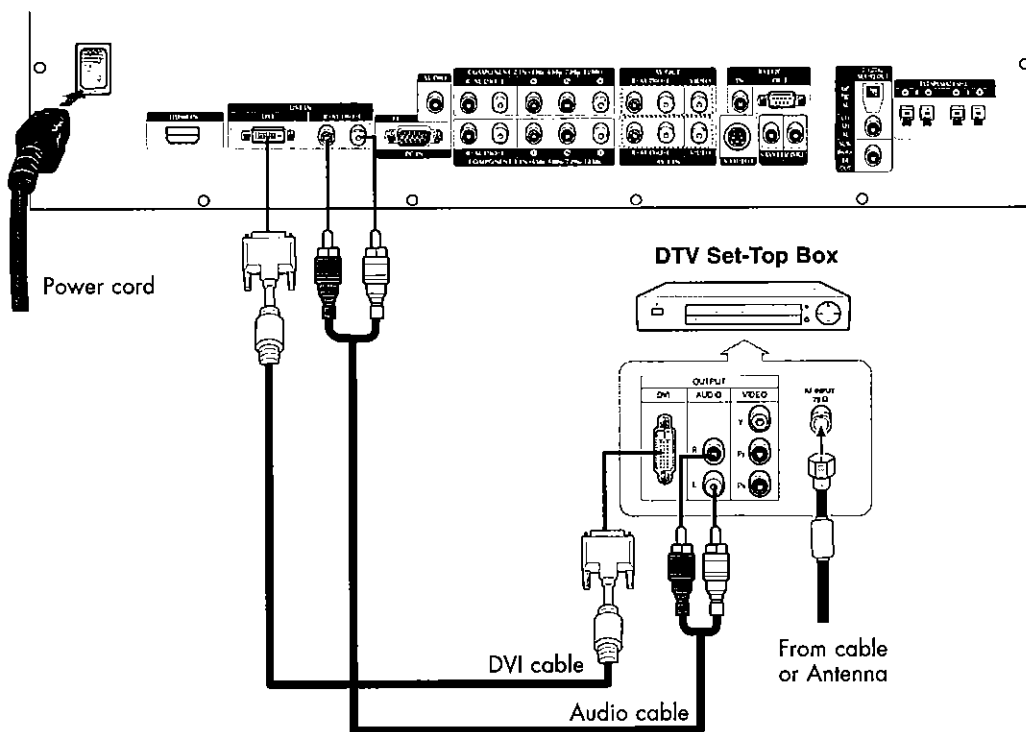


Connecting a Digital Set-Top Box (480p, 720p, 1080i)

By inputting a high-bandwidth digital content protection High-Definition picture source to the DVI input jack on the PDP Monitor, High-Definition pictures can be displayed on the screen in their digital form.

Connecting to DVI Compatible

PDP Monitor Rear Panel



How to Connect

- 1 Connect the DVI AUDIO (L, R) input jacks on the PDP Monitor with the AUDIO output jacks on the Set-Top Box using an audio cable.

Note

- Use analog stereo audio inputs when using the DVI input with a device that outputs DVI instead.

- 2 Connect the DVI input jack on the PDP Monitor and the DVI output jack on the Set-Top Box using an DVI cable.

Note

- The DVI IN jack is not compatible with PC.

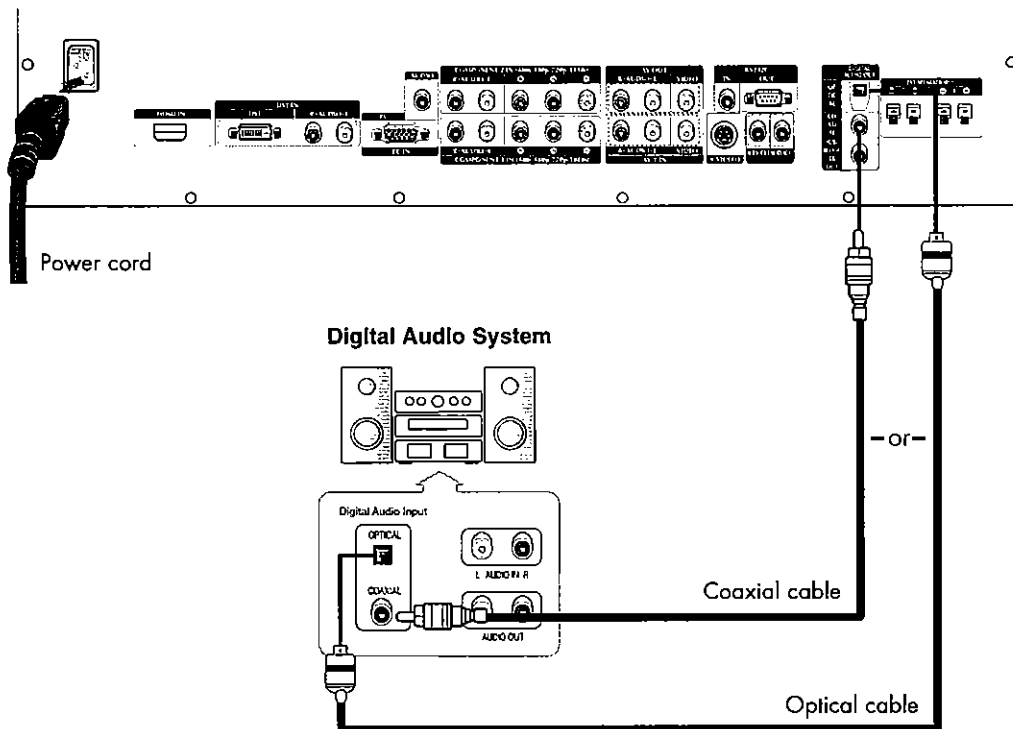


Connecting a Digital Audio System

There are many types of digital audio systems on the market today.

A simplified illustration of an audio system is shown below. For more information, see your audio system owner's manual.

PDP Monitor Rear Panel



How to Connect

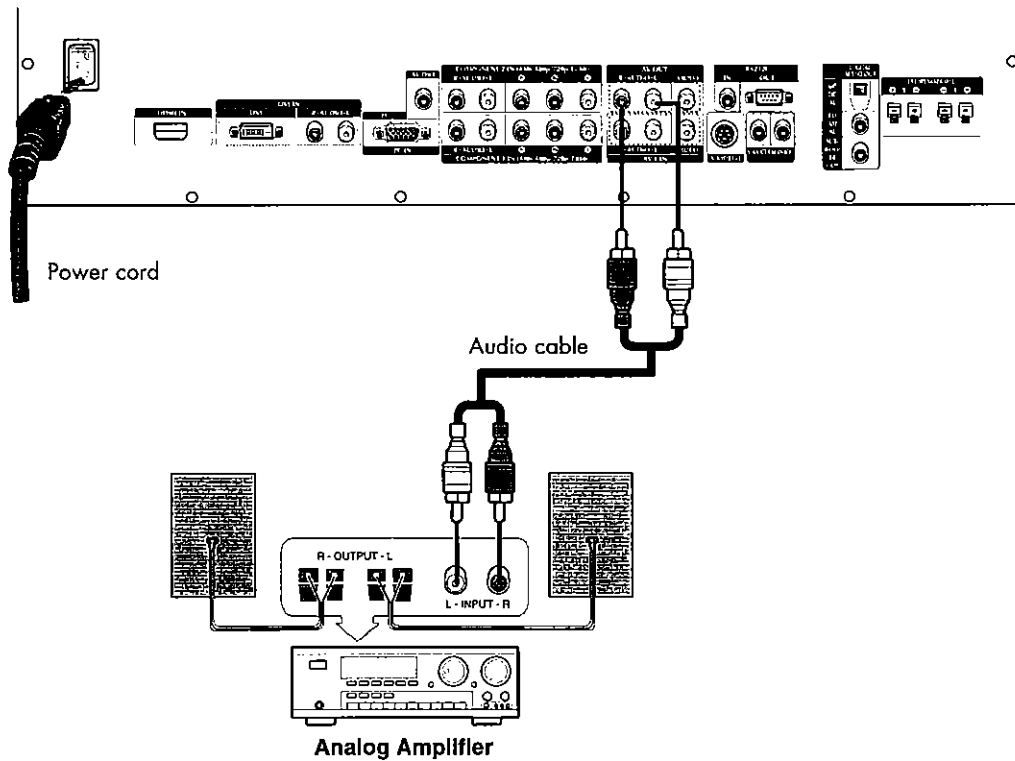
- 1 If your audio system has a coaxial digital audio input, connect to the "COAXIAL" output jack on the PDP Monitor.
- 2 If your audio system has an optical digital audio input, connect to the "OPTICAL" output jack on the PDP Monitor.
Be certain to remove the black cover from the optical output before inserting the cable.
- 3 If your system has both coaxial and optical digital audio inputs, SAMSUNG recommends you use the optical digital output on the PDP Monitor.
Do not connect both optical and coaxial cables. This may damage your audio system.
 - OPTICAL: converts the electric signal into an optical light signal, and transmits it through glass fibers.
 - COAXIAL: The digital audio signal is received through a coaxial copper cable.



Plasma Display

Connecting to an Analog Amplifier

PDP Monitor Rear Panel



How to Connect

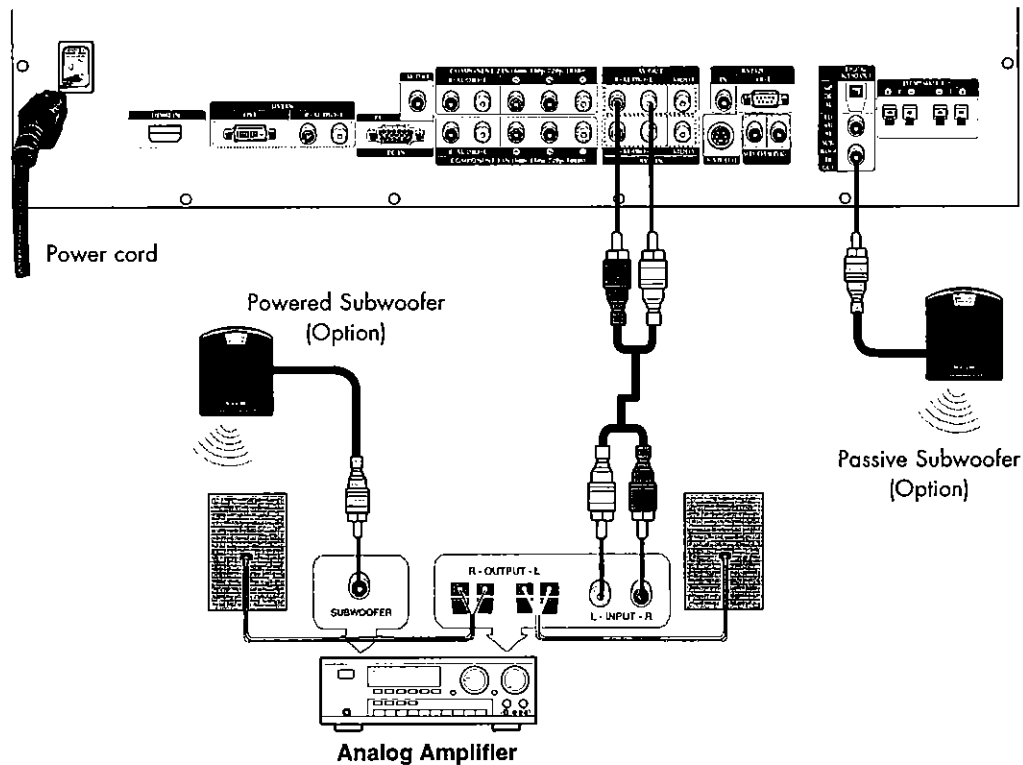
- The "AV OUT (AUDIO L/R)" terminals cannot be used for external speakers. You must hook them up to an amplifier.

When an audio amplifier is connected to the "AV OUT (AUDIO L/R)" terminals:
Decrease the gain (volume) of the audio amplifier, turn the PDP Monitor's internal mute on and adjust the volume level with the volume control of the amplifier.



Connecting to a Subwoofer Speaker

PDP Monitor Rear Panel



How to Connect

- 1 Connect a powered subwoofer to the SubWoofer jack on the PDP Monitor using the subwoofer cable.
- 2 To use a passive subwoofer, connect an amplifier and use referring to the connection procedures described in "Connecting to an Analog Amplifier".

Note

- Powered subwoofer: This is a subwoofer with a built-in amplifier.
- Passive subwoofer: This is a subwoofer without a built-in amplifier.
You have to install an additional amplifier and connect to the subwoofer.

