

## **ATTACHMENT E.**

**- USER'S MANUAL -**

# VIORE™

## OPERATING INSTRUCTIONS

### **42" Plasma Monitor** **PD42V76EM**



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# Caution

	<b>CAUTION</b> RISK OF ELECTRIC SHOCK DO NOT OPEN	
<p>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.</p>		



This symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

<b>CAUTION</b>
<ul style="list-style-type: none"> <li>- TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD.</li> <li>- DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.</li> <li>- SHOCK HAZARD DO NOT OPEN.</li> </ul>

<b>CAUTION</b>
<p>These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.</p>

<b>CAUTION</b>
<p>The stand intended for use only with This Monitor. Use with other apparatus is capable of resulting in instability causing possible injury.</p>

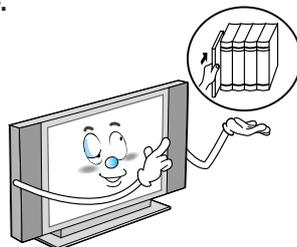
<b>WARNING</b>
<ul style="list-style-type: none"> <li>- Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.</li> <li>- This is Class B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures.</li> <li>- To reduce the risk of fire and electric shock, do not expose this product to rain or moisture.</li> </ul>

<b>FCC NOTICE</b>
<p>This device has been tested and found to comply with the limits for a Class B device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in home environment as well as in a commercial, industrial or business environment. This equipment can generate, use and radiate radio frequency energy and, if not installed and used in accordance with the instruction, 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 :</p> <ul style="list-style-type: none"> <li>- Reorient or relocate the receiving antenna.</li> <li>- Increase the separation between the equipment and receiver.</li> <li>- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.</li> <li>- Consult the dealer or an experienced radio/Monitor technician for help.</li> </ul> <p>Changes or modification not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. Connecting of peripherals requires the use of grounded shielded signal cables.</p>

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



Read all safety and operating instructions before operating your the Monitor.



Keep the safety and operating instructions for future reference.



Heed all warnings on the Monitor and in the operating instructions.

# Important Safety Instructions

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

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 a damp cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, 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 is provided for your safety. When 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 the attachments/accessories specified by the manufacturer.
12. Use only with a 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.
15. When installing the PDP Monitor, do not block the appliance coupler with any structure. User can easily have access to the coupler to disconnect it from AC main power.

# Precaution

In case of the following cases, unplug the unit from the wall outlet and contact qualified service center.

- when power supply cord or plug is damaged.
- If liquid has been spilled on the unit or if alien objects have fallen into the unit.
- If the Monitor has been exposed to rain or water.
- If the Monitor does not operate normally by following the operating instructions.
- If the Monitor dropped or the cabinet has been damaged.
- When the Monitor exhibits a distinct change in performance.

## Setting



Follow all operating and use instructions.

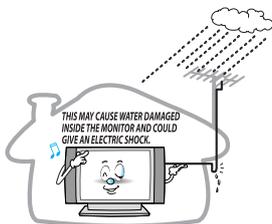


Do not use the Monitor where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.



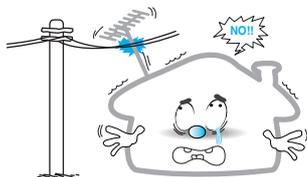
Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of overhead power lines or other electric light or power circuits or where it can fall into such power lines or circuits. When installing an outside antenna system, be extremely careful to keep from touching the power lines or circuits. Contact with such lines can be fatal.

Ground outdoor antennas. If an outside antenna or cable system is connected to the Monitor, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



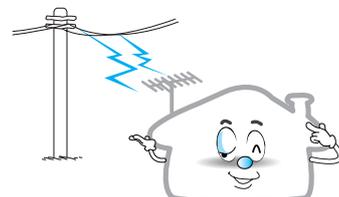
Bend antenna cable between inside and outside building to prevent rain from flowing in.

- This may cause water damaged inside the Monitor and could give an electric shock.



Do not place an outside antenna in the vicinity of overhead power lines, or other electric light or power circuits.

- This may cause an electric shock.



There should be enough distance between an outside antenna and power lines to keep the former from touching the latter even when the antenna falls.

- This may cause an electric shock.

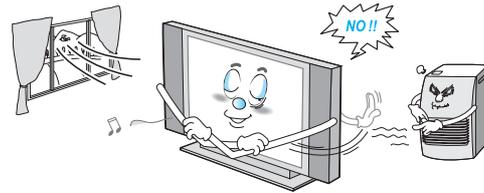
# Precaution

## Setting

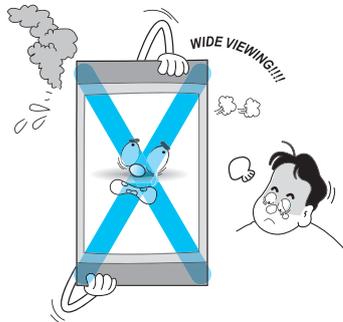


When installing the Monitor on a table, be careful not to place it too close to the edge of the table.

- This may cause the Monitor to fall, causing serious injury to a child or adult, and serious damage to the Monitor.



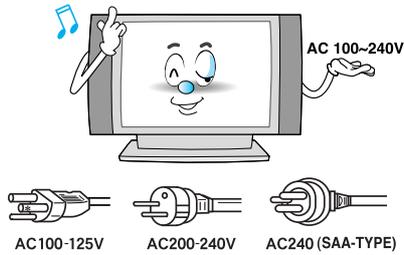
Provide ventilation for the Monitor. The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the Monitor on a bed, sofa, rug or other similar surface. Do not place it near a radiator or heat register. If you place the Monitor on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.



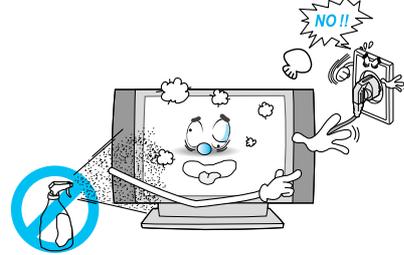
This plasma display is designed to be mounted horizontally (wide viewing). Any inquiry regarding its vertical position should be forwarded to the manufacture directly.

# Precaution

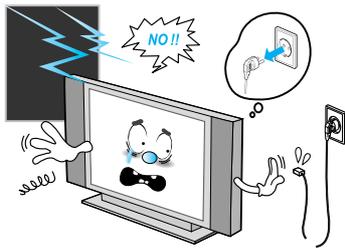
## Power



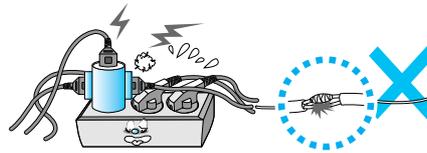
Use only the accessory cord designed for this product to prevent shock. The power supply voltage rating of this product is AC 100-240V, the power cord attached conforms to the following power supply voltage. Use only the power cord designated by our dealer to ensure Safety and EMC. When it is used by other power supply voltage, power cable must be changed. Consult your product dealer.



Unplug the Monitor from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.



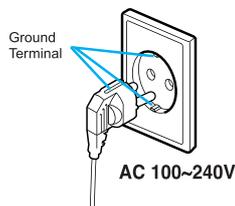
Unplug the Monitor from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.



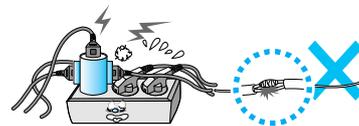
Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.



Do not touch the plug with wet hand.  
- It can make an electric shock.



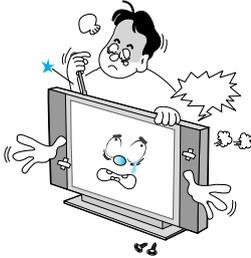
Use only a grounded or polarized outlet. For your safety, this Monitor is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.



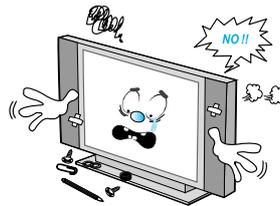
Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.

# Precaution

## Operation

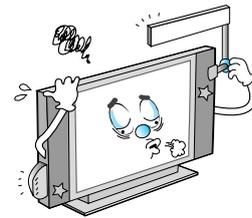


Upon completion of any service or repairs to this the Monitor, ask the service technician to perform safety checks to determine that the Monitor is in a safe operating condition.

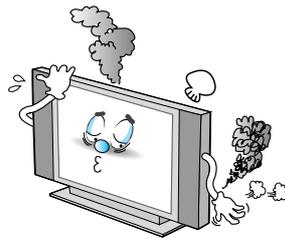


Do not place anything containing liquid on top of the Monitor.

- This may cause a fire or could give an electric shock.



Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.



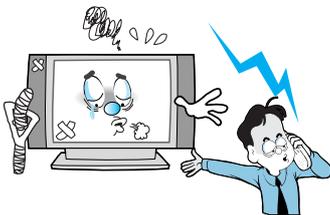
In case of smoke or strange smell from the Monitor, switch it off, unplug it from the wall outlet and contact your dealer or service center.

- This may cause a fire or could give an electric shock.



Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the Monitor.

## Operation



When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.

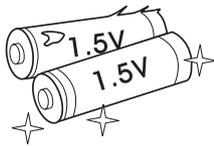


If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the Monitor to normal.



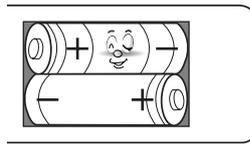
Do not let children hang on or ride on the Monitor.

## Operation



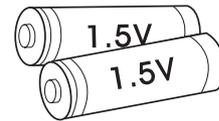
Do not use new battery with old one.

- This can lead a fire or electric shock caused by leakage liquid from abused batteries.



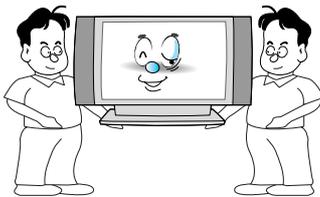
Put the batteries in right direction (+/-).

- Otherwise, it can make a fire, injury and pollution caused by bursting of batteries.



Only use the specified batteries.

- This make cause damaged the Monitor or could give an electric shock.



More than two people are necessary to move or take off the package due to the product's weightiness.

- Otherwise, it can cause personal injury.



Keep the batteries out of reach of children when exchanged.

- Seek urgent medical advice if child swallows a battery.

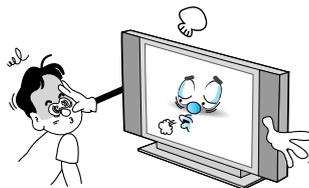


Avoid having a fixed image remain on the screen for a long period of time. Typically a frozen still picture from a VCR, 4:3 picture format or if a CH label is present; the fixed image may remain visible on the screen.



When moving the Monitor assembled with speakers do not carry holding the speakers.

- This may cause the Monitor to fall, causing serious injury to a child or adult, and serious damage to the Monitor.



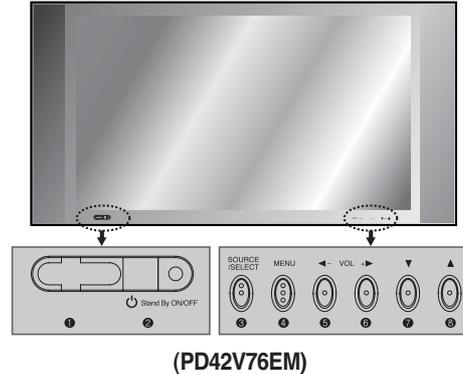
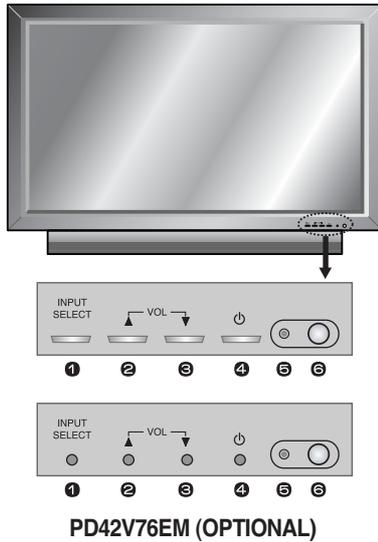
The distance between eyes and the screen should be about 5~7 times as long as diagonal length of the screen.

