

Philips Professional & Business Solutions



EN User Manual



TYPE Nr. BDH5031V.00

PHILIPS

1. SAFETY PRECAUTIONS



DISPOSAL OF USED ELECTRICAL & ELECTRONIC EQUIPMENT

The meaning of the symbol on the product, its accessory or packaging indicates that this product shall not be treated as household waste. Please, dispose of this equipment at your applicable collection point for the recycling of electrical & electronic equipments waste. In the European Union and Other European countries which there are separate collection systems for used electrical and electronic product. By ensuring the correct disposal of this product, you will help prevent potentially hazardous to the environment and to human health, which could otherwise be caused by unsuitable waste handling of this product. The recycling of materials will help conserve natural resources. Please do not therefore dispose of your old electrical and electronic equipment with your household waste. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



ROHS •DIRECTIVE 2002/95/EC• COMPLIANT

This environment-friendly product does not contain the EU RoHS restricted substances (Pb, Hg, Cd, Cr6+, PBB, and PBDE).

ALWAYS OBEY ALL SAFETY MESSAGES

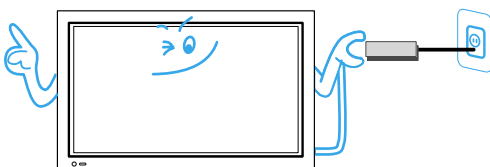
- All the safety and operating instructions should be read before the product is operated. If anything strange happens, unplug this product from the wall outlet.
- Do not disassemble or replace any parts of the Monitor. Refer to a qualified service personnel for repair.



WARNING

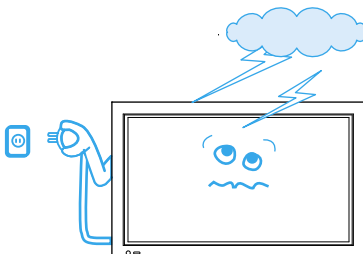
You can be killed or seriously injured if you do not follow these instructions.

1.1 POWER



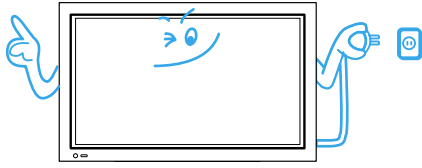
This product must be properly grounded.

- Improper grounding may cause malfunction or electric shock.
- When proper grounding is not possible, install circuit breaker.
- Do not ground to gas pipe, water pipe, lightning rod, or telephone line.
- An apparatus with CLASS I construction shall be connected to a MAINS socket outlet with a protective earthing connection.



During a lightning storm, or when it is left unattended and unused for a long period of time, unplug it from the wall outlet.

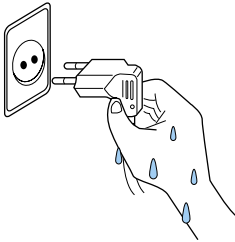
- It can result in fire.



When unplugging your Monitor, always grip the plug firmly and pull straight out from the socket.

• It can result in fire or electric shock due to damaged power cord.
When moving your Monitor, remove the power plug, and cables, and be sure to move it by using two people.

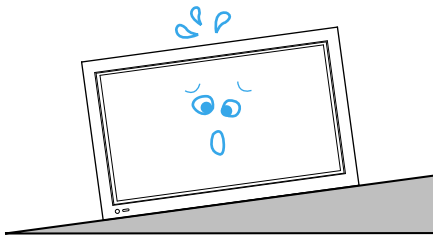
• Failure to follow this instruction can result in electric shock or personal injury.



Do not touch the power plug with wet hands when plugging or unplugging it into the wall socket.

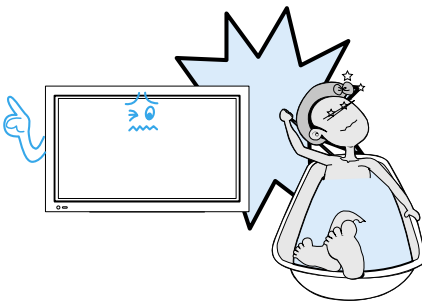
• It can result in a risk of electric shock.

1.2 INSTALLATION



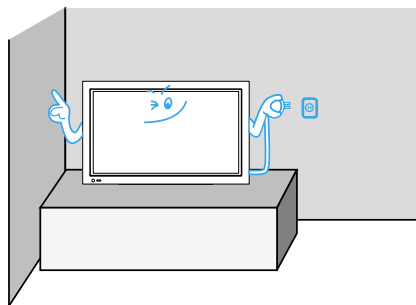
Do not place this Monitor on an unstable cart, stand, or table.