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

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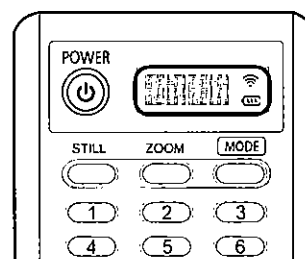
Turning the PDP Monitor On and Off

Turning the PDP Monitor On and Off

Press the POWER (⏻) button on the remote control. The PDP Monitor will be turned on and you will be able to use its features. You can also use the Power button on the front of the PDP Monitor.

Note

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

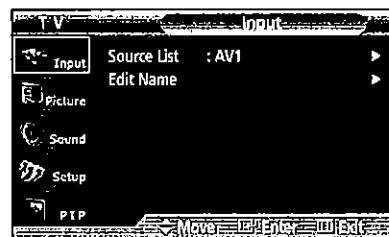


Viewing the Menus and Displays

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

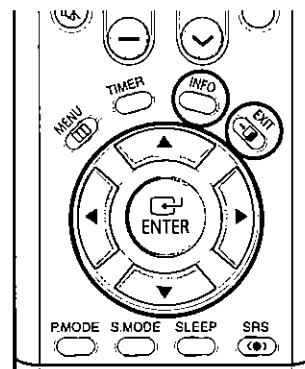
Viewing the Menus

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



- Press the ▲ or ▼ button to move to items in the menu. Press the ◀/▶/ENTER 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 two minutes or you can press the EXIT button on your remote control to exit the menu.



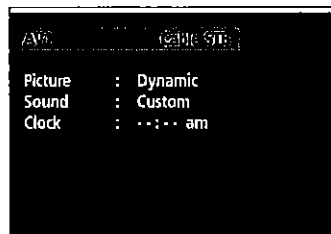
Plasma Display

Displaying Status Information

Press the INFO button on the remote control.
The PDP Monitor will display the Picture mode, Sound mode, and Clock.

Note

- The INFO window automatically disappears after a few seconds. Press the INFO button once to manually close the window.



Changing Channels

Using the Channel Buttons

Press the CH $\wedge$ or CH $\vee$ button to change channels.

When you press the CH $\wedge$ or CH $\vee$ button, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV 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".

When you use the number buttons, you can directly select channels that were either erased or not memorized. To select a channel over 100, press the +100 button. (For channel "112", press the +100 button, then "1", then "2". To change to single-digit channels (0-9) faster, press "0" before the single digit. (For channel "4" press "0", then "4").

Note

- For quick channel change, press the number buttons and then press ENTER button.

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

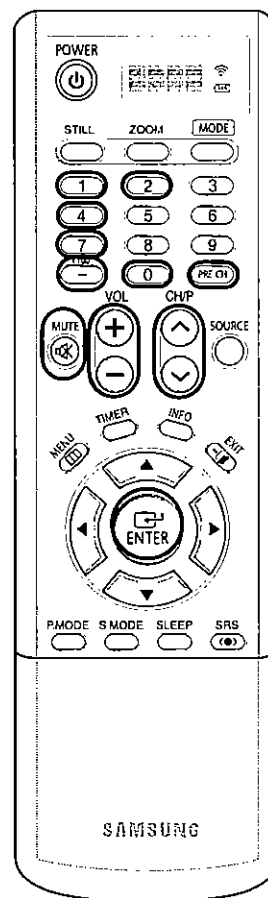
Press the VOL + or VOL - button to increase or decrease the volume.

Using Mute

Using the MUTE Button

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

- Press the MUTE button and the sound cuts off. The word "MUTE" will appear in the lower-left corner of the screen.
- To turn mute off, press the MUTE button again, or simply press the VOL + or VOL - button.





Plug & Play Feature

When the PDP Monitor is initially powered On, basic customer settings proceed automatically and subsequently: Setting the language and time.

Note

- The Plug & Play function operates after plugging in the PDP Monitor for the first time.

- 1 If the television is in Standby mode, press the POWER button on the remote control.
The message "Press ENTER to start." is displayed.
Press the ENTER button to select Start.
The Language menu is displayed.

Note

- The Language menu will automatically appear after several seconds, even if the ENTER button is not pressed.



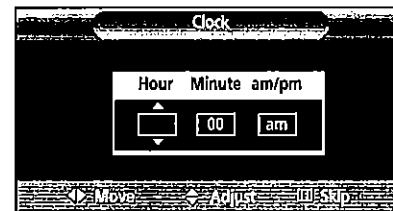
- 2 Select the appropriate language by pressing the ▲ or ▼ button.
Press the ENTER button to confirm your choice.
The Clock menu is displayed.



- 3 Press the ENTER button.
Press the ◀ or ▶ button to move to the Hour, Minute, or am/pm.
Set the Hour, Minute, or am/pm by pressing the ▲ or ▼ button.
Press the ENTER button.

Note

- You can set the Hour and Minute directly by pressing the number buttons on the remote control.



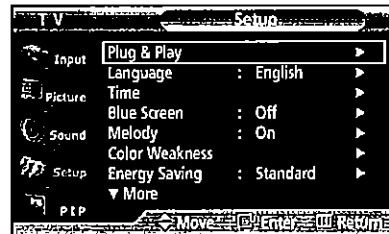
- 4 When it has finished, the message "Enjoy your watching." is displayed.



Continued...

To reset this feature....

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ENTER button to select "Plug & Play".



- 3 For further details on setting up options, refer to the previous page.

Note

- Plug and Play can only be accessed in the TV mode.



Plasma Display

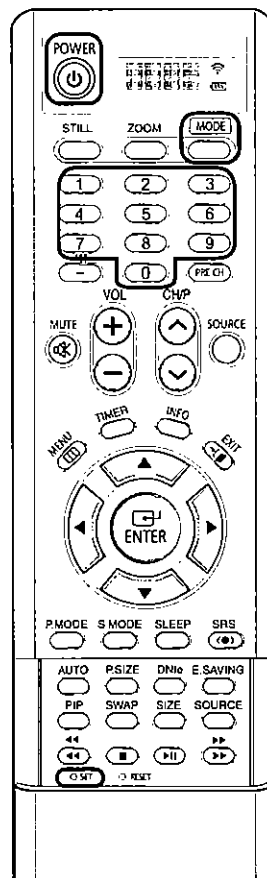
Setting Up Your Remote Control

Your PDP Monitor comes equipped with a universal remote control. In addition to controlling the PDP Monitor, the universal remote control can also operate a VCR, Cable box, DVD, and some Samsung Set-top boxes (even if your VCR, Cable box and DVD are made by manufacturers other than Samsung).

Note : • The remote control might not be compatible with all DVD Players, VCRs, Cable boxes, and Set-Top 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. The Mode is changed whenever MODE button is pressed.
- 3 Press the SET button on your PDP Monitor'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 Cable box, 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 Cable box, DVD) should turn on if your remote is set up correctly. If your VCR (or Cable box, 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 Cable box, DVD). If no other codes are listed, try each code, 000 through 089 (or Cable box: 000 through 077, DVD player: 000 through 008).



Note

- When your remote control is in "VCR", "CABLE", or "DVD" mode, the VCR control buttons (STOP, REW, PLAY/PAUSE, and 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	017 019 002 021 035 041 043 057 068
Aiwa	025	Kenwood	007 008 018 026 037	Samsung	000 001 002 003 004 005
Akai	027 004 032	KLH	070	Sansui	026
Audio Dynamics	007 026	Lloyd	025	Sanyo	018 024
Bell&Howell	018	Logik	038	Scott	003 047 052 067
Broksonic	022	LXI	025	Sears	018 019 006 024 028 029 041
Candle	002 006 003 015 008 055	Magnavox	021 036 056 059	Sharp	048 051
Canon	021 056	Marantz	008 007 018 021 026 036	Shimom	020 034 045 015
Citizen	002 003 006 008 015 055		037 062	Signature	025
Colortyme	007	Marta	006	Sony	027 033 038 058
Craig	002 024	MEI	021		025
Curtis Mathes	002 017 007 008	Memorex	006 021 024 025	Sylvania	021 025 036 056 059
	021 025 056 064 066	MGA	034	Symphonic	025
Daewoo	003 015 010 011 012 013	Midland	005	Tandy	018 025
	014 016	Minolta	019 041	Tashika	006
DBX	007 026	Mitsubishi	019 034 041 046	Tatung	037
Dimensia	017	Montgomery Ward	020	Teac	025 037 068
Dynatech	034	MTC	002 025	Technics	021
Emerson	001 003 006 021 022 025	Multitech	002 025 038 005	Teknika	021 006 025 031
	030 032 034 040 047 050	NEC	018 007 026 037 008 062 064	TiMK	066
	052 060 063 065 066 067	Optimus	020	Toshiba	003 019 029 051 052
	069	Panasonic	021 056 071 072	Totevision	002 006
Fisher	018 024 028 029 048 051 061	Pentax	019 041	Unitech	002
Funai	025	Pentex Research	008	VectorResearch	007 026
General Electric	017 002 021	Philco	021 036 056 059	Victor	026
	005 056	Philips	021 036	Video Concepts	007 026
Go Video	002	Pioneer	019 026 039 053	Videosonic	002
LG(Goldstar)	006 007 008 009 010	Portland	015 049 055	Wards	002 003 006 019 020 021
Harman Kardon	007	PROSCAN	017		024 025 034 038 041
Hitachi	019 025 041 042	Quartz	018	Yamaha	007 008 018 026 037
InstantReplay	021	Quasar	021 056	Zenith	023 027 033 073
JC Penny	002 007 018 019 021	Radio Shack/Realistic			
	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	Philips	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	Wamer amex	046
Panasonic	003 022 027 037 044	Scientific Atlanta	042 043	Zenith	017 029 035 037 045

DVD Codes

Brand	Codes
Samsung	000 001
JVC	002
PROSCAN	003
RCA	003
LG(Goldstar)	006
Sony	007
Denon	008
Curtis Mathes	009



Plasma Display

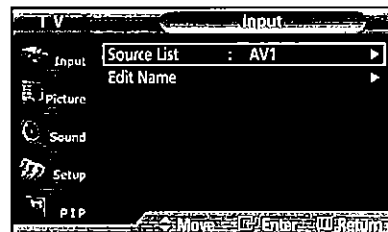
Viewing an External Signal Source

Use the remote control to switch between viewing signals from connected equipment, such as VCR, DVD, and the Set-Top Box source.

Setting the Signal Source

- 1 Press the MENU button.
Press the ENTER button to select "Input".

➤ Quick way to access viewing an external signal source :
Just press "SOURCE" button on the remote control.



- 2 Press the ENTER button to select "Source List".



- 3 Press the ▲ or ▼ button to select signal source, then press the ENTER button.

Note

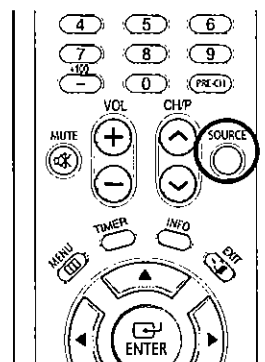
- Only connected devices can be selected.



- 4 Press the EXIT button to exit.

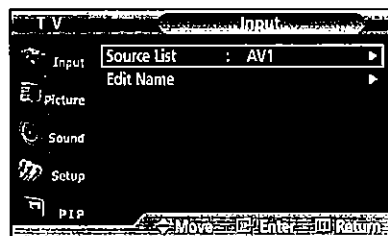
Notes

- When you connect equipment to the PDP Monitor, you can choose between the following sets of jacks: AV1, S-VIDEO1, COMPONENT 1, COMPONENT 2, PC, DVI or HDMI on the PDP Monitor's rear panel and AV2 or S-VIDEO2 on the PDP Monitor's side panel.
- HDMI input can only be selected when the external device is turned on and connected via HDMI.



Assigning Names to External input mode

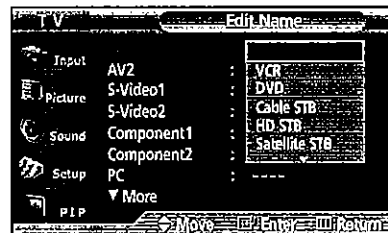
- 1 Press the MENU button.
Press the ENTER button to select "Input".



- 2 Press the ▲ or ▼ button to select "Edit Name", then press the ENTER button.



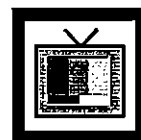
- 3 Press the ENTER button.
Press the ▲ or ▼ button to select external device, then press the ENTER button.
 - You can select the VCR, DVD, Cable STB, HD STB, Satellite STB, AV Receiver, DVD Receiver, Game, Camcorder, DVD Combo, DHR (DVD HDD Recorder) or PC.
 - Set other signal sources (AV2, S-Video1, S-Video2, Component1, Component2, PC, DVI or HDMI) using the same method as listed above.