- If not, eyes will strain.

# Viewing the Control Panel

## OSD Button Position

### Front Panel



#### OSD Button

- |                              |                 |
|------------------------------|-----------------|
| 1 Input Source Select        | 1 Stand By      |
| 2 Up (See the box below)     | 2 Remote Sensor |
| 3 Down (See the box below)   | 3 Source/EXIT   |
| 4 Stand By                   | 4 Menu/SET      |
| 5 Remote Sensor              | 5 VOL-          |
| 6 Status/Power Indicator LED | 6 VOL+          |
|                              | 7 Down          |
|                              | 8 Up            |

## OSD Button Function

- INPUT SELECT**  
Select the signal source from multiple input sources such as VIDEO1, VIDEO2, S-VIDEO/AV, COMPONENT1, COMPONENT2, PC, DVI and HDMI.
- VOL ▲/▼ (PD42V76EM (OPTIONAL)) OR VOL -/+ (PD42V76EM)**  
To change the **VOLUME**, press ▲ button first and change the volume with ▲, ▼ buttons. (PD42V76EM (OPTIONAL) Only)  
To change the Position and VOLUME. (PD42V76EM (OPTIONAL) Only)
- Stand By On/Off**  
Turn the Monitor on and off.
- Menu (PD42V76EM Only)**  
Call the OSD Menu.

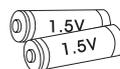
## Accessories



Remote Control Handset



Power Cord



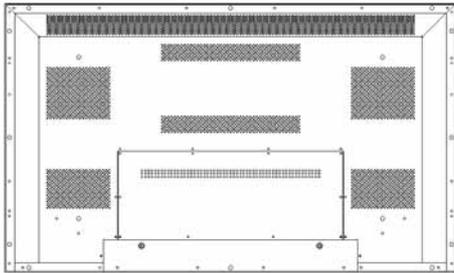
Alkaline Batteries



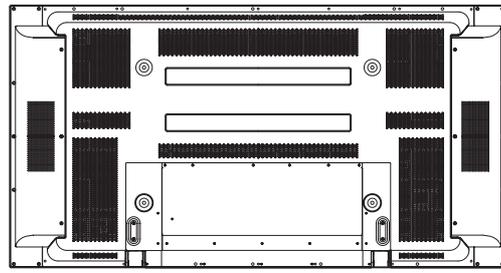
Owner's Manual

# Viewing the Connecting Panel

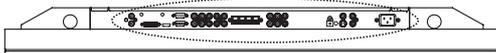
## Back Panel and Jacks



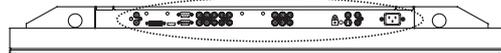
Back panel of the Monitor



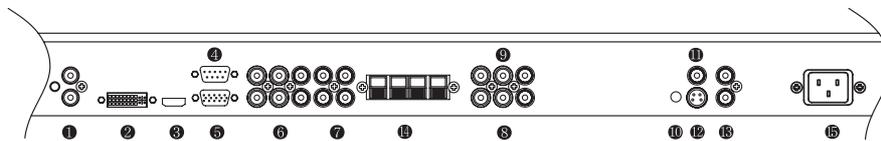
Back panel of the Monitor



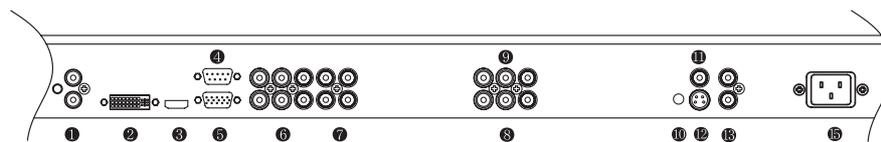
PD42V76EM (OPTIONAL)



(PD42V76EM)



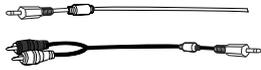
PD42V76EM (OPTIONAL)



(PD42V76EM)

1	DVI & D-Sub (PC) Sound	9	VIDEO2
2	DVI	10	Line Out
3	HDMI	11	AV
4	RS-232C	12	S-VIDEO
5	D-Sub (PC)	13	S-VIDEO/AV Sound
6	COMPONENT1, 2	14	Speaker (optional)
7	COMPONENT Sound1, 2	15	AC Power
8	VIDEO1		

# Viewing the Connecting Panel



DVI, D-Sub (PC) Sound Cable  
Connect (1) port.



DVI Cable  
Connect (2) port.



HDMI Cable  
Connect (3) port.



RS-232C Cable  
Connect (4) port.



D-Sub (PC) Cable  
Connect (5) port.



Component Cable  
Connect (6) port.



Component & S-Video &  
AV Sound Cable  
Connect (7) and (13) port.



RCA Cable  
Connect (8), (9) port.



Line Out Cable  
Connect (10) port.



AV Cable  
Connect (11) port.



S-Video Cable  
Connect (12) port.



AC Power Cable  
Connect (15) port.

Connectors	
Audio Input	RCA Pin Jack
Composite Video Input	RCA Pin Jack
Composite Video Output	RCA Pin Jack
S-Video Input	Mini Din 4 Pin
Component Video Input	RCA Pin Jack
Analog RGB Input	Mini D-Sub 15 Pin
HDMI Input	HDMI Connect
Digital Video Input	DVI-D 24 Pin

- Cables connecting the PC vary according to the type of machine, so consult your product dealer.

## RS-232C Configurations

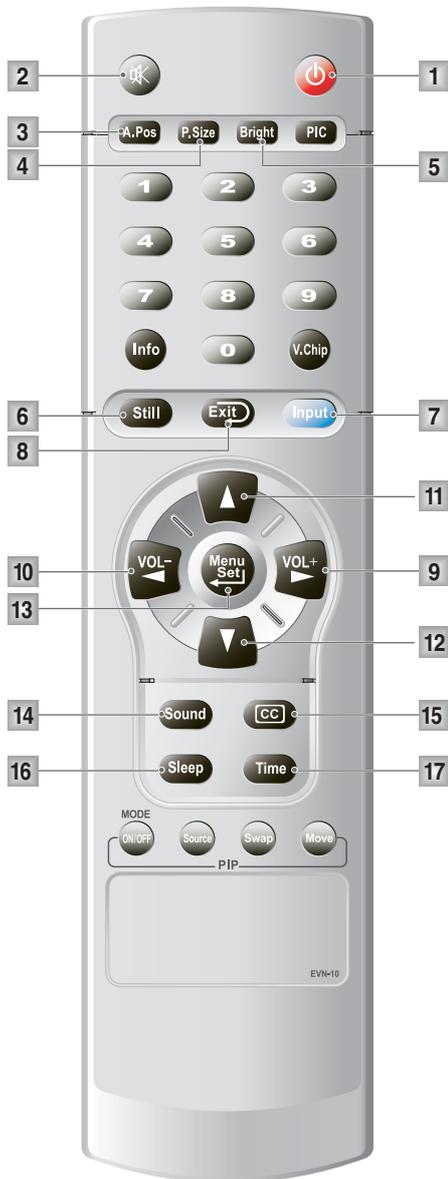
### 3-Wire (Non-standard)

#### PC Monitor

RXD	2	3	TXD
TXD	3	2	RXD
GND	5	5	GND
DTR	4	4	DTR
DSR	6	6	DSR
RTS	7	7	RTS
CTS	8	8	CTS

# Viewing the Remote Control

## ► Button Description

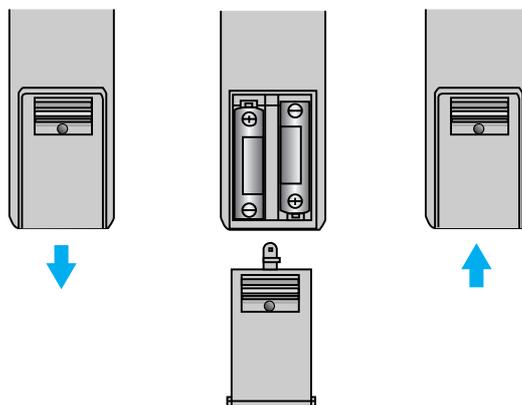


- 1 POWER**  
Turn the PDP on and off.
- 2 MUTE**  
Temporarily cut the sound and restore it.
- 3 A.Pos (auto position)**  
Adjust the PC Screen.
- 4 P.Size**  
Choose the screen form.  
16:9 → Panorama → Zoom1 → Zoom2 → 4:3
- 5 Bright.**  
Adjust the Contrast, Brightness, Color, etc.
- 6 Still**  
Temporarily freeze the screen and restore it.
- 7 Input**  
Display the input source list.
- 8 Exit**  
Return to the previous OSD menu.
- 9 VOL+**  
Increase the volume level.
- 10 VOL-**  
Decrease the volume level.
- 11 Move+**  
Move to the upper menu.
- 12 Move-**  
Move to the lower menu.
- 13 Menu/Set**  
Display the main OSD menu.  
Activate your choice in the OSD menu.
- 14 Sound**  
Choose the sound equalizer settings.  
Standard → Movie → Music → News → User
- 15 CC (Close Caption)**  
Set the close caption.
- 16 Sleep**  
Set the preset time interval for automatic turn-off.  
OFF(Not work) → 30min → 60 → 90 → 120 → 180
- 17 Time**  
Display the current time on the screen.

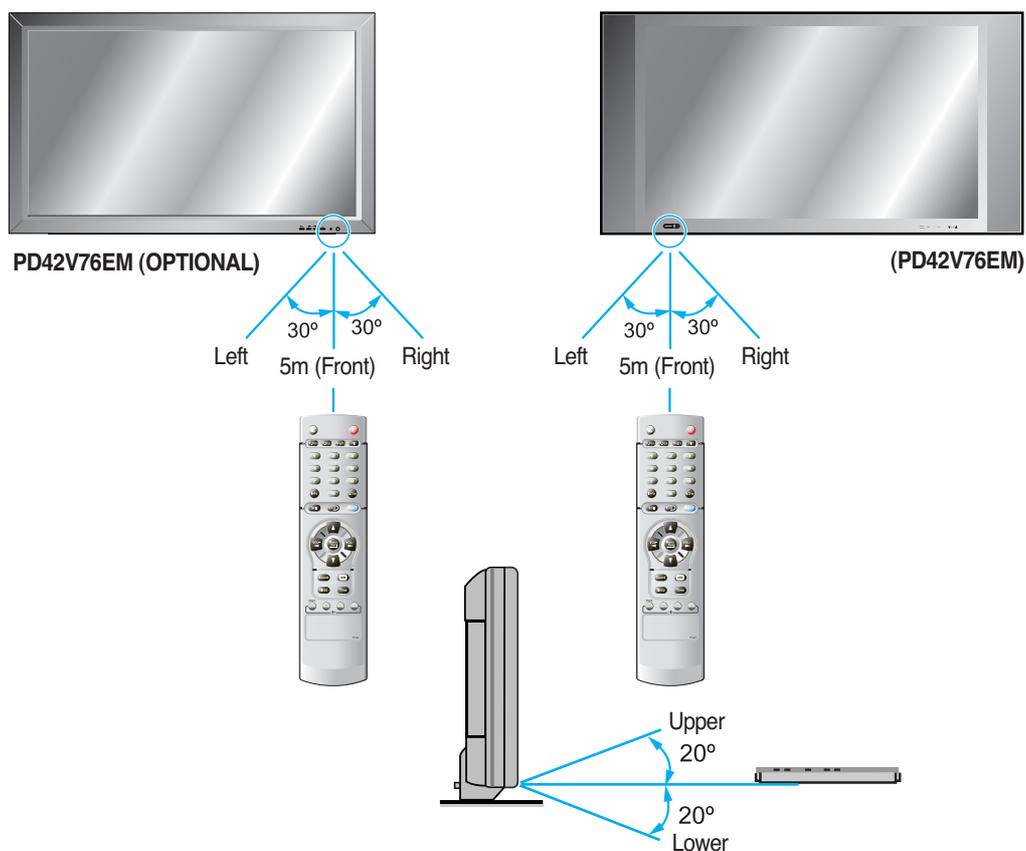
# Controls of the Remote Control

## Loading the Batteries

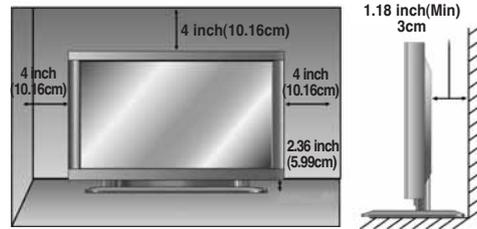
- 1 Press on the cover and slide in the direction of the arrow.
- 2 Load two AAA batteries, taking care that the + and - ends face the correct direction.
- 3 Close the cover until it clicks.