• It may cause the product and cart to overturn, damaging equipment or causing possible injury.

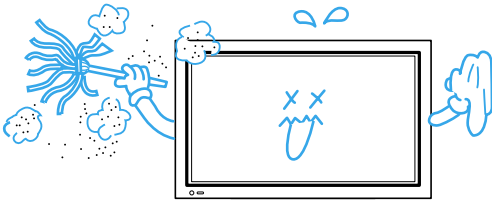


Do not use this product in the neighbourhood of a bath or shower.

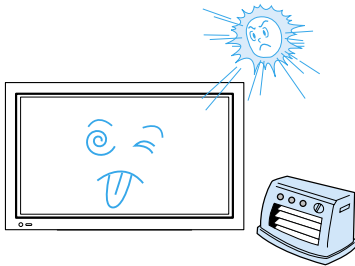
• It can result in electric shock or fire.



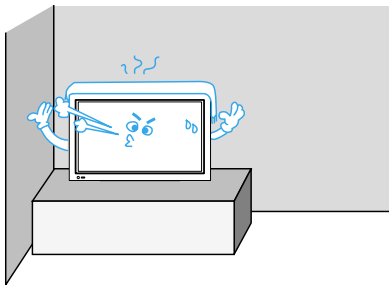
Please place the Monitor set in such a way that the main plug can be easily disconnected.



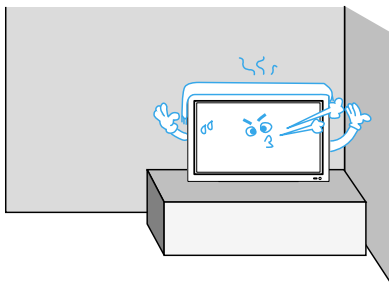
Do not install the product where there is oil, smog, moist, or dust.
• It may cause malfunction.



Do not install the product where it will be exposed to the direct sunlight, and the product should not be near heat sources such as radiators, stoves, etc.
• It may cause malfunction.



For proper ventilation, separate the product from the wall, and keep a distance of more than 10 cm (4 inches).
• Due to the increase of temperature inside the Monitor, it may cause fire.

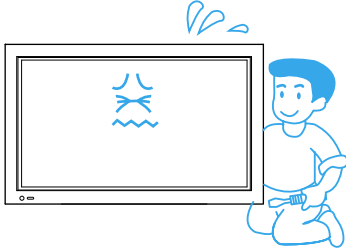


Minimum distances around the apparatus for sufficient ventilation.
Due to the increase of temperature inside the Monitor, it may cause a fire.



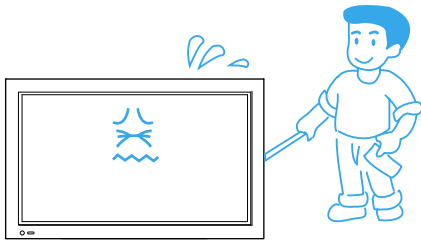
If you wish to install this product on the wall or ceiling, refer to a professional.
• Failure to do so may cause damage to product and injury to human.

1.3 DURING USE



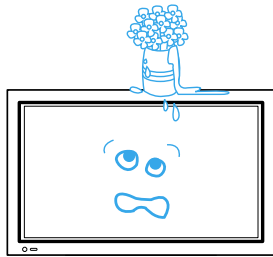
Do not open the cover (or back) because high voltage is present within the Monitor enclosure.

- It may cause electric shock.



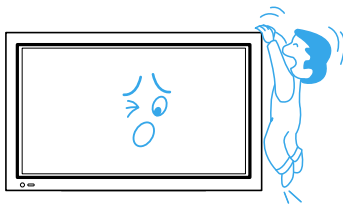
Never push any kind of objects into this product through openings at the back of Monitor.

- It may cause fire or electric shock.



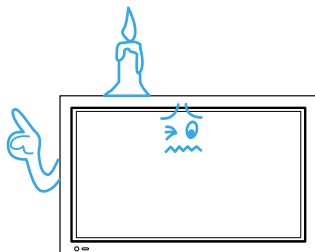
The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.

- Spilled liquids may cause electric shock or fire.