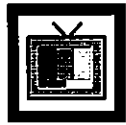
- 4 Press the EXIT button to exit.

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

Picture Control



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Customizing the Picture Settings	37
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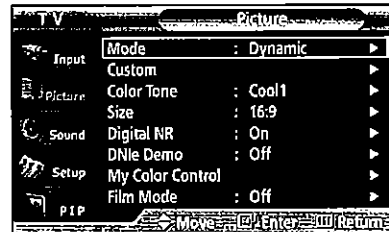


Changing the Picture Standard

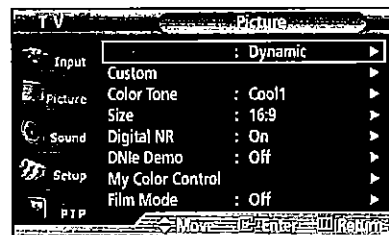
You can select the type of picture which best corresponds to your viewing requirements.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

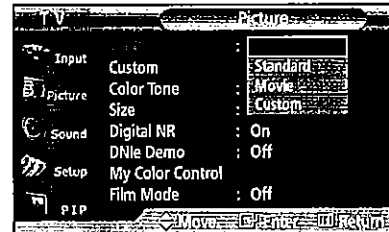
➤ Quick way to access the picture setting: Just press "P.MODE" button on the remote control.



- 2 Press the ENTER button again to select "Mode".

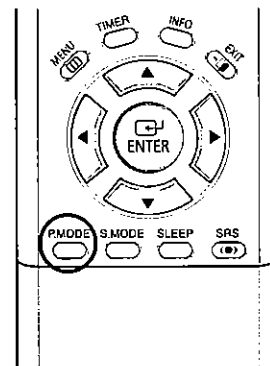


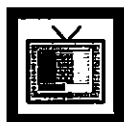
- 3 Press the ENTER button. Press the ▲ or ▼ button to select the desired picture mode (Dynamic, Standard, Movie or Custom), then press the ENTER button.



- 4 Press the EXIT button to exit.

- Choose Dynamic for viewing the PDP Monitor during the day or when there is bright light in the room.
- Choose Standard for the standard factory settings.
- Choose Movie when viewing the movie.
- Choose Custom if you want to adjust the settings according to personal preference (see "Customizing the Picture Settings", page 37).



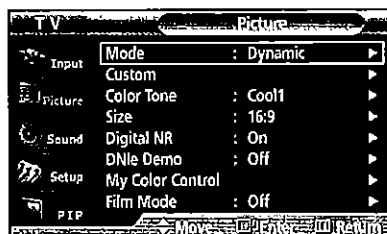


Plasma Display

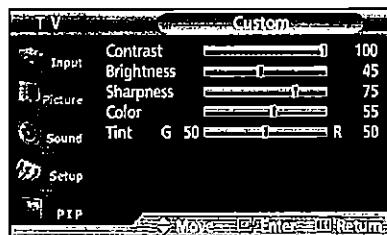
Customizing the Picture Settings

You can use the on-screen menus to change the "Contrast", "Brightness", "Sharpness", "Color", "Tint", and "Color Tone" according to personal preference. You can select "Standard" which automatically recalls your personalized picture settings.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ENTER button again to select "Custom".



- 3 Press the ENTER button. Press the ▲ or ▼ button to select a particular option (Contrast, Brightness, Sharpness, Color, or Tint), then press the ENTER button.

Press the ◀ or ▶ button to decrease or increase the value of a particular item.

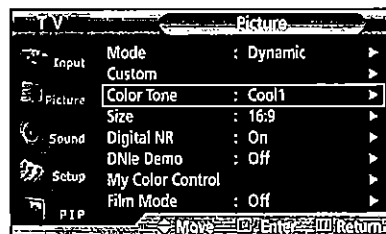
- You can also select these options (Contrast, Brightness, Sharpness, Color, or Tint) by pressing the ▲ or ▼ button.



Note

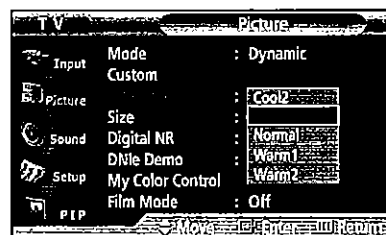
- "Tint" doesn't operate in PC, DVI, HDMI or any Component modes.

- 5 Press the ENTER button to return to "Picture" menu.
Press the ▲ or ▼ button to select "Color Tone", then press the ENTER button.



- 6 Press the ▲ or ▼ button to select a particular option (Cool2, Cool1, Normal, Warm1, or Warm2), then press the ENTER button.

Press the EXIT button to exit.





Plasma Display

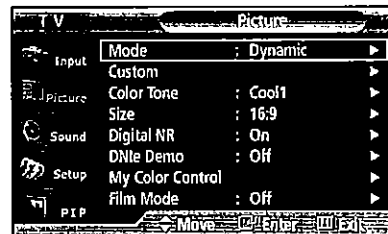
Viewing the DNle Demonstration

This PDP Monitor includes the DNle function so as to provide a high visual quality.

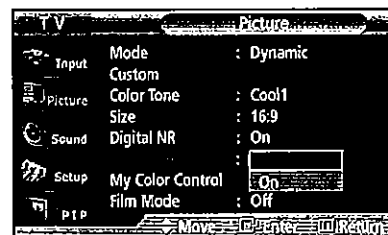
If you set DNle Demo to On, you can view the applied DNle and normal pictures on the screen, for demonstration purposes. Using this function, you can view the difference in the visual quality.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

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

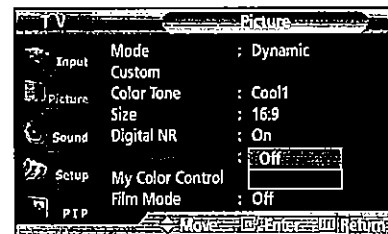


- 2 Press the ▲ or ▼ button to select "DNle Demo", then press the ENTER button.

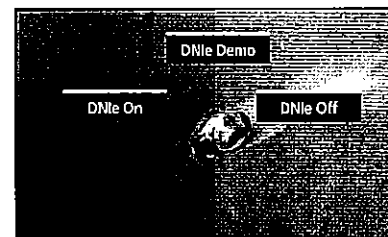


- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

- Off : Switches off the DNle Demo mode.
- On : Switches on the DNle Demo mode.

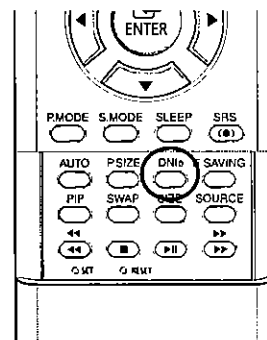


- 4 Press the EXIT button to exit.



Note

- DNle™ (Digital Natural Image engine) **DNle™**
This feature brings you more a detailed image with 3D noise reduction and detail, contrast and white enhancement.



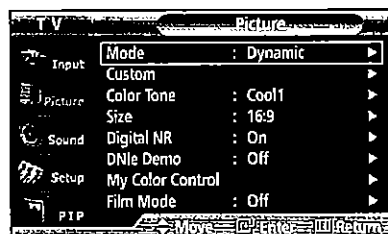


Changing the Screen Size

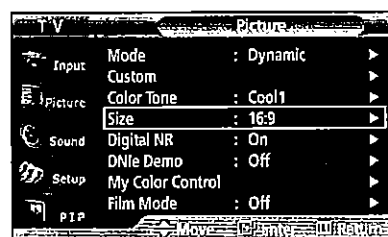
Screen size selection depends on the type of video input.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.

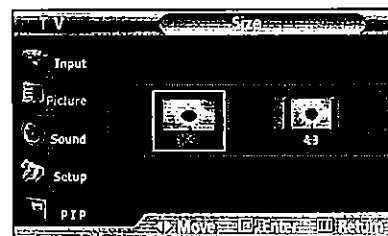
➤ Quick way to change the Screen size: Just press "P.SIZE" button under the cover of the remote control.



- 2 Press the ▲ or ▼ button to select "Size", then press the ENTER button.



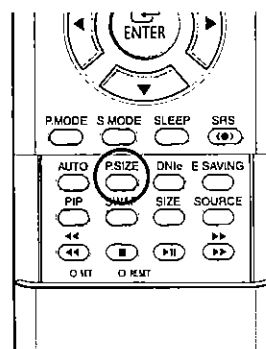
- 3 Press the ▲ or ▼ button to select the screen size you want, then press the ENTER button.



- 4 Press the EXIT button to exit.

Notes

- If you watch a still image or the 4:3 (Normal) mode for a long time (over 2 hours), an image may be burned onto the screen.
- View the PDP Monitor in 16:9 mode as much as possible.
- 16:9 (Wide) : Sets the picture to 16:9 wide mode.
- 4:3 (Normal) : Sets the picture to 4:3 normal mode.

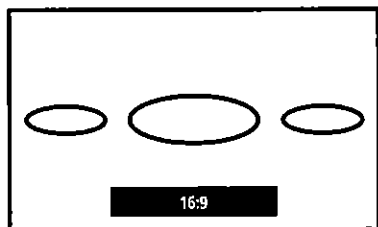


PLasma Display

When you press the P.SIZE button on the remote control, the PDP Monitor's screen mode should appear in sequence. The screen displays in this order: 16:9, 4:3.

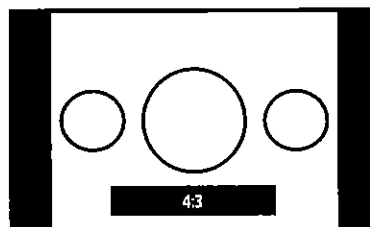
16:9

Sets the picture to 16:9 wide mode.



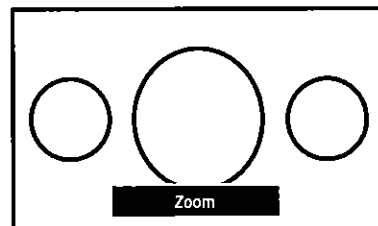
4:3

Sets the picture to 4:3 normal mode.



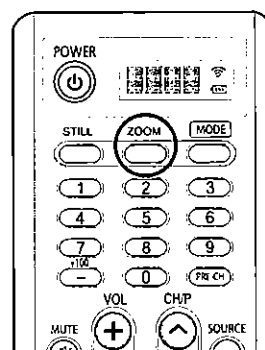
Zoom

Magnifies the size of the picture on the screen.



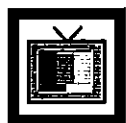
Positioning and Sizing the screen using Zoom

- Resizing the screen using the Zoom enables the positioning and sizing of the screen to up/down direction using the ▲ or ▼ button as well as the screen size.
- Move the screen up/down using the ▲ or ▼ button after selecting the  by pressing the ◀ or ▶ button.
- Resize the screen vertically using the ▲ or ▼ button after selecting the  by pressing the ◀ or ▶ button. (Pressing the ▲ button extends it upward and pressing the ▼ button extends it downward.)
- Screen enlargement operates only in Video/S-Video/Component1,2 input modes.
- PC mode prevent the screen enlargement function.



Note

- If you change the picture size when PIP is On, PIP will automatically be turned Off.



Viewing the Picture-in-Picture

Selecting the PIP Screen

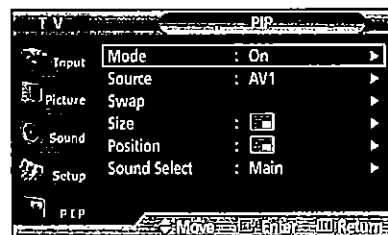
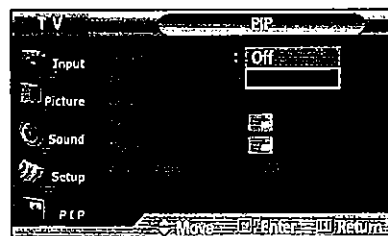
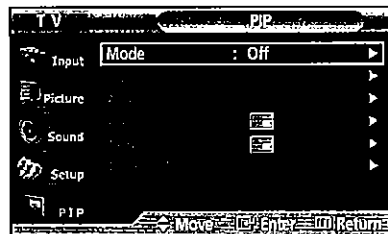
- 1 Press the MENU button. Press the ▲ or ▼ button to select "PIP", then press the ENTER button.

► Quick way to access the PIP mode: Just press "PIP" button under the cover of the remote control.

- 2 Press the ENTER button again to select "Mode".