## Reception Range of Remote Control



## Table Stand Installation (optional)



< The Monitor can be installed on the desk as shown above. >

• Table stand mount minimum allowable clearances for adequate ventilation.

### Installation

### PD42V76EM (OPTIONAL)

#### Table-Stand User's Guide

① Insert Stand Bars into the Stand Base as shown below

② a) – Secure with Screw A (8 x 18)

Screws A: 2-8 x 18

③ Insert a Table-Stand as below

④ b) – Secure with Screw B (4 x 30)

Screws B: 2-4 x 30

### (PD42V76EM)

#### Table-Stand User's Guide

① Insert Stand Bars into the Stand Base as shown below

② a) – Secure with Screw A (8 x 25)

Screws A: 2-8 x 25

③ Insert a Table-Stand as below

④ b) – Secure with Screw B (4 x 20)

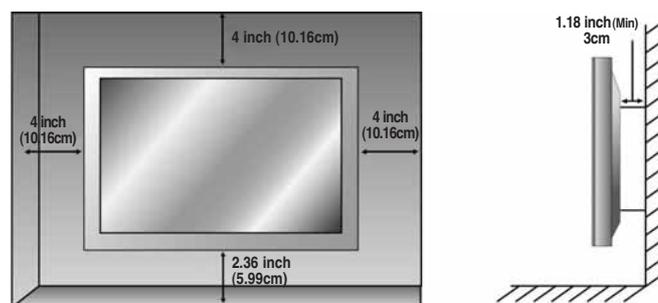
Screws B: 4-4 x 20

# Installation

## Wall Mount Installation (optional)

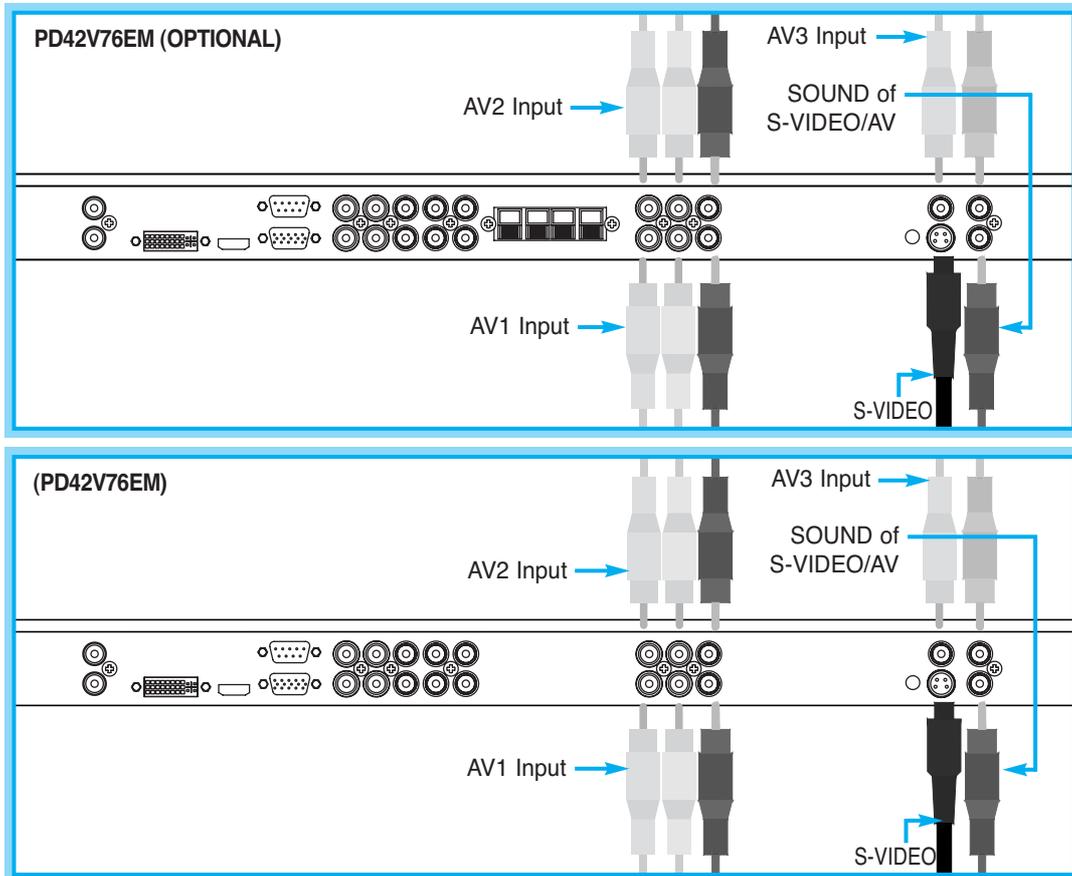


< The Monitor can be installed on the wall as the picture above. >



- Install this Monitor only in a location where adequate ventilation is available.

# Connecting the VCR



## Connecting the VCR

### With S-Video

Connect a S-Video cable to the S-Video jacks of the VCR and the Monitor.  
Connect L (White), R (Red) sound cable (Composite) to the sound jacks of the VCR and the Monitor.

### With AV Input

Connect a composite cable to the AV video jacks of the VCR and the Monitor.  
Connect L (White), R (Red) sound cable (Composite) to the sound jacks of the VCR and the Monitor.

## Watching VCR

- 1 Press INPUT button on the remote control and select video sources.
- 2 Insert a video tape into the VCR and press the PLAY button on the VCR.



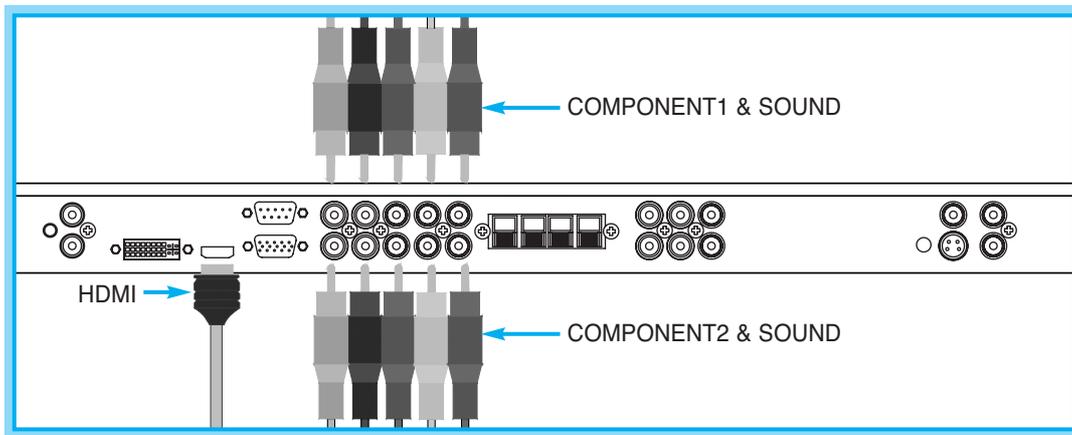
### Notes

- **To avoid picture noise (interference),** leave an adequate distance (over 3m) between the VCR and Monitor.
- When connecting the Monitor with external equipment, match the color of connecting ports (e.g. Video - Yellow, Audio (L) - White, Audio (R) - Red).
- If you have a mono VCR, connect the audio cable from the VCR to the AUDIO (L/Mono) input of the Monitor.
- If you connect an S-VHS VCR to the S-VIDEO input socket, you can get a better picture quality than normal video input (AV).
- **Avoid having a fixed image remain on the screen for a long period of time.**  
Typically a frozen still picture from a VCR 4:3 picture format or if a program information is present.

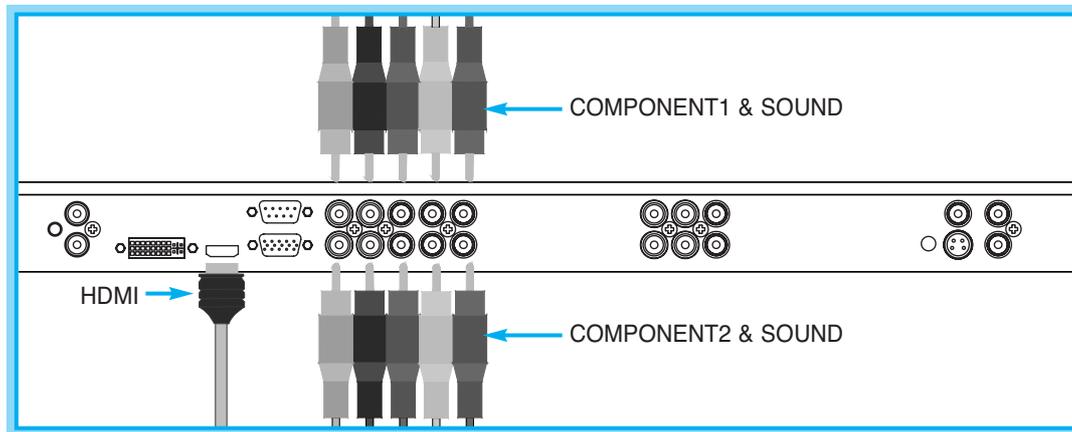
# Connecting the DVD

## Connecting the DVD

- Connect the three separate component video cables to the DVD player's Y, Pb and Pr jacks and to the component jacks on the Monitor.
- Connect the audio cable to the DVD player's audio L (White) and R (Red) jacks and to the L and R audio jacks beside the component jacks on the Monitor.
- Connect the HDMI cables to the DVD player's and to the HDMI cables on the Monitor.



PD42V76EM (OPTIONAL)



(PD42V76EM)

# Connecting the DVD

## How to Use

- 1 Turn on the DVD player.
- 2 Press INPUT button on the remote control of the Monitor and select HDMI, COMPONENT1 or COMPONENT2.