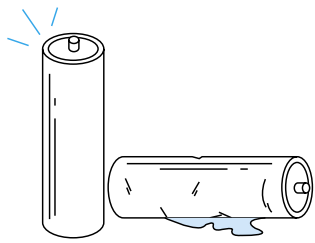
Do not allow children to play or hang on the Monitor.

- These actions may tip it over, causing personal injury.



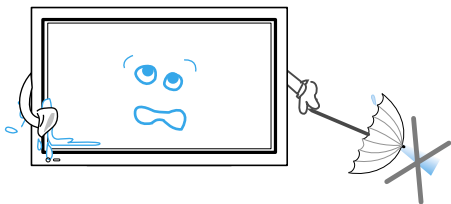
Do not place a candle or lighted cigarette on the Monitor.

- If these fall into the inside of the Monitor, it may cause a fire or explosion.



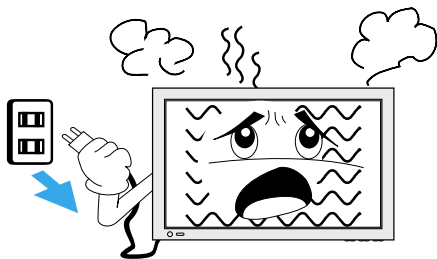
Do not disassemble batteries, and do not leave around in case children swallow them.

- Heavy metal may contaminate environment, and can be harmful or detrimental to human health. (If children swallow the batteries, go to hospital and consult with a doctor.) Batteries could explode if fitted incorrectly. Align the batteries according to the (+) and (-) indication inside the case.



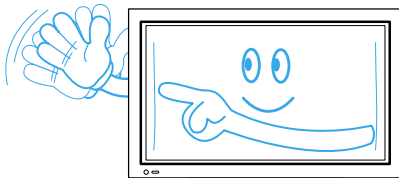
Do not spray water onto the Monitor or wipe with damp cloth.

- It may cause an electric shock or fire.



Unplug the Monitor from the wall outlet when smoke or a strange smell occurs, then refer to a service personnel.

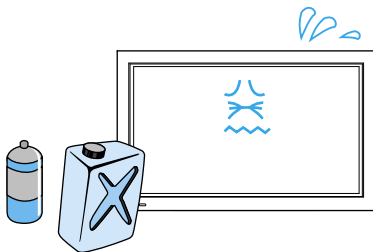
- Leaving the Monitor on in this condition, may cause fire or electric shock.



The plasma display panel consists of fine cells. Although the panels are produced with more than 99.9 percent active cells, there may be some cells that do not produce light or remain lit.

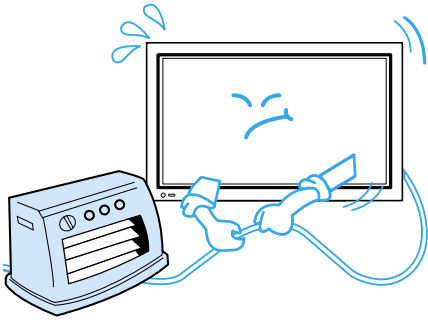
Do not allow a still picture to be displayed for an extended period, as this can cause a permanent ghost image to remain on the Plasma Display.

- Examples of still pictures include logos, video games, computer images, teletext and images displayed in 4:3 mode. The warranty does not cover any damage caused by image retention.



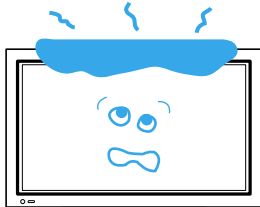
Do not wipe the Monitor using a cloth damped with chemicals (benzene, thinners, etc.).

- The Monitor appearance may be marred.
(Unplug the power plug and wipe with soft cloth.)



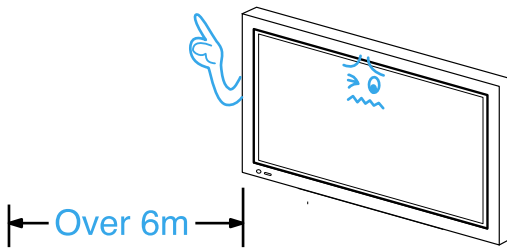
Do not place heavy objects or heat sources on the power cord.

- It may damage the power cord, causing fire or electric shock.



Do not place any object or cover on the Monitor.

- In an event of improper ventilation, the Monitor will be overheated causing fire.