- 3 Press the ENTER button, then press the ▲ or ▼ button to select "On". The PIP image will appear in the corner of the screen.
 - Pressing the ▲ or ▼ button will alternate between "On" and "Off".
 - Press the ENTER button.

- 4 Press the EXIT button to exit.



PIP Settings

○ : PIP and swap operate
X : PIP doesn't operate

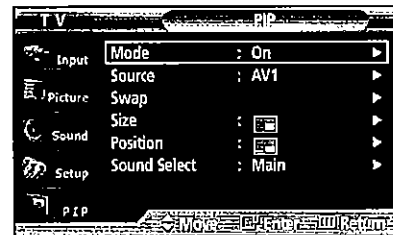
Main screen PIP screen	AV1	AV2	S-Video1	S-Video2	Component1	Component2	PC	DVI	HDMI
AV1	X	X	○	○	○	○	○	○	○
AV2	X	X	○	○	○	○	○	○	○
S-Video1	○	○	X	X	○	○	○	○	○
S-Video2	○	○	X	X	○	○	○	○	○
Component1	X	X	X	X	X	X	X	X	X
Component2	X	X	X	X	X	X	X	X	X
PC	X	X	X	X	X	X	X	X	X
DVI	X	X	X	X	X	X	X	X	X
HDMI	X	X	X	X	X	X	X	X	X

Plasma Display

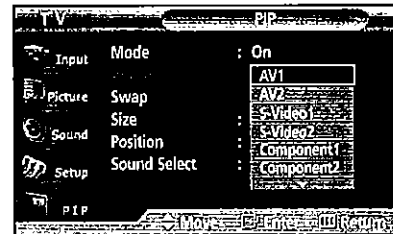
Selecting an External Signal

You can use PIP to view a signal from an external source, such as a VCR. Set the PIP Mode to On. (Refer to page 42)

- 1 Press the MENU button. Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Source", then press the ENTER button.



- 3 Press the ▲ or ▼ button to cycle through all of the available signal sources: "AV1", "AV2", "S-Video1", "S-Video2", "Component1", "Component2", "PC", "DVI" or "HDMI". Press the ENTER button.

Note

- The signal from these inputs will not appear if you have not connected any equipment to the PDP Monitor's respective input jacks.

- 4 Press the EXIT button to exit.

Note

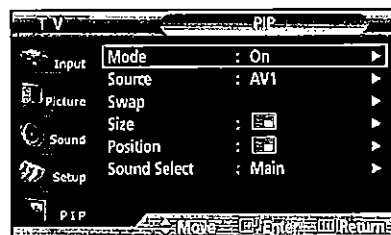
- The same source cannot be selected on both the main and sub screens.

Swapping the Contents of the PIP and Main Image

Set the PIP Mode to On. (Refer to page 42)

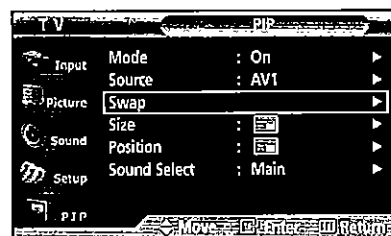
- 1 Press the MENU button. Press the ▲ or ▼ button to select "PIP", then press the ENTER button.

➤ Quick way to change the size of the PIP window : Just press "SWAP" button under the cover of the remote control.

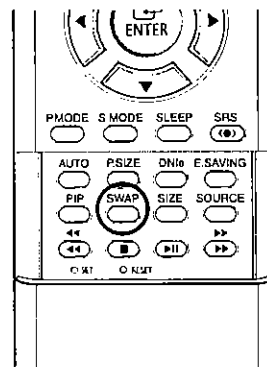


- 2 Press the ▲ or ▼ button to select "Swap", then press the ENTER button.

- The image in the PIP window will appear on the main screen, and vice versa. (Refer to page 45)



- 3 Press the EXIT button to exit.



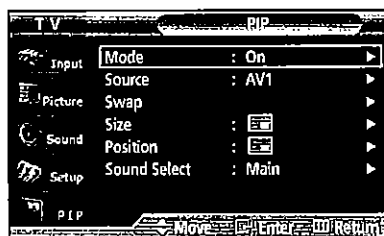
Plasma Display

Changing the Size of the PIP Window

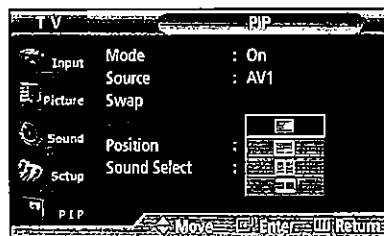
Set the PIP Mode to On. (Refer to page 42)

- 1 Press the MENU button. Press the ▲ or ▼ button to select "PIP", then press the ENTER button.

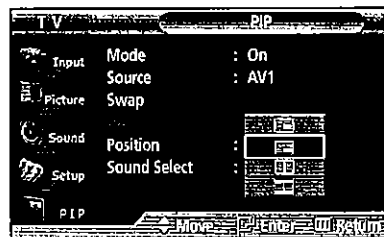
➤ Quick way to change the size of the PIP window : Just press "SIZE" button under the cover of the remote control.



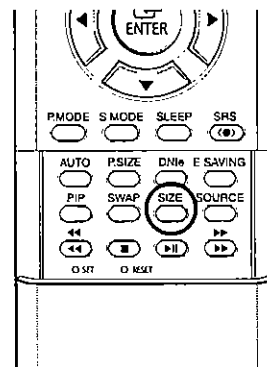
- 2 Press the ▲ or ▼ button to select "Size", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select option ([] - [] - [] - []) you want, then press the ENTER button.



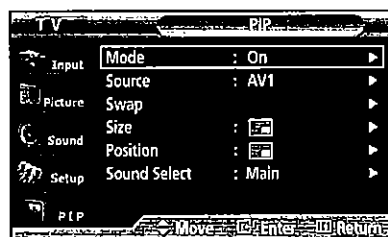
- 4 Press the EXIT button to exit.



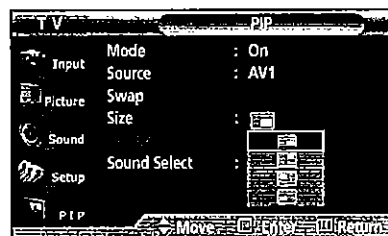
Changing the Location of the PIP Image

Set the PIP Mode to On. (Refer to page 42)

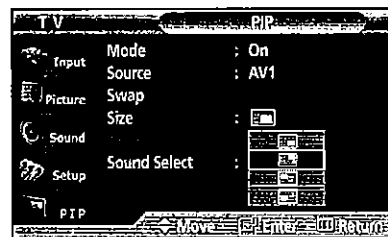
- 1 Press the MENU button. Press the ▲ or ▼ button to select "PIP", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Position", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select the PIP position (□ - □ - □) you want, then press the ENTER button.



- 4 Press the EXIT button to exit.

Note

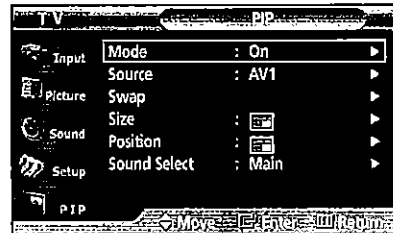
- In □ and □ modes, Position cannot be selected.

Plasma Display

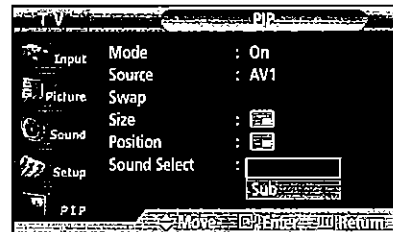
Changing the PIP Sound Select

Set the PIP Mode to On. (Refer to page 42)

- 1 Press the MENU button. Press the ▲ or ▼ button to select "PIP", then press the ENTER button.

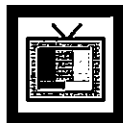


- 2 Press the ▲ or ▼ button to select "Sound Select", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Main" or "Sub", then press the ENTER button.

- 4 Press the EXIT button to exit.



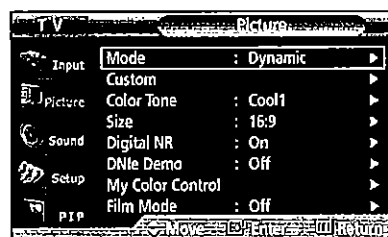
Setting the My Color Control Mode

My Color Control allows you to adjust colors according to your preference, by adjusting skin, sky, and grass tones using the predefined settings (Pink, White, Standard, Custom, Red, Green, Blue, Yellow) without affecting other colors on the screen.

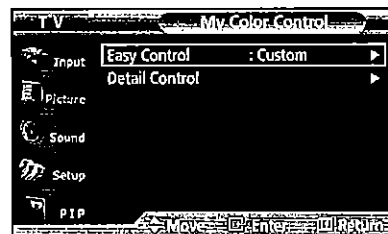
Using the My Color Control Function in the Easy Control Menu

Skin, sky and grass tones are easily adjustable to suit your preferences.

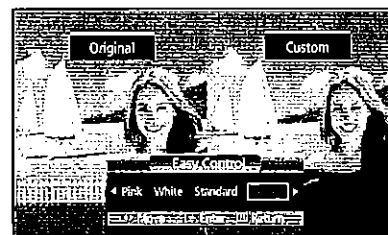
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.

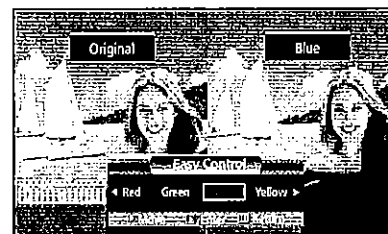


- 3 Press the ENTER button to select "Easy Control".



- 4 Press the ◀ or ▶ button to select the setting among the various picture settings. The original picture (before adjustment) is shown on the left side, while the selected mode is shown on the right side.

➤ There are eight My Color Control modes: Pink, White, Standard, Custom, Red, Green, Blue, Yellow.



- 5 Press the EXIT button to exit.

Plasma Display

My Color Control Mode Characteristics

Using My Color Control mode, you can enjoy vivid colors as shown below.



➤ Emphasizes Warm Skin Colors.



➤ Emphasizes Whites.



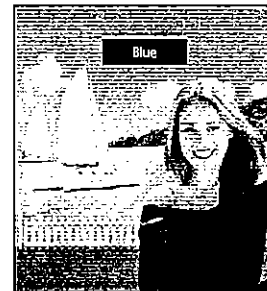
➤ Standard Picture.



➤ Emphasizes Reds.



➤ Emphasizes Mild Greens.



➤ Emphasizes Clear Blues.



➤ Emphasizes Yellows.

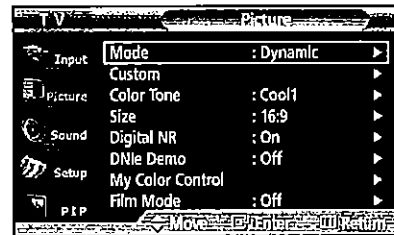
Note

- Images shown above may differ from the actual adjustment on the screen. These images are presented for illustrative purposes.

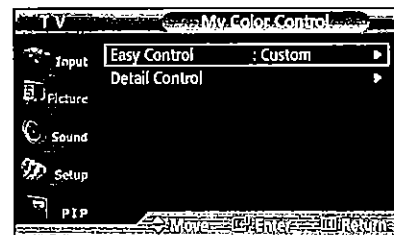
My Color Control Custom Settings

Users can adjust the 6 My Color Control colors (Red, Green, Blue, Yellow, Pink and White).

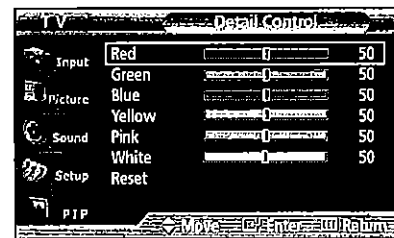
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "My Color Control", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Detail Control", then press the ENTER button.



- 4 Press the ▲ or ▼ button to select the desired color and then press the ENTER or ► button.



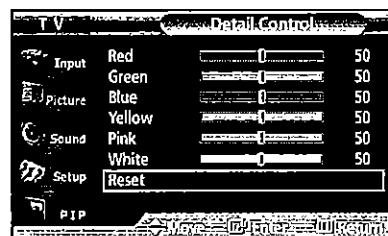
- 5 Press the ◀ or ▶ button to adjust the settings, then press the ENTER button.

- Press the ▲ or ▼ button to select other colors.

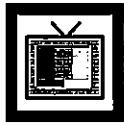
Continued...

Plasma Display

- 6 Press the ▲ or ▼ button to select "Reset", then press the ENTER button.
The previously adjusted My Color Control Colors will be reset to the factory defaults.