Supported Signals					
	COMPONENT1	COMPONENT2	PC	DVI	HDMI
480i/60Hz	✓	✓	-	-	-
480p/60Hz	✓	✓	✓	✓	✓
576i/50Hz	✓	✓	-	-	-
576p/50Hz	✓	✓	✓	✓	✓
720p/50Hz	✓	✓	✓	✓	✓
720p/60Hz	✓	✓	✓	✓	✓
1080i/50Hz	✓	✓	✓	✓	✓
1080i/60Hz	✓	✓	✓	✓	✓

### Component Input Ports

You can get better picture quality if you connect DVD player with component input sockets as below.

Component ports of the Monitor	Y	P <sub>B</sub>	P <sub>R</sub>
Video output ports of DVD player	Y Y Y	P <sub>b</sub> B-Y C <sub>b</sub> P <sub>B</sub>	P <sub>r</sub> R-Y C <sub>r</sub> P <sub>R</sub>



### Notice

Normal DVD source is based on 480i, which should be through normal Y Pb Pr of component signal. It may occur screen noise, blank screen in case of using HDMI Cable unauthorized by ATC. It may easily occur as specially HD signal(720p or 1080i) input. Suggest HDMI Cable only authorized by ATC.

## What is HDMI?

**HDMI**<sup>™</sup>  
HIGH-DEFINITION MULTIMEDIA INTERFACE

- HDMI, or high-definition multimedia interface, is a next-generation interface that enables the transmission of digital audio and video signals using a single cable without compression.

- "Multimedia interface" is a more accurate name for it especially because it allows Not Only Digital video but also digital audio. The difference between HDMI and DVI is that the HDMI device is smaller in size, has the HDCP (High Bandwidth Digital Copy Protection) coding feature installed, and supports multi-channel digital audio.
- Use the HDMI/DVI terminal for DVI connection to an extended device. You should use the DVI-to-HDMI cable or DVI-HDMI Adapter for the connection.
- HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

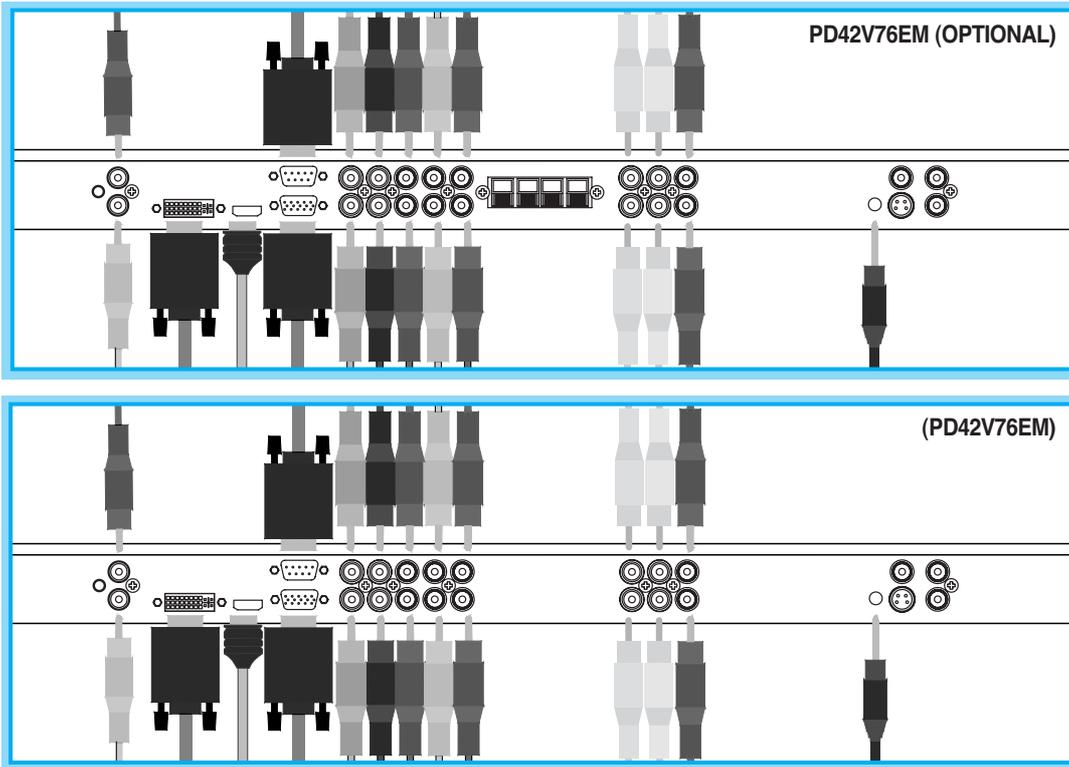
### Connecting HDMI/DVI

- Supports connections between HDMI-connection-enabled AV devices (set top boxes, DVD players, AV receivers and digital Monitors).
- No sound connection is needed for an HDMI to HDMI connection.

# Connecting the Set Top Box

## How to Connect

Connect set top box video inputs to AV, COMPONENT, HDMI, PC or DVI jacks on the Monitor.  
Audio inputs to Audio sockets beside the L (White) and R (Red) audio jacks which you connect video inputs.



## How to Use

- 1 Turn on the set top box.
- 2 Press INPUT button on the remote control of the Monitor and select COMPONENT1, COMPONENT2, HDMI, PC or DVI.

	Supported Signals				
	COMPONENT1	COMPONENT2	PC	DVI	HDMI
480i/60Hz	✓	✓	-	-	-
480p/60Hz	✓	✓	✓	✓	✓
576i/50Hz	✓	✓	-	-	-
576p/50Hz	✓	✓	✓	✓	✓
720p/50Hz	✓	✓	✓	✓	✓
720p/60Hz	✓	✓	✓	✓	✓
1080i/50Hz	✓	✓	✓	✓	✓
1080i/60Hz	✓	✓	✓	✓	✓

## How to Connect

### With AV

Connect a AV cable to the AV jacks of the STB (set top box) and the Monitor.

### With Component

Connect a three separate component cables to the component jacks of the STB and the Monitor.  
Connect L (White) and R (Red) sound cables (Composite) to the sound jacks of the STB and the Monitor.

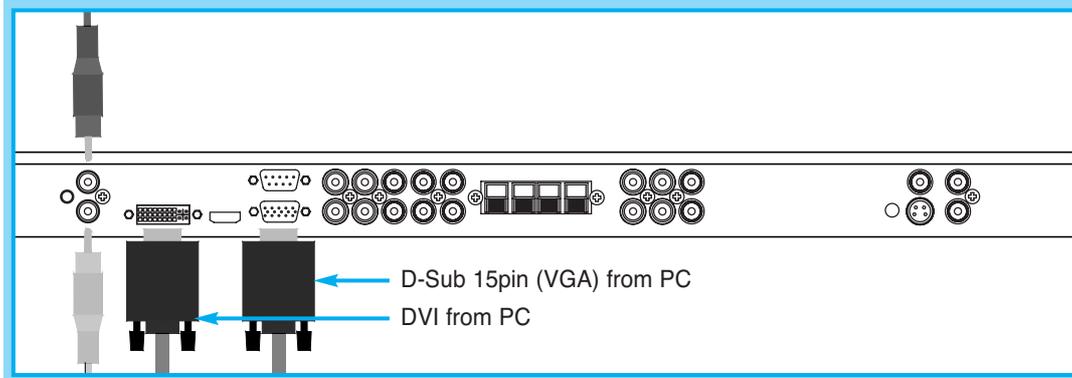
### With HDMI

Connect a HDMI cable to the HDMI jacks of the STB and the Monitor.

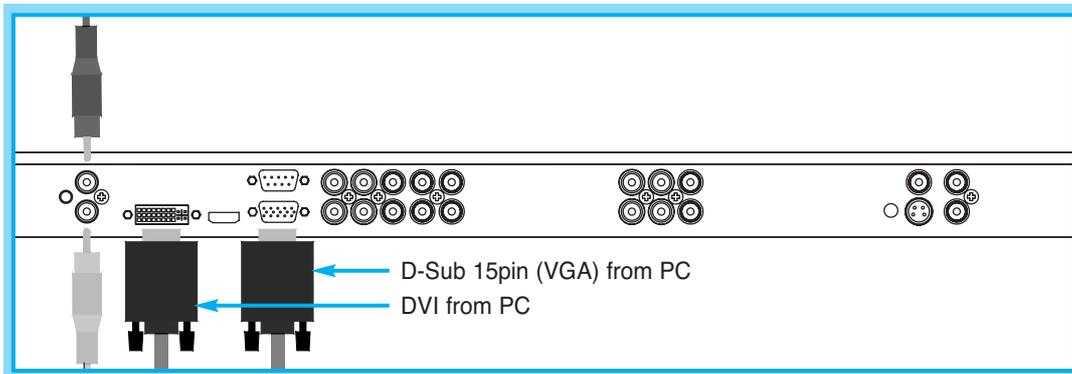
### With RGB or DVI

Connect a D-Sub or DVI cable to the AV video jacks of the STB and the Monitor.  
Connect L (White) and R (Red) sound cables (Composite) to the sound jacks of the STB and the Monitor.

# Connecting the PC ( D-Sub & DVI )



PD42V76EM (OPTIONAL)



(PD42V76EM)

## ▶ Connecting a PC to the Monitor

Connect a PC (15pin) video cable between the video output port on the PC and the PC port on the Monitor.

## ▶ Pin Configuration

15pin signal cable (based on protruded pin).

## ▶ To watch the PC screen

- 1 Turn on the Monitor and press INPUT button to select the PC mode.
- 2 Turn on the PC and check for the PC requirement.
- 3 Adjust the PC screen in Position menu. (See 35 page.)



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

# Displayable Monitor Specification

Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)
720 x 400	31.469	70.08
	37.927	85.03
640 x 480	31.469	59.94
	35.000	66.66
	37.861	72.80
	37.500	75.00
	43.269	85.00
	45.913	90.03
	53.011	100.04
800 x 600	35.156	56.25
	37.879	60.31
	48.077	72.18
	46.875	75.00
	53.674	85.06
	56.000	90.00
	64.016	100.00
832 x 624	49.725	74.55
1024 x 768	48.363	60.00
	56.476	70.06
	60.023	75.029
	68.677	84.997
1152 x 864	67.50	75.00
1280 x 1024	64.00	60.00



## Notes

- **Synchronization input form : separate**
- The Monitor recognizes 640 x 480 @60Hz signal as 480p DTV signal. So the signal is expanded, please try other signals like 640 x 480 @75Hz.
- The Monitor operates abnormally if a non-standard video format is selected.
- Depending on the manufacturer, your PC screen might appear differently (and depending on your particular version of windows). Check your PC instruction book for information about connecting your PC to the Monitor .
- The Monitor may operate abnormally if a non-standard video signal inputs.
- **"Not Support"** message box will appear when an over-spec video signal is inputted. Change the video settings of PC when the message is displayed.

## Turning the Monitor On/Off

Press the Power button on the remote control. The Monitor will turn on and you will be ready to use its features. You can also use the Power button on the front panel.

## Select Source

Press INPUT button on the remote control. Then you can see the source list menu shown as below.



Source list menu

Select the source to watch with  /  button on the remote control and press the Menu/Set button.

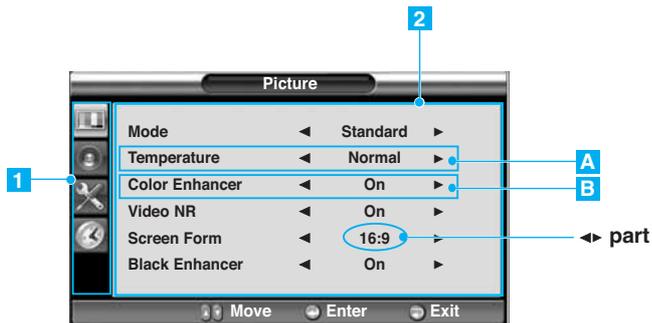
## Volume Control

Use VOL+, VOL- button on the remote control to adjust the volume level. Press MUTE button on the remote control when you need to cut the sound temporarily.