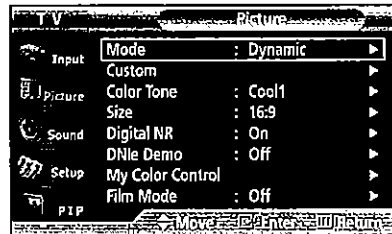
- 7 Press the EXIT button to exit.



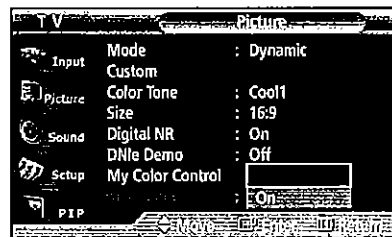
Setting the Film Mode

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

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Film Mode", then press the ENTER button.



- 3 Press the ENTER button, then press the ▲ or ▼ button to select "Off" or "On".

- 4 Press the EXIT button to exit.

Notes

- Automatically senses and processes film signals from all sources and adjusts the picture for optimum quality.
- Available in AV, S-Video, and Component (480i) modes.
- Unavailable in PC, DVI and HDMI mode.

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

Sound Control



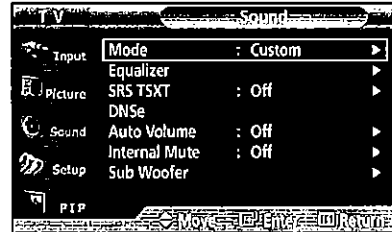
Customizing the Sound	54
Using Automatic Sound Settings	55
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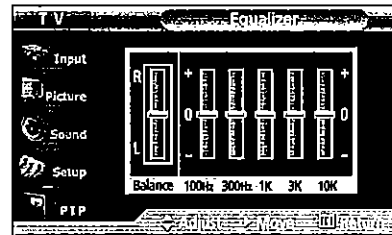
Customizing the Sound

The sound settings can be adjusted to suit your personal preferences.
(Alternatively, you can use one of the "automatic" settings. See next page.)

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Equalizer", then press the ENTER button.



- 3 Press the ◀ or ▶ button to select a particular frequency to adjust. Press the ▲ or ▼ button to increase or decrease the level of the particular frequency.

- 4 Press the EXIT button to exit.

Notes

- If you make any changes to the equalizer settings, the sound mode is automatically switched to the custom mode.
- **L/R Sound Balance Adjustment**
To adjust the sound balance of the L/R speakers.
- **Bandwidth Adjustment (100Hz, 300Hz, 1K, 3K, 10K)**
To adjust the level of different bandwidth frequencies.

PLasma Display

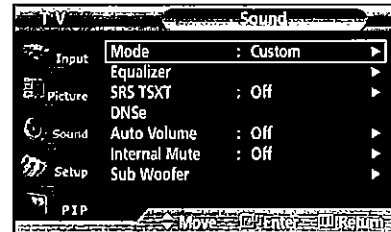


Using Automatic Sound Settings

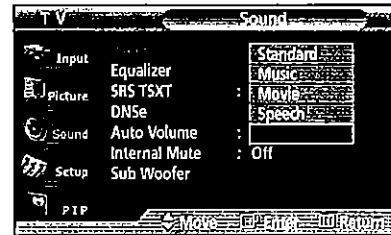
Your PDP Monitor has automatic sound settings ("Standard", "Music", "Movie", and "Speech") that are preset at the factory. Or, you can select "Custom," which automatically recalls your personalized sound settings.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

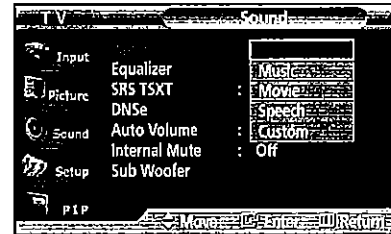
➤ Quick way to access the Sound mode: Just press "S.MODE" button on the remote control.



- 2 Press the ENTER button to select "Mode".

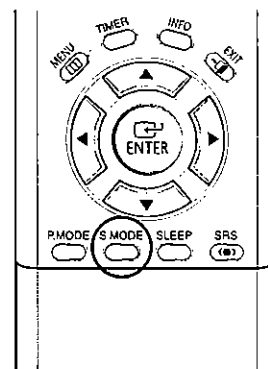


- 3 Press the ▲ or ▼ button to select "Standard", "Music", "Movie", "Speech", or "Custom" sound setting, then press the ENTER button.



- 4 Press the EXIT button to exit.

- Choose Standard for the standard factory settings.
- Choose Music when watching music videos or concerts.
- Choose Movie when watching movies.
- Choose Speech when watching a show that is mostly dialog (i.e., news).
- Choose Custom to recall your personalized settings (see "Customizing the Sound", page 54).



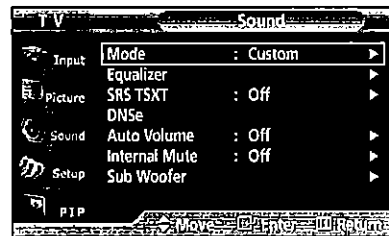


Setting the TruSurround XT

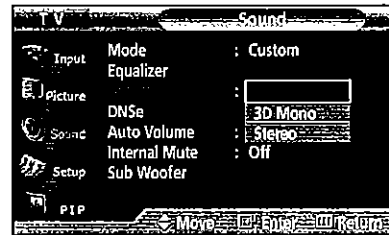
TruSurround XT is a patented SRS technology that solves the problem of playing 5.1 multichannel content over two speakers. TruSurround delivers a compelling, virtual surround sound experience through any two-speaker playback system, including internal television speakers. It is fully compatible with all multichannel formats.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

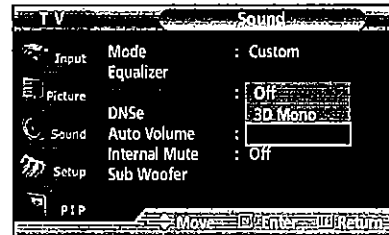
➤ Quick way to access the SRS TSXT menu: Just press "SRS" button on the remote control repeatedly to select one of the settings.



- 2 Press the ▲ or ▼ button to select "SRS TSXT", then press the ENTER button.

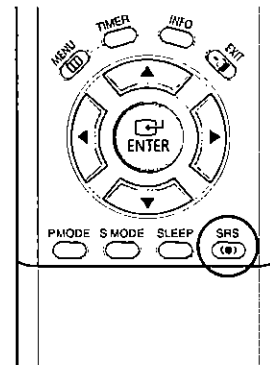


- 3 Press the ▲ or ▼ button to change the setting (Off, 3D Mono or Stereo), then press the ENTER button.



- 4 Press the EXIT button to exit.

TruSurround XT, SRS and (●) Symbol are trademarks of SRS Labs, Inc.
TruSurround XT technology is incorporated under license from SRS Labs, Inc.



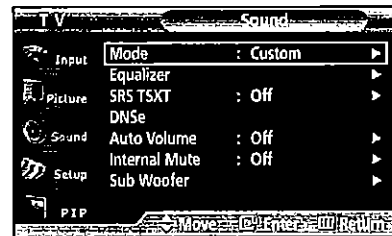


Plasma Display

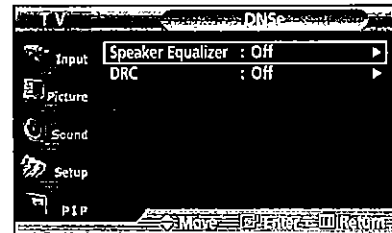
DNSe (Digital Natural Sound engine)

DNSe enhances the sound quality, automatically controls output, and prevents sound distortion.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

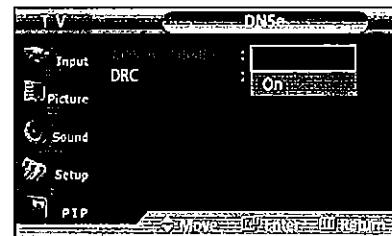


- 2 Press the ▲ or ▼ button to select "DNSe", then press the ENTER button.

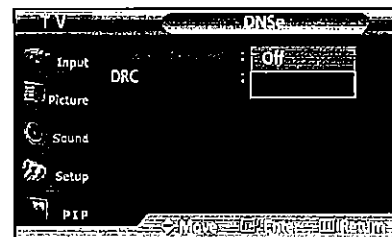


- 3 Press the ENTER button to select "Speaker Equalizer" or "DRC", then press the ENTER button.

- Speaker Equalizer: Compensates for any incomplete regeneration characteristics of the speakers and provides sound close to the original sound.
- DRC (Dynamic Range Control): Controls the power automatically and prevents distortion at high volume.



- 4 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.



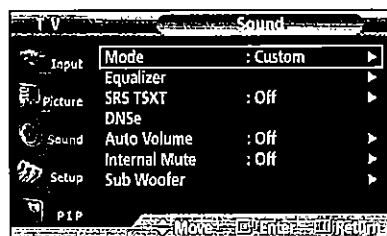
- 5 Press the EXIT button to exit.



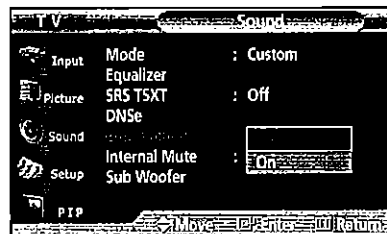
Using the Auto Volume

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.

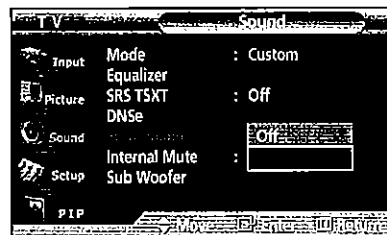
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Auto Volume", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.



- 4 Press the EXIT button to exit.

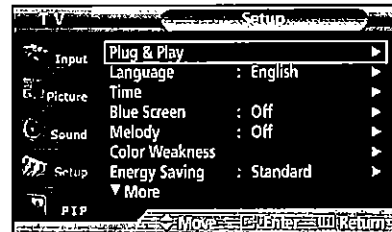
Plasma Display



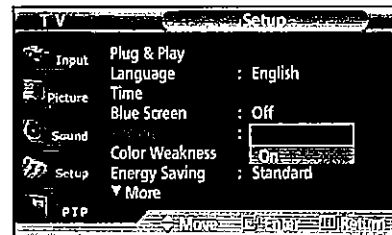
Setting the On/Off Melody

A melody sound can be set to come on when the PDP Monitor is powered on or off.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

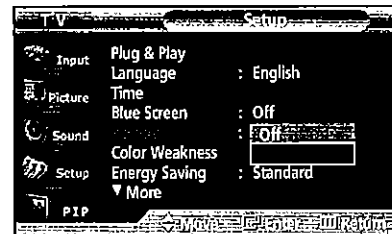


- 2 Press the ▲ or ▼ button to select "Melody", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

- The default value is "On".



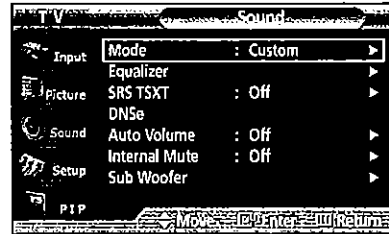
- 4 Press the EXIT button to exit.



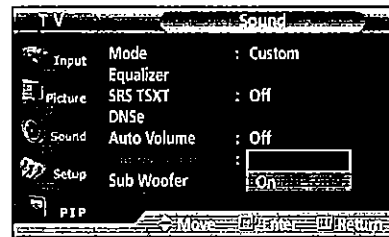
Selecting the Internal Mute

Sound output from the PDP Monitor speakers is muted.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

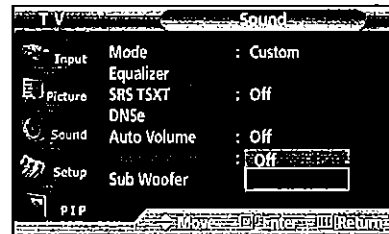


- 2 Press the ▲ or ▼ button to select "Internal Mute", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "On", then press the ENTER button.

- Pressing the ▲ or ▼ button will alternate between "On" and "Off".



- 4 Press the EXIT button to exit.

Notes

- The VOL +, VOL - and MUTE buttons do not operate when the Internal Mute is set to On.