# OSD Menu Structure

- OSD (On Screen Display) allows users to control or adjust various features and settings in accordance with his/her preferences.
- Press the Menu/Set button on the remote control to see the main OSD menu.

## ▶ Example of OSD Menu



### 1 Main Menu

Press Menu/Set button on the remote control to enter the main OSD menu.

First, select main menu item you need with / button.

To select a main menu items, just press Menu/Set button on the remote control.

### 2 Sub Menu

Each menu item has its own sub menu items to set.

### 3 Sub Menu Items

**A** : If there is no part, the item has an sub menu.

You can enter the sub menu and adjust an item you need.

Select sub-menu item with / button on the remote control and press Menu/Set button to enter the sub menu.

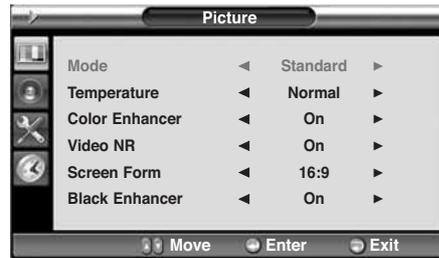
**B** : If there is a part, you can set the item by selecting . Ex) ON or OFF Press Menu/Set button to set a part, and adjust it with / button.

# Setting the Picture

## Changing the Picture Mode

Your the Monitor has 3 automatic factory preset picture settings (**Standard**, **Vivid** and **Mild**). You can choose **Standard**, **Vivid** or **Mild** by pressing Picture button on the remote control (or by making a selection from the menu). Or you can select **User** which automatically recalls your personalized picture settings.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Mode** and press Menu/Set button to enter the sub menu. Then the picture sub mode appear.
- 5 Select the picture mode and press Menu/Set button.
- 6 You will see the picture setting bars. Just press Exit button on the remote control. You can adjust each values of the picture setting, but the changed values are stored as in **User** mode.



User mode require more settings.  
It has an under menu



### Notes

**Alternative method** : Just press the PICTURE button on the remote control. Each time it is pressed, different mode is selected.

### Adjusting the User Mode

You can change the **Contrast**, **Brightness**, **Color**, **Sharpness**, and **Tint** according to personal preference in **User** mode. (The function for Tint adjustment is activated when NTSC signal is input.)

- 1 Select the item to adjust with / button.
- 2 Press Menu/Set button.
- 3 Adjust the item with / button.
- 4 To cancel all adjust, select **Recall** and press Menu/Set button.

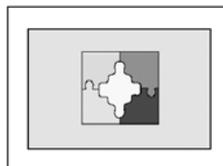


For a more detailed description of these settings,  
see the next page.

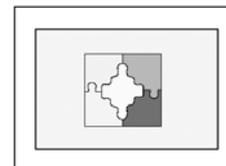
# Setting the Picture

## ● Contrast

Adjust brightness difference between bright part of the screen and dark part.



Distinct ◀



▶ Vague

## ● Brightness

Adjust brightness of the screen.



Dark ◀



▶ Bright

## ● Color

Adjust deep and light color of the screen.



Decrease ◀



▶ Increase

## ● Sharpness

Adjust vividness of the screen.



Less sharp ◀



▶ Sharp

## ● Tint

Adjust the balance between green and yellow.



Green color is deeper ◀



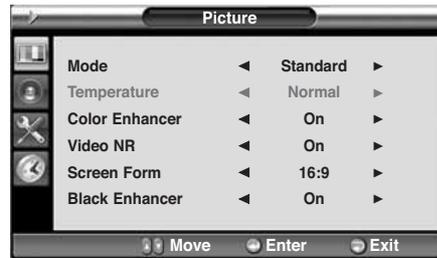
▶ Red color is deeper

# Setting the Picture

## Changing the Color Temperature

Your Monitor has 5 screen temperatures (color settings).

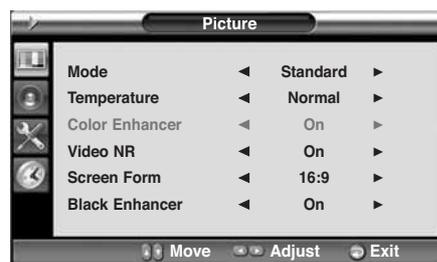
- 1 Press Menu/Set button to display the main OSD menu.
  - 2 Select the Picture main menu.
  - 3 Press  button to enter the picture menu.
  - 4 Select **Temperature** and press Menu/Set button to enter the sub menu. Then the picture-temperature under menu appear.
  - 5 Select the Temperature mode with  /  button and press Menu/Set button.
  - 6 Press Exit button to return.
- ▶ **Cool 1, 2**  
Screen seems cool: Strong Blue.
  - ▶ **Normal**  
Normal: Factory default.
  - ▶ **Warm 1, 2**  
Screen seems warm: Strong Red.



## Changing the Color Enhancer

This function will enhance the color level. Green, Blue and Skin color on the picture will enhance, while others areas remain unchanged.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu item.
- 3 Press  button to enter the sub menu.
- 4 Select **Color Enhancer** menu. Then the cursor moves into the ◀▶ parts.
- 5 Turn on or off Film mode function with  /  button and press Exit button.

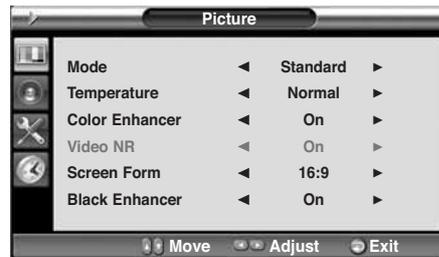


# Setting the Picture

## Video NR (Noise Reduction)

This function automatically filters out and reduces the image noise and improves picture quality where receiving weak signals.

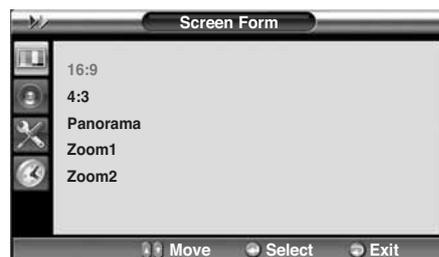
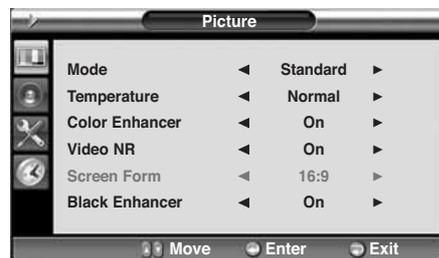
- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu item.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Video NR** menu. Then the cursor moves into the ◀▶ parts.
- 5 Turn on or off Video NR function with   button and press Exit button.



## Changing the Screen Form

Your Monitor has four screen forms: **16:9**, **4:3**, **Panorama**, **Zoom1**, **Zoom2**.  
(For more detail description for these modes, refer to the next page.)

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu.
- 3 Press  enter the picture menu.
- 4 Select **Screen Form** and press  button to enter the sub menu. Then the screen form under menu appear.
- 5 Select the Screen Form you want and press  /  button and Exit button.



### Notes

- Panorama Screen Form is not available for COMPONENT1-2 , PC RGB, DVI ,HDMI input source.
- PC RGB, DVI, HDMI input source use 4:3 or 16:9 Screen Form

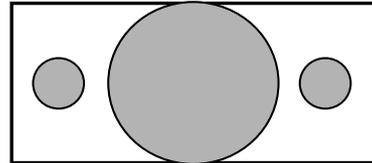
# Setting the Picture

## Screen Form Description

### 16:9

16:9 video : No change.

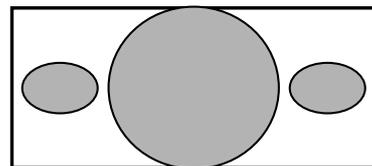
4:3 video : Expands 4:3 video signal horizontally to fit the 16:9 screen.



### Panorama

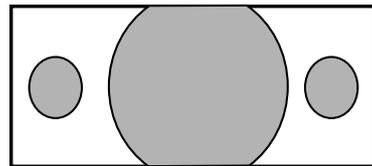
16:9 video : No change.

4:3 video : Expands 4:3 video horizontally to fit the 16:9 screen and to minimize distortion, sides are expanded more than center.



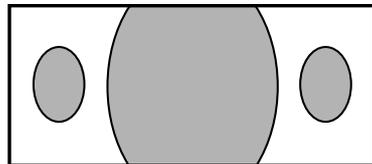
### Zoom1

Expands 16:9 mode screen vertically.



### Zoom2

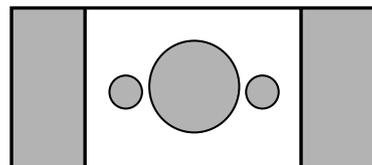
Expands Zoom 1 mode screen vertically.



### 4:3

16:9 video : The image is suppressed.

4:3 video : No expansion. There are gray areas besides the image.



## Selecting the Black Enhancer

This will enhance the black level / the contrast of the picture. The dark regions of the picture are made darker, while bright areas remain unchanged. The advantage of this black-level expansion is that the black expansion is performed only if it is noticeable to the viewer.



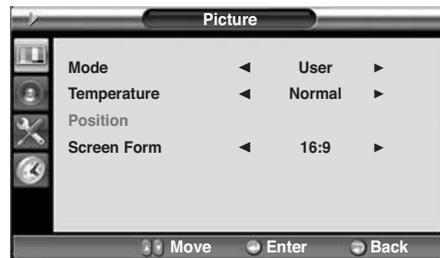
# Setting the Picture ( PC )

In PC mode, you can adjust the H, V-Position, Divide, Phase and Auto Adjust. Also you can adjust them automatically.

## Position

You can change H, V-Position, Divide and Phase in PC mode like usual PC monitors. You can also adjust them automatically. (Auto adjust function.)

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Picture main menu with  /  button.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Position** and press Menu/Set button to enter the under menu. Then the Picture-Position under menu will appear.



### Adjusting the User Mode

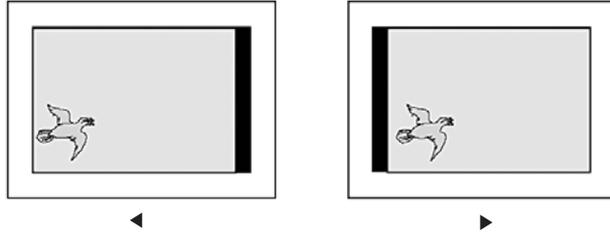
- 1 Select the item to adjust with  /  button.
- 2 Press Menu/Set button.
- 3 Then the cursor moves on the bar and you can adjust the value with  /  button.
- 4 To adjust these items, automatically, select **Auto Adjust** and press Menu/Set button.



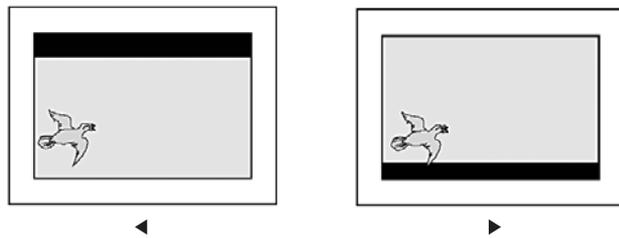
For more detail description refer to the next page.