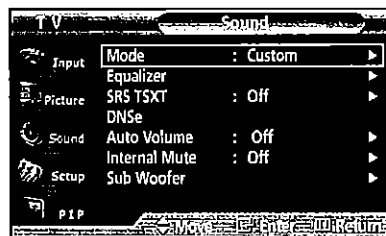


PLasma Display

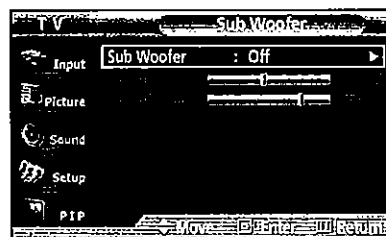
Setting up the Sub Woofer Output

After connecting a Sub Woofer Speaker (sold separately), you may set the activation, volume or cut-off frequency.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Sound", then press the ENTER button.

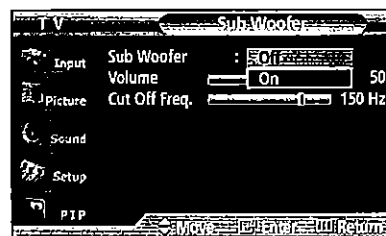


- 2 Press the ▲ or ▼ button to select "Sub Woofer", then press the ENTER button.



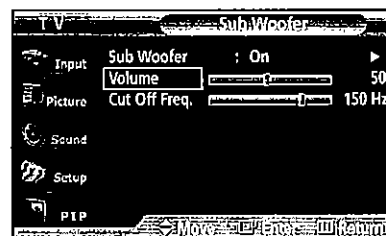
- 3 Press the ENTER button. Press the ▲ or ▼ button to select "On", then press the ENTER button.

- Pressing the ▲ or ▼ button will alternate between "On" and "Off".



- 4 Press the ▲ or ▼ button to select "Volume" or "Cut Off Freq.", then press the ◀ or ▶ button to change the value of the item.

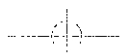
- Volume : adjust the volume of the Sub Woofer.
- Cut Off Freq. : adjust the Frequency in units of for the best bass response in your room.



- 5 Press the EXIT button to exit.

Note

- Refer to page 24 for SubWoofer connection.



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

Connecting a PC and Operation



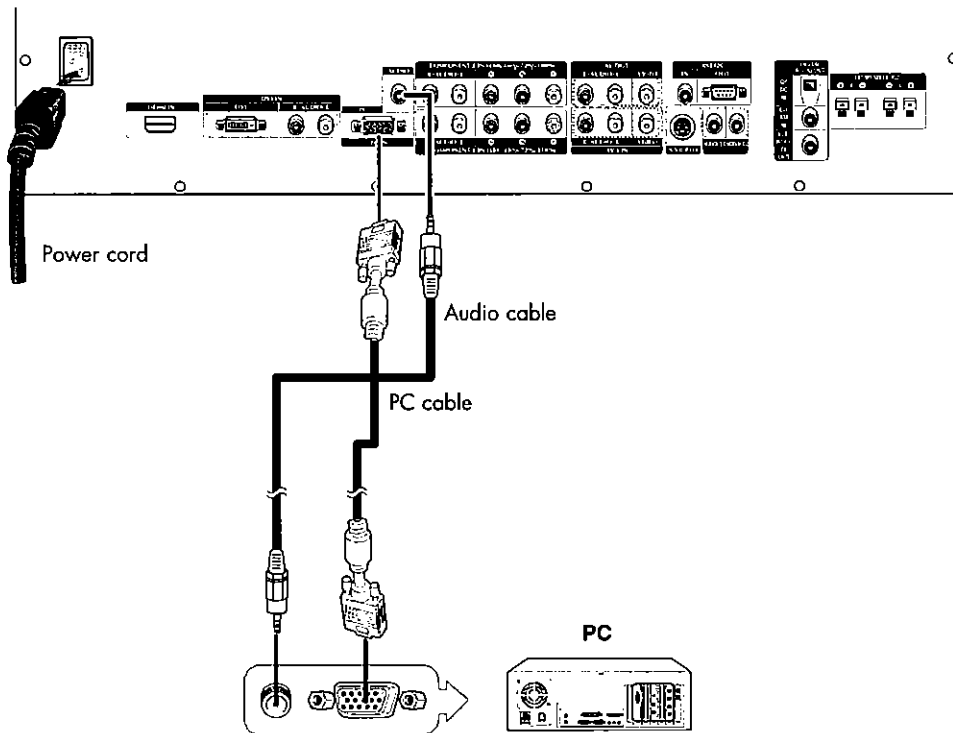
Connecting a PC.....	64
Changing the Position of the Image.....	68
Picture Quality Adjustment	69
Image Reset	72



Connecting a PC

Connection to a Macintosh computer may require an adapter.

PDP Monitor Rear Panel



Connecting a PC (15p D-SUB) to the PDP Monitor

- 1 Connect a PC cable between the PC Output jack on the PC and the RGB input jack (PC IN) on the PDP Monitor.
- 2 Connect a Audio cable between the Audio jack on the PC and the Audio input jacks (AUDIO) on the PDP Monitor.

Notes

- Please be sure to match the color coded input terminals and cable jacks.
- A PC will not operate when connected with a HDMI or DVI cable.

To watch the PC screen:

1. Turn on your PDP Monitor.
2. Press the SOURCE button on the remote control or the SOURCE button on the side panel to select "PC".
3. Turn on your 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 68 to 71.)

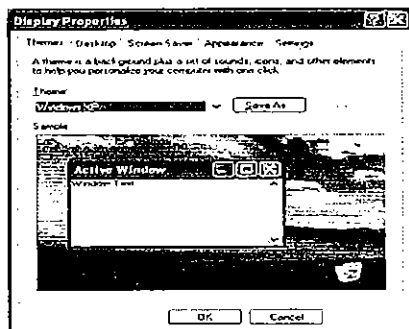
Plasma Display

Setting up Your PDP Monitor (Plug and Play)

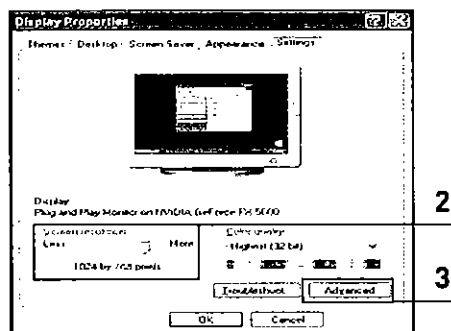
Our adoption of the new VESA® Plug and Play solution eliminates complicated and time consuming setup. It allows you to install your monitor in a Plug and Play compatible system, without the usual setup hassles and confusion. Your PC system can easily identify and configure itself for use with your PDP Monitor. This PDP 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)

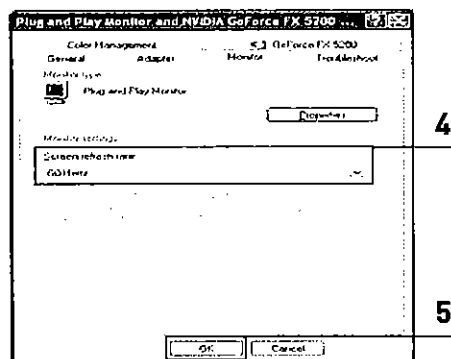
The Windows display-settings for a typical computer are shown below. But the actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. But even if your actual screens look different, the same, basic set-up information will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



1. Right click the mouse on the Windows Desktop, then click on Properties.
The Display Dialog-Box will be displayed.



2. Click on Settings, then set the Display Mode with reference to the Display Modes Table.
You do not need to change the Colors settings.
3. Click on Advanced. A new settings dialog box will be displayed.
4. Click on the Monitor tab, then set the Screen Refresh Rate with reference to the Display Modes Table. Set the Vertical Frequency and Horizontal Frequency individually if you can do so instead of setting the Screen Refresh Rate.



5. Press the OK button, close the window, then press the OK button on the Display Registration Information window. Automatic re-booting may commence at this moment.
6. Shutdown the PC, and connect it to your PDP Monitor. (See page 64)

- The actual screens on your PC may look different, depending on your particular version of Windows and the type of your PC.
- When you use your PDP Monitor as a PC monitor, it supports Colors up to 32 bits.
- In this case, the display on the PDP Monitor may look different depending on your particular version of Windows or the PC manufacturer.
- When connecting a PC you must set it to the display settings that are supported by the PDP Monitor.
Otherwise, the message Out of input range will be displayed.

PLasma Display

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	Resolution (Dot X Line)	Vertical Frequency(Hz)	Horizontal Frequency(KHz)	Vertical Polarity	Horizontal Polarity
VGA	640 X 350	70	31.5	N	P
	720 X 400	70	31.5	P	N
	640 X 480	60	31.5	N	N
		72	37.9	N	N
		75	37.5	N	N
SVGA	800 X 600	56	35.1	P/N	P/N
		60	37.9	P	P
		72	48.1	P	P
		75	46.9	P	P
XGA	1024 X 768	60	48.4	N	N
		70	56.5	N	N
		75	60	P	P
SXGA	1280 X 1024	60	64	P	P
		75	80	P	P
WUXGA	1920 X 1080 (Reduced Blanking)	60	66.6	N	P

P: Positive / N : Negative

- The interlace mode is not supported.
- The PDP Monitor operates abnormally if a non-standard video format is selected.
- The table above conforms to IBM/VESA regulations and is based on using the Analog Input.

Notes

- The PC text quality is optimum in WUXGA mode (1920 x 1080p@60Hz).
- When this PDP Monitor 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 Monitor.
- If a vertical and horizontal frequency-select mode exists, select 60Hz (vertical) and 48.4KHz (horizontal).
- In some cases, abnormal signals (such as stripes) might appear on the PDP Monitor screen when the PC power is turned off (or if the PC is disconnected). If so, press the SOURCE button on the remote control or SOURCE button on the front panel 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).



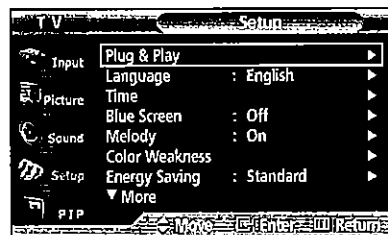
Changing the Position of the Image

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

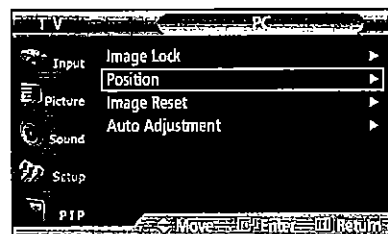
Preset:

- Press the SOURCE button to select "PC."

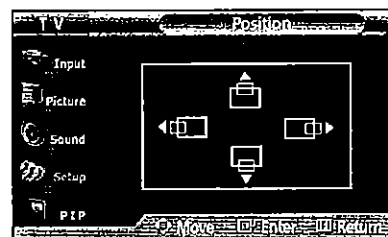
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



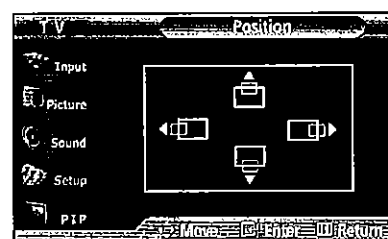
- 2 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Position", then press the ENTER button.



- 4 Adjust the position of screen by pressing the ▲/▼/◀/▶ button.



- 5 Press the EXIT button to exit.



Plasma Display

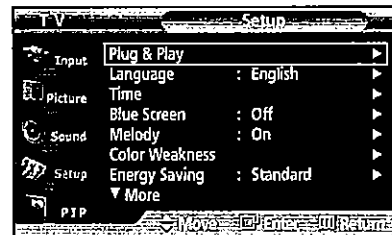
Picture Quality Adjustment

Picture Automatic Adjustment

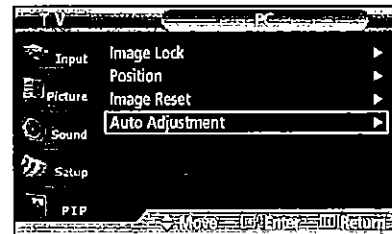
Preset:

- Press the SOURCE button to select "PC".

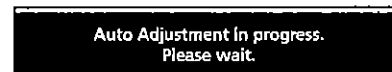
- Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- Press the ▲ or ▼ button to select "PC", then press the ENTER button.



- Press the ▲ or ▼ button to select "Auto Adjustment", then press the ENTER button. The message "Auto Adjustment in progress. Please wait." appears on the screen and the picture adjustments are automatically activated.

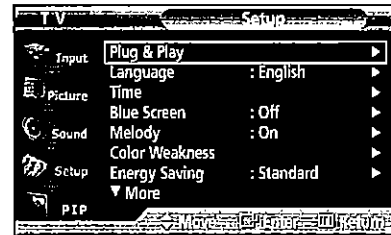


Coarse Adjustment

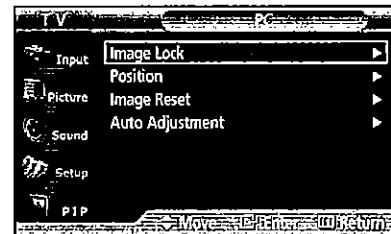
Preset:

- Press the SOURCE button to select "PC".

- Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- Press the ▲ or ▼ button to select "PC", then press the ENTER button.



- Press the ENTER button to select "Image Lock".



- Press the ENTER button again to select "Coarse". Remove picture noise (vertical stripes) on the screen by pressing the ◀ or ▶ button. (If Coarse is not set properly, vertical stripes will appear on the screen.)

- Press the ▲ or ▼ button to select another item.



- Press the EXIT button to exit.

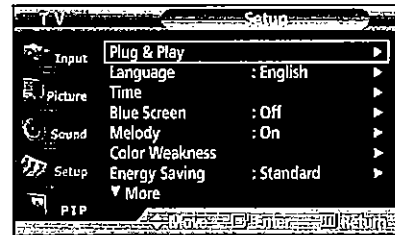
Plasma Display

Fine Tuning (Fine)

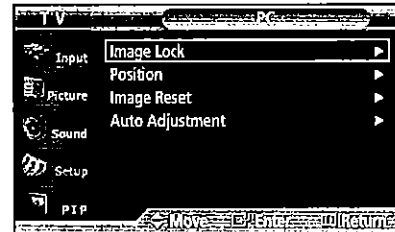
Preset:

- Press the SOURCE button to select "PC".

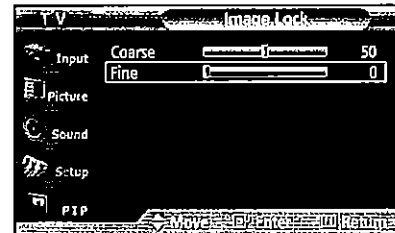
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "PC", then press the ENTER button.



- 3 Press the ENTER button to select "Image Lock".



- 4 Press the ▲ or ▼ button to select "Fine", then press the ENTER button.
Remove picture noise on the screen by pressing the ◀ or ▶ button. (If Fine is not set properly, noise will appear on the screen.)

- Press the ▲ or ▼ button to select another item.

- 5 Press the EXIT button to exit.





Image Reset

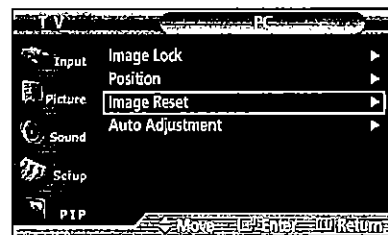
Preset:

- Press the SOURCE button to select "PC".

- Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- Press the ▲ or ▼ button to select "PC", then press the ENTER button.



- Press the ▲ or ▼ button to select "Image Reset", then press the ENTER button. The message "Image reset is completed." appears on the screen.



- The previously adjusted settings will be reset to the factory defaults.

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

Time Setting

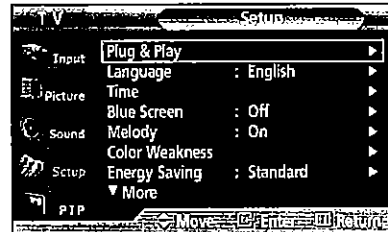
Setting the Clock	74
Setting the Sleep Timer	75
Setting the On/Off Timer	76



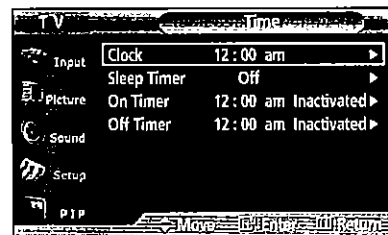
Setting the Clock

Setting the clock is necessary in order to use the various timer features of the PDP Monitor. Also, you can check the time while watching the PDP Monitor. (Just press the INFO button.)

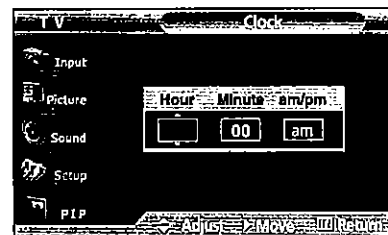
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



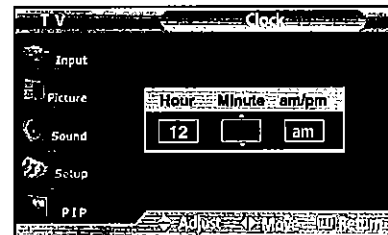
- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button.



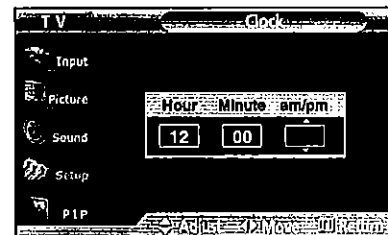
- 3 Press the ENTER button to select "Clock", then press the ▲ or ▼ button to select correct hour.



- 4 Press the ◀ or ▶ button to select "Minute", then press the ▲ or ▼ button to select correct minute.



- 5 Press the ◀ or ▶ button to select "am/pm", then press the ▲ or ▼ button to select the proper time of day (am or pm). Press the ENTER button.



- 6 Press the EXIT button to exit.

Notes

- The current time will appear every time you press the INFO button.
- You can set the Hour and Minute directly by pressing the number buttons on the remote control.



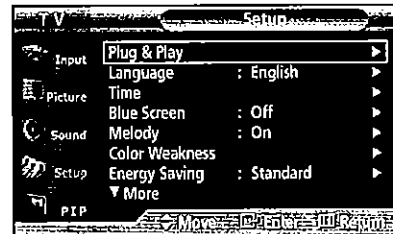
PLasma Display

Setting the Sleep Timer

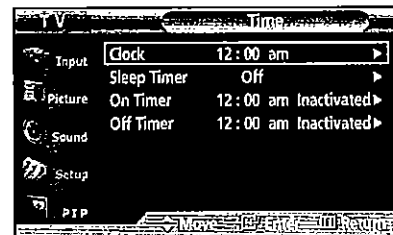
The sleep timer automatically shuts off the PDP Monitor after a preset time (from 30 to 180 minutes).

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

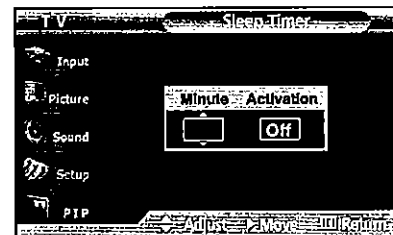
➤ Quick way to access the sleep timer setting: Just press "SLEEP" button on the remote control.



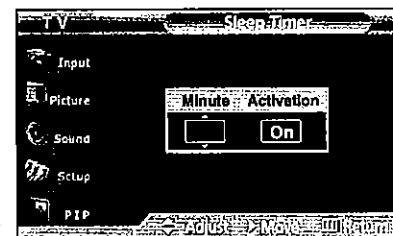
- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button.



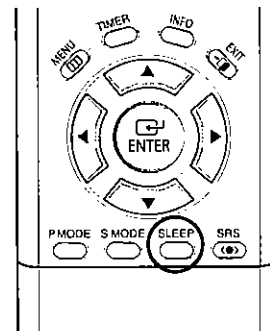
- 3 Press the ▲ or ▼ button to select "Sleep Timer", then press the ENTER button.



- 4 Press the ▲ or ▼ button to select the time interval for the PDP Monitor to stay on. The interval ranges from 30 to 180 minutes



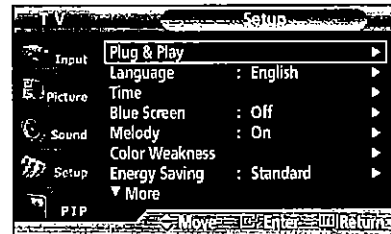
- 5 Press the EXIT button to exit.





Setting the On/Off Timer

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



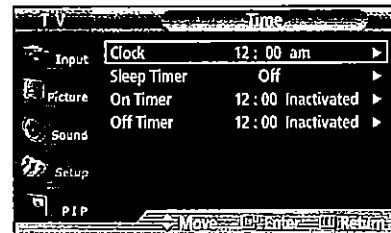
- 2 Press the ▲ or ▼ button to select "Time", then press the ENTER button.

Press the ▲ or ▼ button to select "On Timer", then press the ENTER button.
Press the ▲ or ▼ button to adjust "Hour", then press the ► button to move to the next step.
Set other items using the same method as above.

To activate "On Timer" with the setting entered, set Activation to "On" by pressing ▲ or ▼ button.

When finished, press the MENU button to return.

- The current time will appear every time you press the INFO button.
- You can set the hour and minute directly by pressing the number buttons on the remote control.

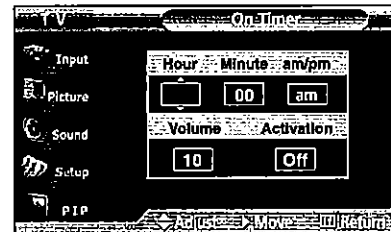


- 3 Press the ▲ or ▼ button to select "Off Timer", then press the ENTER button.
Press the ▲ or ▼ button to adjust "Hour", then press the ► button to move to the next step.
Set other items using the same method as above.

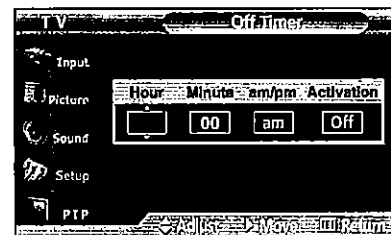
To activate "Off Timer" with the setting entered, set Activation to "On" by pressing ▲ or ▼ button.

When finished, press the ENTER button.

- You can set the hour and minute directly by pressing the number buttons on the remote control.



- 4 Press the EXIT button to exit.



Note

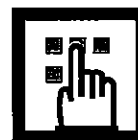
• Auto Power Off

When you set the timer "On", the PDP Monitor will eventually turn off, if no controls are operated for 3 hours after the PDP Monitor was turned on by the timer.

This function is only available in timer "On" mode and prevents overheating or leakage, which may occur if a PDP Monitor is on for too long (when you are on vacation, for example).

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

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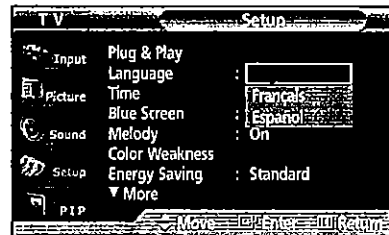


Selecting a Menu Language

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Language", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select the appropriate language: "English", "Français" or "Español". Press the ENTER button.



- 4 Press the EXIT button to exit.

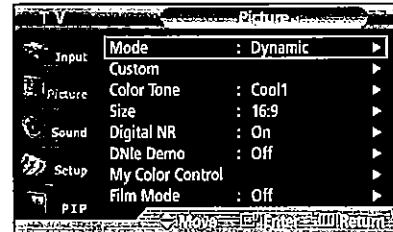


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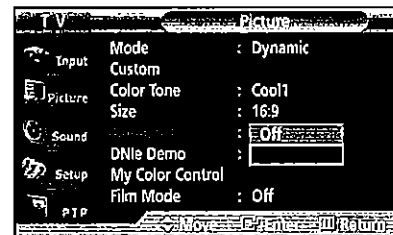
Digital Noise Reduction

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

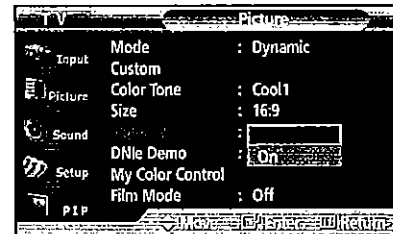
- 1 Press the MENU button. Press the ▲ or ▼ button to select "Picture", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Digital NR", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.



- 4 Press the EXIT button to exit.



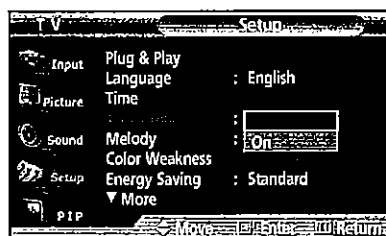
Setting the Blue Screen

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background. If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



- 2 Press the ▲ or ▼ button to select "Blue Screen", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "Off" or "On", then press the ENTER button.

Note

- Blue Screen is displayed when there is no signal from an external device in the External Mode, regardless of the Blue Screen Setting.



- 4 Press the EXIT button to exit.