# Setting the Picture ( PC )

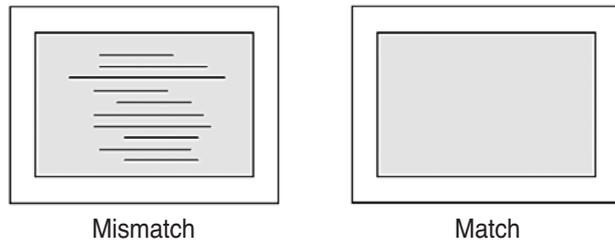
## ● H-Position



## ● V-Position



## ● Phase



# Setting the Sound

In Sound menu, you can adjust balance, MTS (Multi-Track Sound), AVC (Auto Volume Control) and select the equalizer settings.

## Adjusting the Sound Balance

This control allows you to adjust the balance of the left and right speaker output.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Sound main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Balance** and press Menu/Set button.
- 5 Adjust the Balance with  /  button and press Exit button.



## Changing the Sound Mode

Your Monitor has four automatic sound settings (**Standard**, **Movie**, **Music** and **News**) that are preset at the factory. You can activate either Standard, Movie, Music, or News by pressing Sound on the remote control (or by making a selection from the menu) or you can select **User** which automatically recalls your personalized sound settings.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Sound main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Sound Mode** and press Menu/Set button to enter the sub menu. Then the mode sub menu appear.
- 5 Select the **User** setting and press Menu/Set button.
- 6 You will see the equalizer bars. Just press Exit button on the remote control. You can adjust each values of equalizer, but the changed values are values of **User** mode.



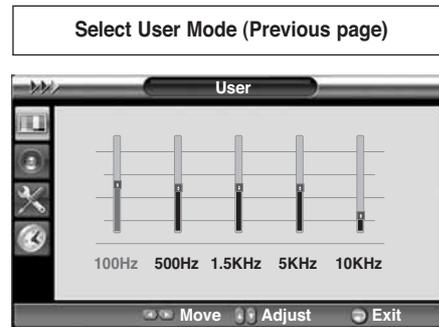
**User mode require more settings.  
It has sub menu: See next page.**

# Setting the Sound

## User Adjust

You can use the OSD menu to change the Treble, Bass, Balance, and DRC according to your preference.

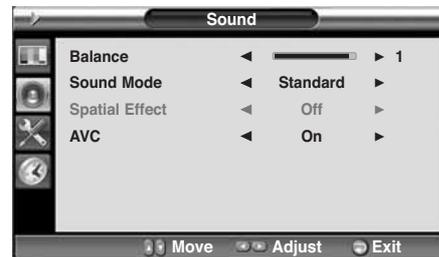
- 1 Equalizer menu appear when you select User mode.
- 2 Select a gain bar with  /  button on the remote control and adjust it with  /  button.
- 3 Press Exit button on the remote control to exit equalizer. The result will be saved automatically.



## Spatial Effect

This function can create surround effect such as the sound seems to come from all directions.

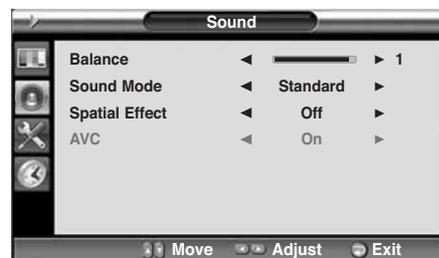
- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Sound main menu item with  /  button.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Spatial Effect** and press VOL+ button.
- 5 Turn on or off spatial effect function with  /  button and press Exit button.



## AVC (Auto Volume Control)

This function adjust sound volume level automatically depending on the source.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Sound main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **AVC** menu. Then the cursor moves into the   parts.
- 5 Turn on or off AVC function with  /  button and press Exit button.



# Setting the Others

In Setup menu, you can adjust the transparency of the OSD menu and set PIP and others.

## Adjusting the Transparency of the OSD Window

Adjust the transparency of the OSD menu. There are 8 step from 0 to 7.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Setup main menu with  /  button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Transparency** menu. Then the cursor moves into the   parts.
- 5 Adjust with   button and press Exit button.



## PIP (Picture in Picture)

You can watch two programs or sources at the same time. And Setup PIP size and position.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Setup main menu with  /  button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **PIP** and press Menu/Set button to enter the sub menu. Then the PIP sub menu appear.



PIP Window



# Setting the Others

## ▶ Changing the Size in PIP

Change the size of the PIP window. There are 3 sizes: Small, Large, Twin.

- 1 Select **Size** and press button.
- 2 Adjust size function with button and press Menu/Set button.



Small



Large



Twin

## ▶ Changing the Source in PIP

Change the source of the PIP window.

- 1 Select **Source** and press Menu/Set button to enter the sub menu. Then the PIP sub menu appear.
- 2 The available sources will be displayed. Select the source and press Menu/Set button.



PIP \ Main	VIDEO1	VIDEO2	S-VIDEO/AV	COMPONENT1	COMPONENT2	PC	DVI	HDMI
VIDEO1	-	✓	✓	✓	✓	✓	✓	✓
VIDEO2	✓	-	✓	✓	✓	✓	✓	✓
S-VIDEO/AV	✓	✓	-	✓	✓	✓	✓	✓
COMPONENT1	✓	✓	✓	-	✓	✓	✓	✓
COMPONENT2	✓	✓	✓	✓	-	✓	✓	✓
PC	✓	✓	✓	✓	✓	-	-	-
DVI	✓	✓	✓	✓	✓	-	-	-
HDMI	✓	✓	✓	✓	✓	-	-	-

# Setting the Others

## ▶ Picture Swap in PIP (Picture in Picture)

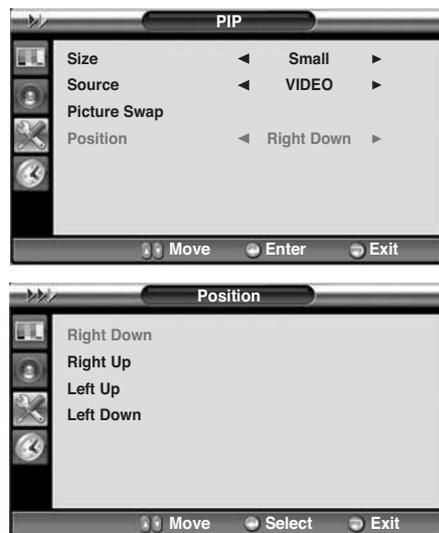
Swap the sources of the main screen and the PIP window.

Select Picture Swap and press Menu/Set button.

## ▶ Position in PIP

Change the position of the PIP window.

- 1 Select **Position** with **▲/▼** button on the remote control and press Menu/Set button to enter the sub menu. Then the PIP sub menu appear.
- 2 In sub menu, there are four positions. Select the position with **▲/▼** button on the remote control and press Exit button.



# Setting the Others

## V-Chip

### ▶ Movie Block in V-Chip

The Movie Block uses the motion picture association of America (MPAA) system, and its main application is for movies. When the rating controls is on, the Monitor will automatically block any programs that are coded with objectionable ratings (either MPAA or Monitor-Ratings).

- 1 Select **Movie Block** with / button on the remote control and press Menu/Set button to enter the sub menu. Then the **Movie Block** sub menu appear.
- 2 You can independently lock the Monitor ratings. The locked Monitor(FCC) ratings are indicated by the symbol.
- 3 Press / buttons and the Menu/Set button to activate the appropriate restrictions for MPAA rating system.



### ▶ Change Password in V-Chip

- 1 Select **Change Password** with / button on the remote control and press Menu/Set button to enter the sub menu. Then the Password change sub menu appear.
- 2 Enter the new password with numeric buttons on the remote control.



### ▶ V-Chip Blocking in V-Chip

- 1 Select **V-Chip Blocking** with / button on the remote control.
- 2 Enter to the part by pressing button. Then the moves cursor into the parts.
- 3 **On or Off the V-Chip Blocking** with / buttons.
- 4 Exit with Exit button on the remote control.



# Setting the Others

## Advanced

You can Set ID, Burn Protect, Blue Back, Language and Front Key Lock in Advanced menu.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Setup main menu with  /  button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Advanced** and press Menu/Set button to enter the advanced menu. Then the **Advanced** sub menu appear.



### ▶ Set ID in Advanced

Set the ID of Monitor for mass-controlling through the serial port.

- 1 Select **Set ID** menu. Then the cursor moves into the   part.
- 2 Adjust with  /  button and press Exit button.



### ▶ Blue Back in Advanced

You can set to display blue-color screen instead of noise screen.

- 1 Select **Blue Back** menu. Then the cursor moves into the   part.
- 2 Turn the function on or off with  /  button and press Exit button.



# Setting the Others

## ▶ Language in Advanced

Set the language to use in OSD.

Supported languages are English, French, Spanish.

- 1 Select **Language** and press Menu/Set button.
- 2 Choose the Language with  /  button and press Exit button.



## ▶ Front Key Lock in Advanced

Lock the OSD panel of the Monitor. It can protect the Monitor from children's power On/Off or other operation by miss.

- 1 Select **Front Key Lock** and press VOL+ button to enter the ◀▶ parts. Then the cursor moves into the ◀▶ parts.
- 2 Turn the function on or off with  /  button and press Exit button.



## ▶ Burn Protect in Advanced

The Monitor may be damaged from displaying a static image long time (over 30 minutes). It is called as image sticking, and burn protect function moves image regularly to relieve image sticking. You can set the moving range of burn protection function. (How much the image will move.) Burn Protection function moves image 1 pixel per 2 minutes, and the set range, image starts to go back to the original position.

- 1 Select **Burn Protect** menu. Then the cursor moves into the ◀▶ parts.
- 2 Turn the function on or off with  /  button and press Exit button.



## ▶ Burn Clear in Advanced

This function will be used for removing sticking image on the screen.

- 1 Select **Burn Clear**.
- 2 Turn the function on Menu/Set button and press.



# Setting the Time

In the Time menu, you can set the current time and auto power On/Off.

## Setting the Current Time

Set the current time.

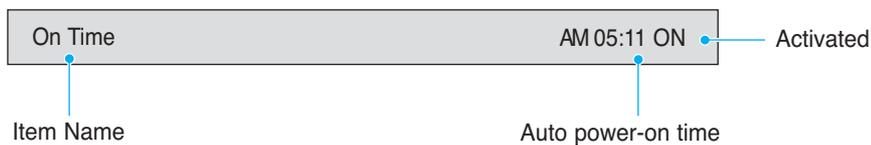
- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Time Set** by pressing  button.
- 5 Move the cursor by pressing  /  button and adjust time by  /  button.



## Setting the On Time

This Monitor can be set to turn on automatically at specific time that you choose. Before using the timer, you must set the Monitor's Time as described previously.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu with  /  button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **On Time** with  /  button and press  button.
- 5 Move the cursor by  /  button and adjust time by  /  button.



# Setting the Time

## Setting the On Volume

Set the sound volume level when the Monitor power on automatically.

Available only when the time is set and On Time is ON.

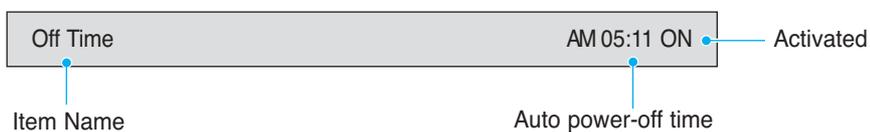
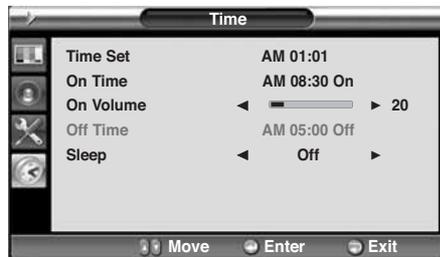
- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu with  /  button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **On Volume**.
- 5 Then the cursor moves into the   parts.
- 6 Adjust the sound volume level with  /  button.