Plasma Display

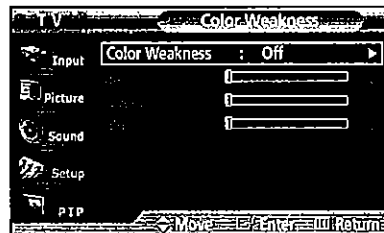
Using the Color Weakness Enhancement Option

This option adjusts the Red, Blue or Green color to enhance the image according to the user's particular color weakness.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

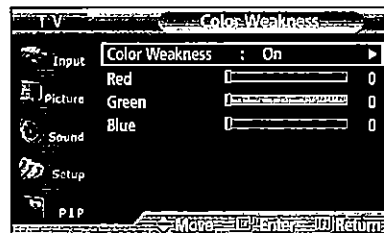


- 2 Press the ▲ or ▼ button to select "Color Weakness", then press the ENTER button.



- 3 Press the ENTER button. Press the ▲ or ▼ button to select "On", then press the ENTER button. You will also see the items "Red", "Green", and "Blue".

- Pressing the ▲ or ▼ button will alternate between "On" and "Off".



- 4 Press the ▲ or ▼ button to select the item you wish to change, then press the ENTER button. Press the ◀ or ▶ button to change the value of the item, then press the ENTER button.

Press the ▲ or ▼ button to select another item.



- 5 Press the EXIT button to exit.

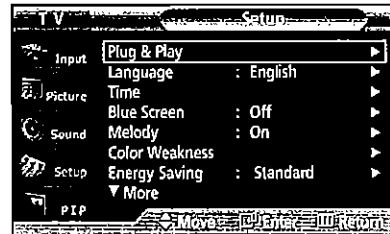


Using the Energy Saving Feature

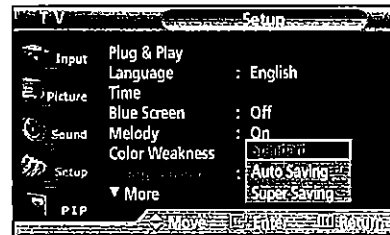
This feature adjusts the screen brightness automatically depending on the surrounding lighting conditions.

- 1 Press the MENU button. Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

➤ Quick way to select Energy Saving: Just press "E.SAVING" button under the cover of the remote control.

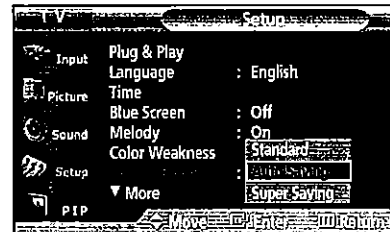


- 2 Press the ▲ or ▼ button to select "Energy Saving", then press the ENTER button.

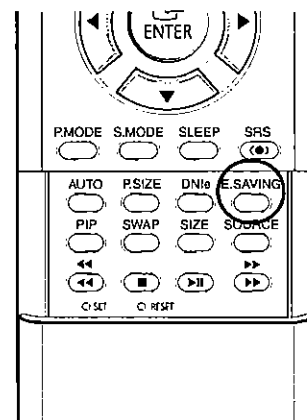


- 3 Press the ▲ or ▼ button to select option (Standard, Auto Saving or Super Saving) you want, then press the ENTER button.

- Standard : Operates in standard mode regardless of the surrounding illumination.
- Auto Saving : Automatically adjusts to the surrounding illumination.
- Super Saving : Enters maximum power saving mode regardless of the surrounding illumination.



- 4 Press the EXIT button to exit.



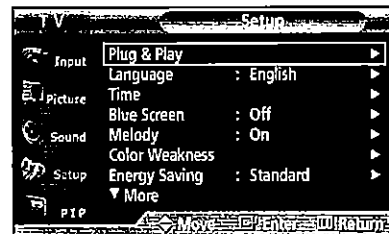


Plasma Display

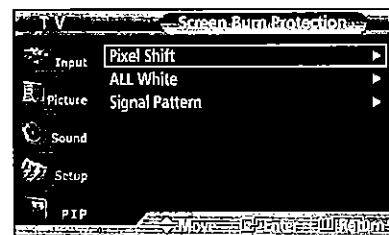
Preventing Screen Burn-in

To reduce the possibility of screen burn, this unit is equipped with screen burn prevention technology. This technology enables you to set picture movement up/down (Vertical Line) and side to side (Horizontal Dot). The Time setting allows you to program the time between movement of the picture in minutes.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

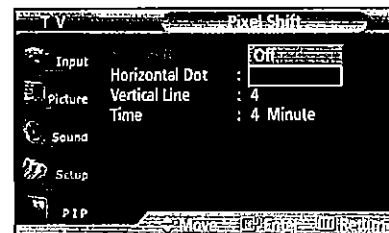


- 2 Press the ▲ or ▼ button to select "Screen Burn Protection", then press the ENTER button.



- 3 Press the ENTER button to select "Pixel Shift", then press the ENTER button.

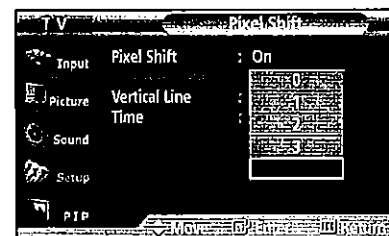
- Pressing the ▲ or ▼ button will alternate between "On" and "Off".
You will also see the items "Horizontal Dot", "Vertical Line" and "Time".
- Pixel Shift: Using this function, you can minutely move pixels on the PDP in horizontal or vertical direction to prevent after image on the screen.



- 4 Press the ▲ or ▼ button to select the item you wish to change, then press the ENTER button.
Press the ▲ or ▼ button to change the value of the item, then press the ENTER button.

- Optimum condition for pixel shift;

Horizontal Dot	4
Vertical Line	4
Time(Minute)	4



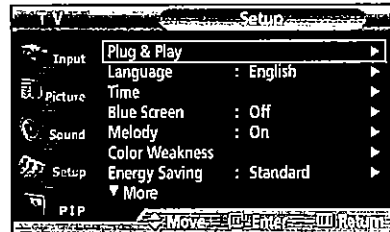
- 5 Press the EXIT button to exit.



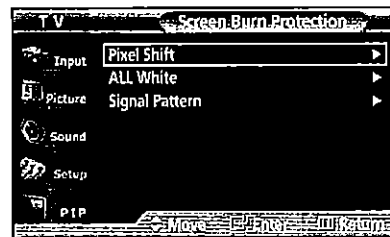
Reducing the Effects of Screen Burn

If screen burn has occurred, you can select a white screen or signal pattern (rolling screen) to help remove screen burn artifacts.

- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.

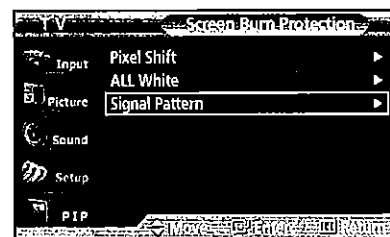
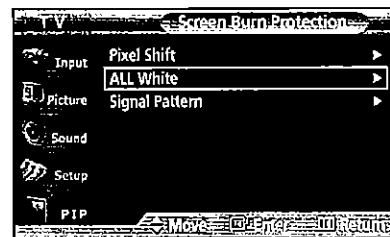


- 2 Press the ▲ or ▼ button to select "Screen Burn Protection", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "ALL White" or "Signal Pattern", then press the ENTER button.

- **ALL White:** This function removes after-images on the screen by changing the color of pixels to white. Use this function when there are remaining after-images or symbols on the screen especially when you displayed a still image on the screen for a long time.
- **Signal Pattern:** This function removes after images on the screen by moving all the pixels on the PDP according to a pattern. Use this function when there are remaining after-images or symbols on the screen especially when you displayed a still image on the screen for a long time.



- 4 Press the EXIT button to exit.

Notes

- To remove after-images on the screen, use either the "ALL White" or "Signal Pattern" function. Although both functions remove after-images on the screen, "Signal Pattern" is more effective.
- The after-image removal function has to be executed for a long time (approximately 1 hour) to effectively remove after-images on the screen. If the after-image is not removed after performing the function, repeat the function again.
- Press any key on the remote control to cancel this feature.

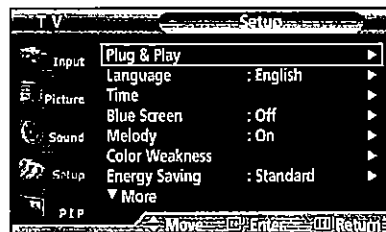
Plasma Display



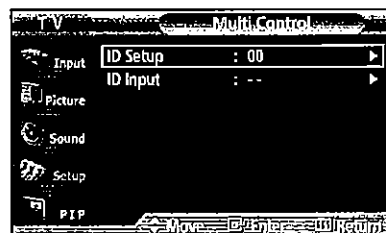
Setting the MDC (Multiple Display Control)

This function enables you to easily control the connected monitors on the PC by specifying IDs to connected monitors.

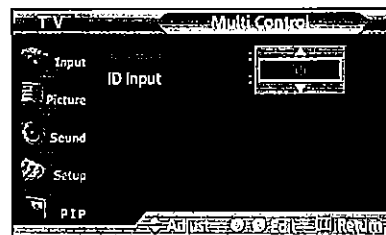
- 1 Press the MENU button.
Press the ▲ or ▼ button to select "Setup", then press the ENTER button.



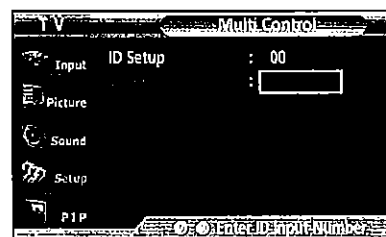
- 2 Press the ▲ or ▼ button to select "Multi Control", then press the ENTER button.



- 3 Press the ▲ or ▼ button to select "ID Setup", then press the ENTER button.
Select the ID setup number by pressing the ▲, ▼ or numeric buttons.



- 4 Press the ▲ or ▼ button to select "ID Input", then press the ENTER button.
Enter ID input number by using numeric buttons.



- 5 Press the EXIT button to exit.

Notes

- To operate the multi control function, PDP1 and PDP2 should be set in the ID Setup mode.
When entering the ID Input number of PDP1 while the PDP Monitor is set in the ID Input mode, only PDP1 is switched to the Menu screen and you can operate the remote control. At this time, PDP2 doesn't operate with the remote control and displays the standby mode of ID Input.
- For further details, refer to the MDC program guide.

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

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Troubleshooting

If the PDP Monitor seems to have a problem, first try this list of possible problems and solutions.
If none of these troubleshooting tips apply, then call your nearest service center.

Problem	Possible Solution
Poor picture.	Check all wire connections.
No picture or sound.	Press the SOURCE button. Make sure the PDP Monitor is plugged in. Check that the Mute feature is Off. Check if Internal Mute is set to On.
Poor sound quality.	Adjust the volume.
Your remote control does not operate the PDP Monitor.	Check the battery charge of the remote control.
The PDP Monitor won't turn on.	Check if the power plug is connected.
There is no screen image.	Check to see that both the PDP Monitor 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.
Screen is black and power indicator light blinks steadily.	On your computer check; Power, Signal Cable. The PDP Monitor is using its power management system. Move the computer's mouse or press any key on the keyboard. On your equipment check (STB, DVD, etc) ; Power, Signal Cable. The PDP Monitor is using its power management system. Press the Source button on the panel or remote control. Turn the PDP Monitor off and on.



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Care and Maintenance

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

Identifying Problems

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

Liquids

- Do not place liquids near or on the PDP Monitor.

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your PDP Monitor 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 Monitor 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

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

Model	HP-R8082	
Dimensions	Display	48.43 (W) x 32.52 (H) x 3.72 (D) inches (Without Stand)
		48.43 (W) x 34.47 (H) x 13.18 (D) inches (With Stand)
Weight	Display	46.8 Kg / 103.17 lbs (Without Stand)
		53.5 Kg / 117.95 lbs (With Stand)
Voltage	AC 100-120V~, 60Hz	
Power Consumption	1200 W	
Number of Pixels	1920 (H) x 1080 (V)	
Screen Size	80 inches	
VIDEO input	AV1, AV2 S-VIDEO1, S-VIDEO2 COMPONENT1 - 480i,P/576i,P/720P/1080i COMPONENT2 - 480i,P/576i,P/720P/1080i PC HDMI (DVI Compatible)	
AUDIO input	AV1, AV2 S-VIDEO1, S-VIDEO2 COMPONENT1 - 480i,P/576i,P/720P/1080i COMPONENT2 - 480i,P/576i,P/720P/1080i PC DVI	
Sound Output	AUDIO (L/R), EXT SPEAKER (8Ω) (R +/- , L +/-)	
Audio Output	OPTICAL (DIGITAL OUT) COAXIAL (DIGITAL OUT)	
External Control	RS-232C - IN/OUT	

Plasma Display



Memo



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