## Setting the Off Time

This Monitor can be set to turn off automatically at specific times that you choose. Before using the timer, you must set the Monitor's clock as described previously.

- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu with  /  button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Off Time** with  /  button on the remote control and press  button.
- 5 Move the cursor with  /  button and adjust time with  /  button.



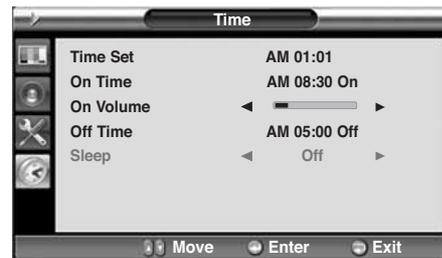
# Setting the Time

## Setting the Sleep Timer

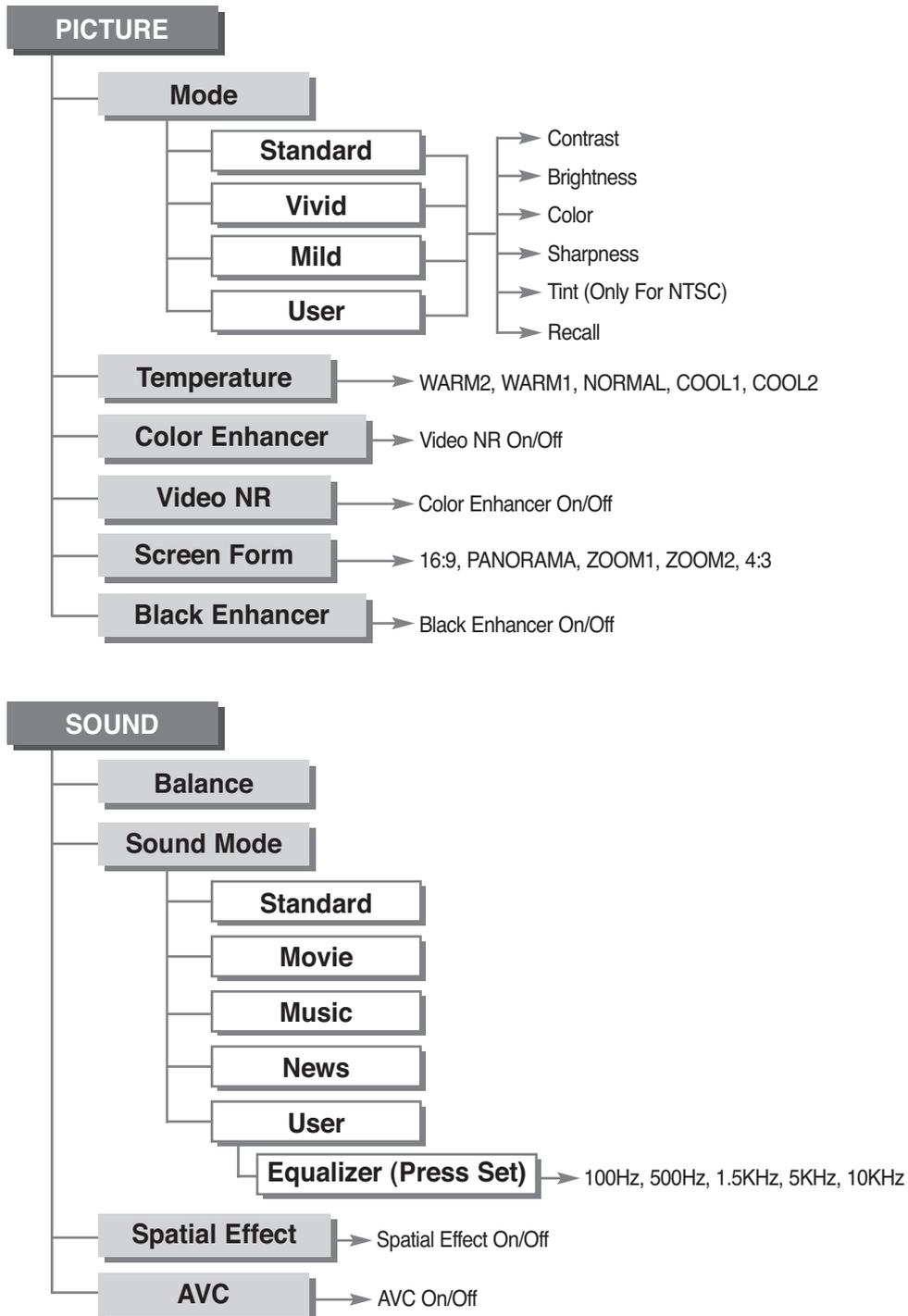
You can set your the Monitor to automatically turn off after a preset interval.

If you turn off the Monitor in the state of setting up sleep time and turn on again, sleep time erased therefore Setup again. The time period runs from OFF (0min) to 180min. (OFF, 10min, 20, 30, 60, 90, 120, 150, 180)

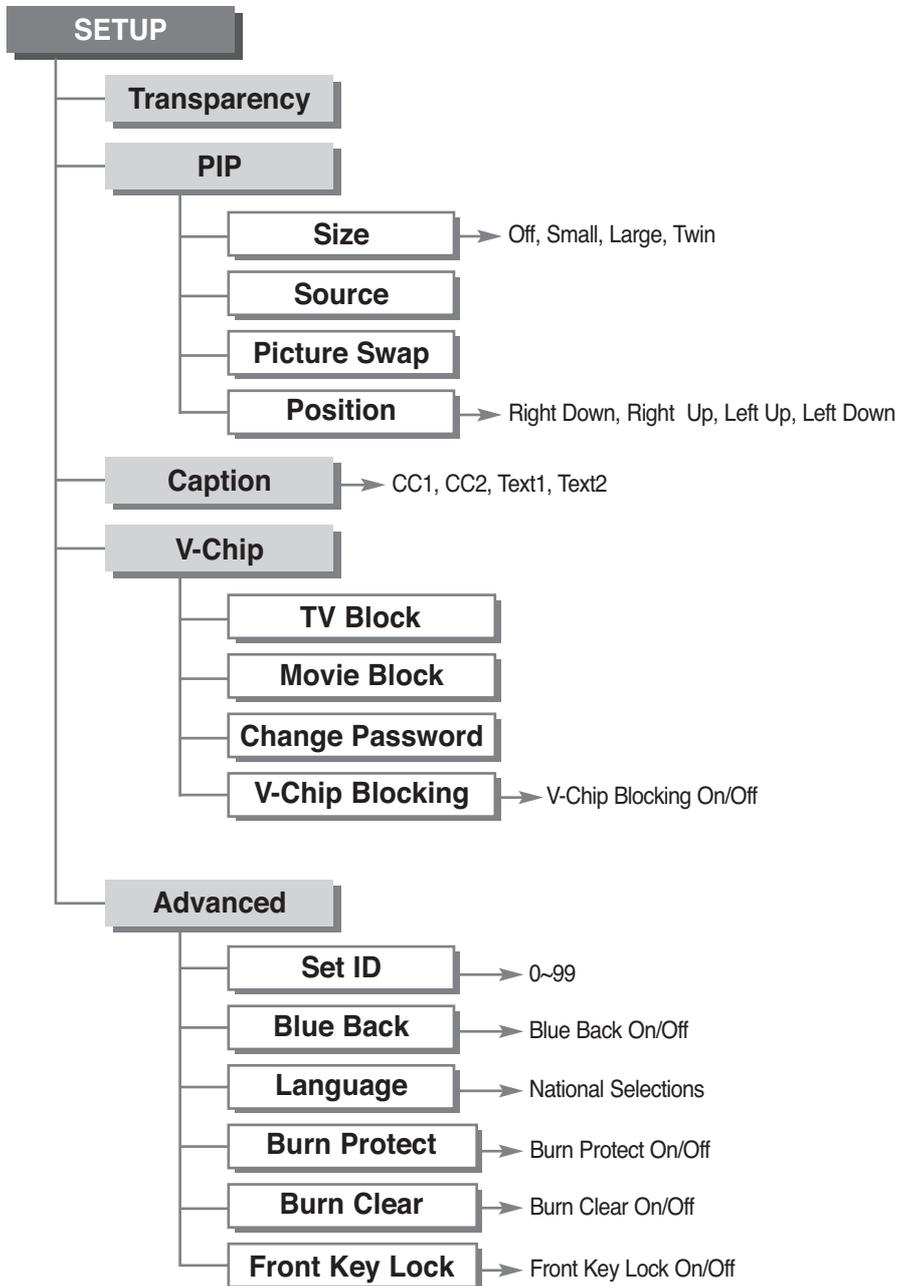
- 1 Press Menu/Set button to display the main OSD menu.
- 2 Select the Time main menu. with  /  button on the remote control.
- 3 Press Menu/Set button to enter the sub menu.
- 4 Select **Sleep** with  /  button on the remote control and press  button.
- 5 Then the cursor moves into the   parts.
- 6 Set the time period with  /  button. Press Exit button to return.



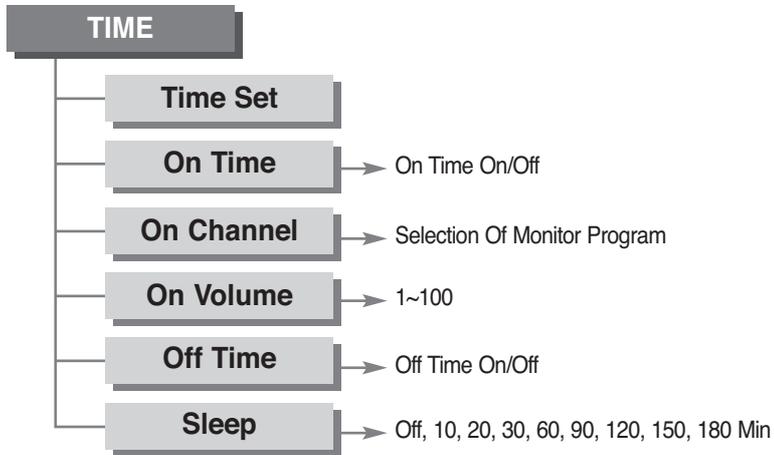
# OSD Menu Tree



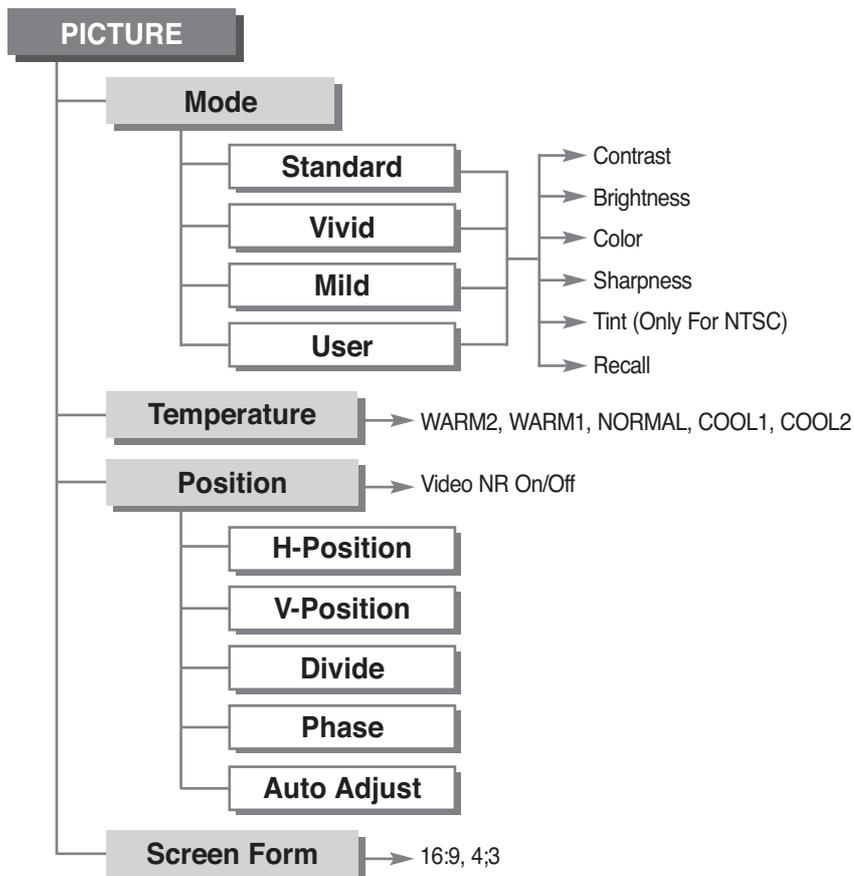
# OSD Menu Tree



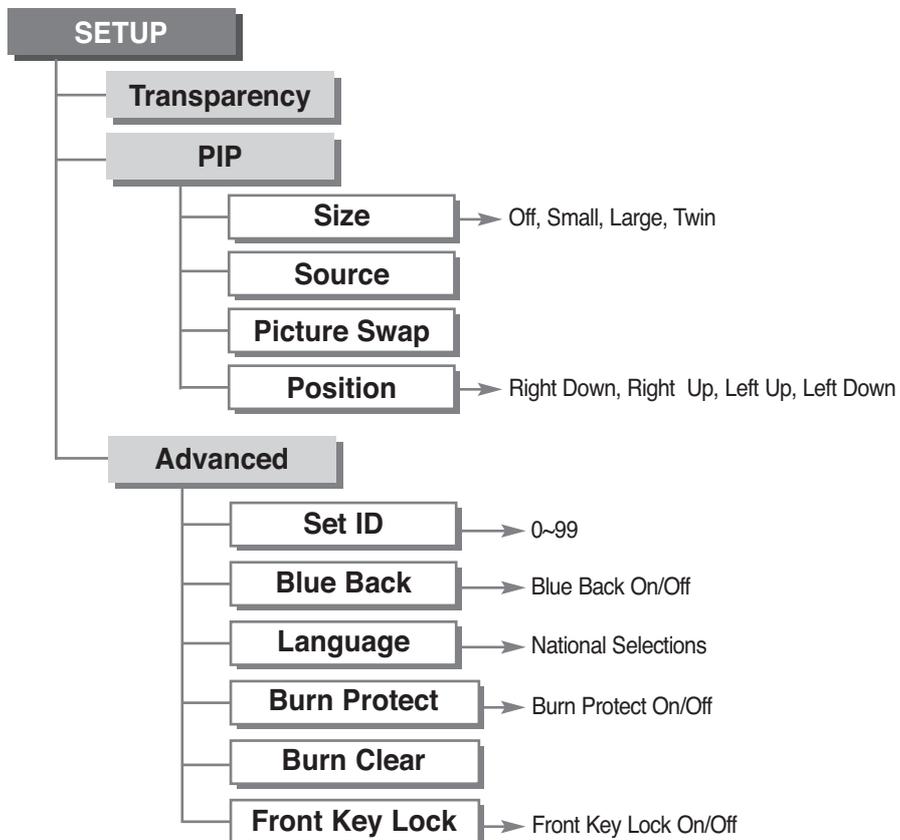
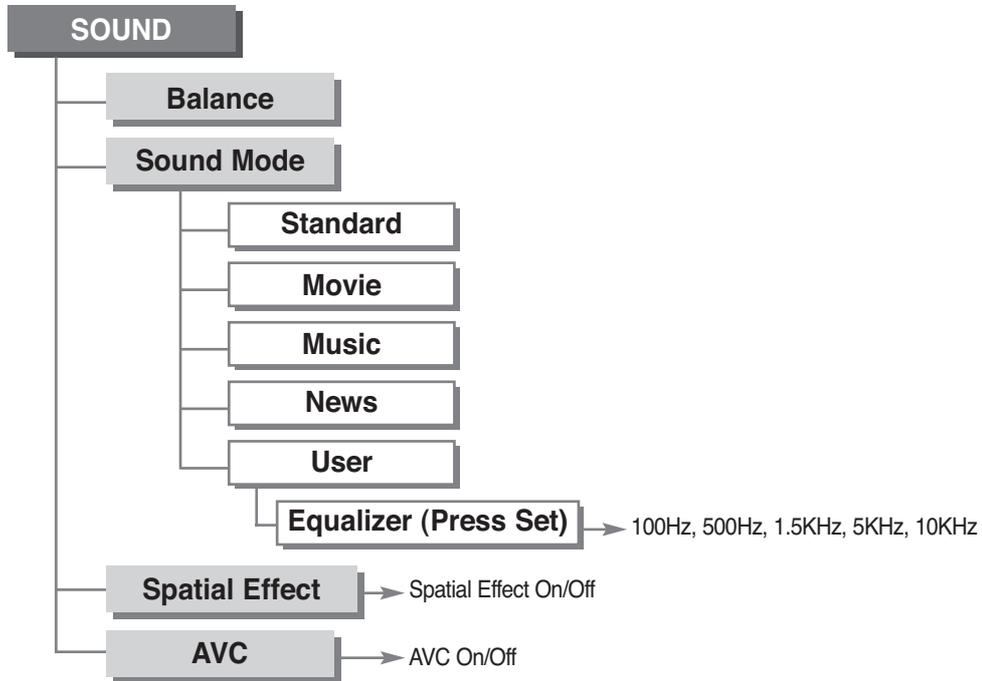
# OSD Menu Tree



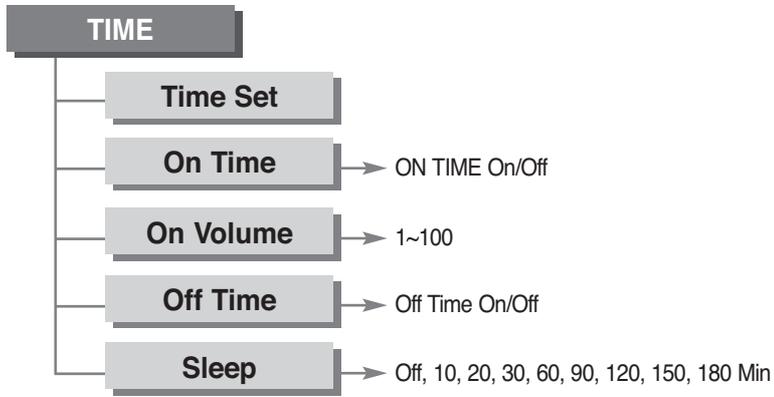
## [ PC MODE ]



# OSD Menu Tree



# OSD Menu Tree



# Troubleshooting

If your Monitor is not working properly, please scan this list of problems and possible solutions. It may save you time and money.

Problem	Quick Action for Possible Solution
No picture & no sound	<ul style="list-style-type: none"> <li>• Check whether the Monitor is turned on.</li> <li>• Power cord inserted into wall outlet?</li> <li>• Plug another product's power cord into the wall outlet where the Monitor's power cord was plugged in.</li> </ul>
Picture Ok & No sound	<ul style="list-style-type: none"> <li>• Press the VOL ( <math>\wedge</math> ) button.</li> <li>• Check the audio input signal.</li> </ul>
The remote control doesn't work	<ul style="list-style-type: none"> <li>• Check to see if there is any object between the Plasma Display and the remote control causing obstruction.</li> <li>• Check to see if the batteries are installed with the correct polarities.</li> </ul>
Digital broadcasting screen problem	<ul style="list-style-type: none"> <li>• Check the digital signal strength and input antenna.</li> </ul>
No or poor color or poor picture	<ul style="list-style-type: none"> <li>• Select color in the picture and press  button.</li> <li>• Keep a certain distance between the Monitor and the VCR.</li> <li>• Activate any function to restore the brightness of the picture.</li> <li>• Check to see that both the Monitor and the source are plugged in and turned on.</li> </ul>
The image is too light or too dark	<ul style="list-style-type: none"> <li>• Adjust the brightness or contrast settings.</li> </ul>
The image is too large or too small	<ul style="list-style-type: none"> <li>• Adjust the size settings.</li> </ul>
No output from one of the speakers	<ul style="list-style-type: none"> <li>• Adjust Balance in the sound menu.</li> </ul>
Strange sound from the Monitor	<ul style="list-style-type: none"> <li>• Typical sound due to normal Monitor operation, Monitor is not faulty.</li> </ul>

# Specification - 42" PDP Monitor

42" Plasma Monitor	
Function and Display Specification	
Display Size	42-Inch 16 : 9 Diagonal Screen
Display Mode	Variable 5 Modes (4:3 Mode / 16:9 X 4 Modes)
Pixel Format	852 X 480 Physical Pixel
Contrast Ratio	10000 : 1 (Max)
Brightness	1500 cd/m <sup>2</sup> (Max)
Max Input Resolution	1280 X 1024 / 60Hz
PIP	Advanced multi-windows viewing PIP (picture in picture) with four selectable window positions on Video mode
Input Compatible	Multiple input compatible
Video	Advanced motion digital / Motion-Adaptive De-interlace process, Digital progressive line scaling.
Programming	Time Set, Set the Sleep timer
HDTV Input	480i/p (60Hz), 576i/p (50Hz), 720p (50/60Hz), 1080i (50/60Hz)
Color Temperature	Selectable 5 Mode (Warm1, 2, Normal, Cool1, 2)
Dimension/Weight	
Main Only	1220mm (W) x 645mm (H) x 87mm (D) / 34Kg
With Stand	1220mm (W) x 708.4mm (H) x 305mm (D) / 41.2Kg
With Wall Mount	1220mm (W) x 645mm (H) x 122mm (D) / 38.5Kg
Miscellaneous	
Audio	Built-in amplifier and two speaker (7Watt/Typ.) systems (optional), Selectable fixed/variable audio output (optional)
External Control	Front OSD Key Control, Remote Control, RS232C Control
Power Consumption	
Input Power	AC 100 ~ 240V 50/60Hz
Power Consumption	300 Watt (Max)
Connectivity	
Composite Input/Output	RCA X 4Port (AV Input 1, 2, 3 / AV Output 1)
Component1, 2 Input	RCA X 2Port (Y, Pb/Cb, Pr/Cr : 480i, 480p, 576i, 576p, 720p, 1080i)
S-VIDEO Input	Mini Din 4Pin X 1Port
PC Input	Mini D-Sub 15Pin X 1Port / HDTV Input (480p, 576p, 720P(50/60Hz), 1080i(50/60Hz))
DVI Input	Mini D-Sub 29Pin X 1Port / HDTV Input(480p, 576p, 720P(50/60Hz), 1080i(50/60Hz)) / HDCP(Factory Option)
Audio Input/Output	RCA X 6Port
Speaker Output	Cinch Type X 4Port (Stereo L/R), Head Phone Jack X 1Port
External Control Port	Mini D-Sub 9Pin X 1Port
HDMI Port	HDMI X 1Port

The specifications shown above may be changed without prior notice for quality improvement.



# Memo

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# Memo

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