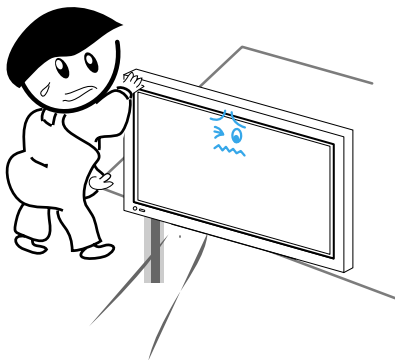
When watching the Monitor, the distance between the Monitor screen and your eye should be 5~7 times the diagonal size of the Monitor.

- Watching the Monitor for a long time may hurt your eye sight.



When cleaning of the inside of the Monitor is required, consult a qualified service personnel.

- When the Monitor is not cleaned for a long period of time, dust in it may cause fire or malfunction.



When the Monitor is placed on a cart or table, the front side of the Monitor should not project outward.

- Unbalance may cause the Monitor to drop, resulting in personal injury or equipment malfunction and damage.

2. CHECKING ACCESSORIES

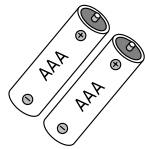
2.1 SUPPLIED ACCESSORIES

Check to be sure that the following items are packed with your Plasma panel.

- | | |
|-----------------------------------|---------|
| 1. Remote Control | 1 UNIT |
| 2. Batteries | 2 UNIT |
| 3. EDFU | 1 UNIT |
| 4. VGA Cable | 1 UNIT |
| 5. Ferrite Core | 1 UNIT |
| 6. AC Power Cable
(UK, Europe) | 2 UNITS |



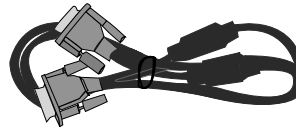
Remote Control



Batteries



EDFU



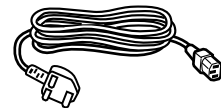
VGA Cable



Ferrite Core



Power Cable Europe

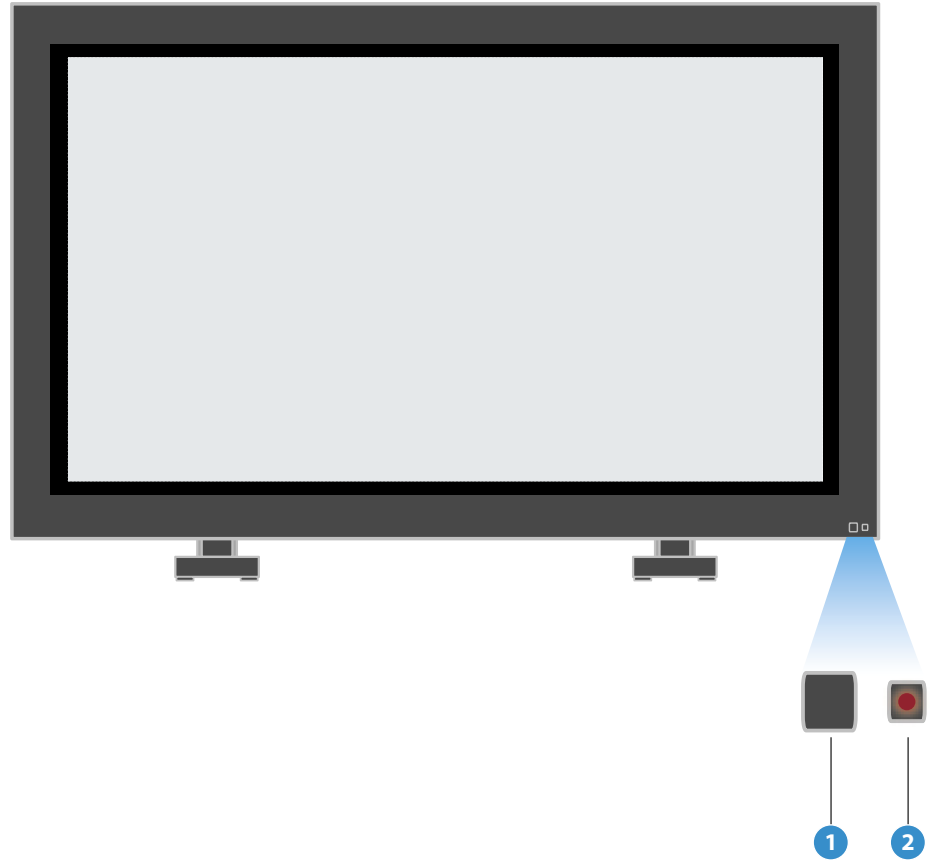


Power Cable UK

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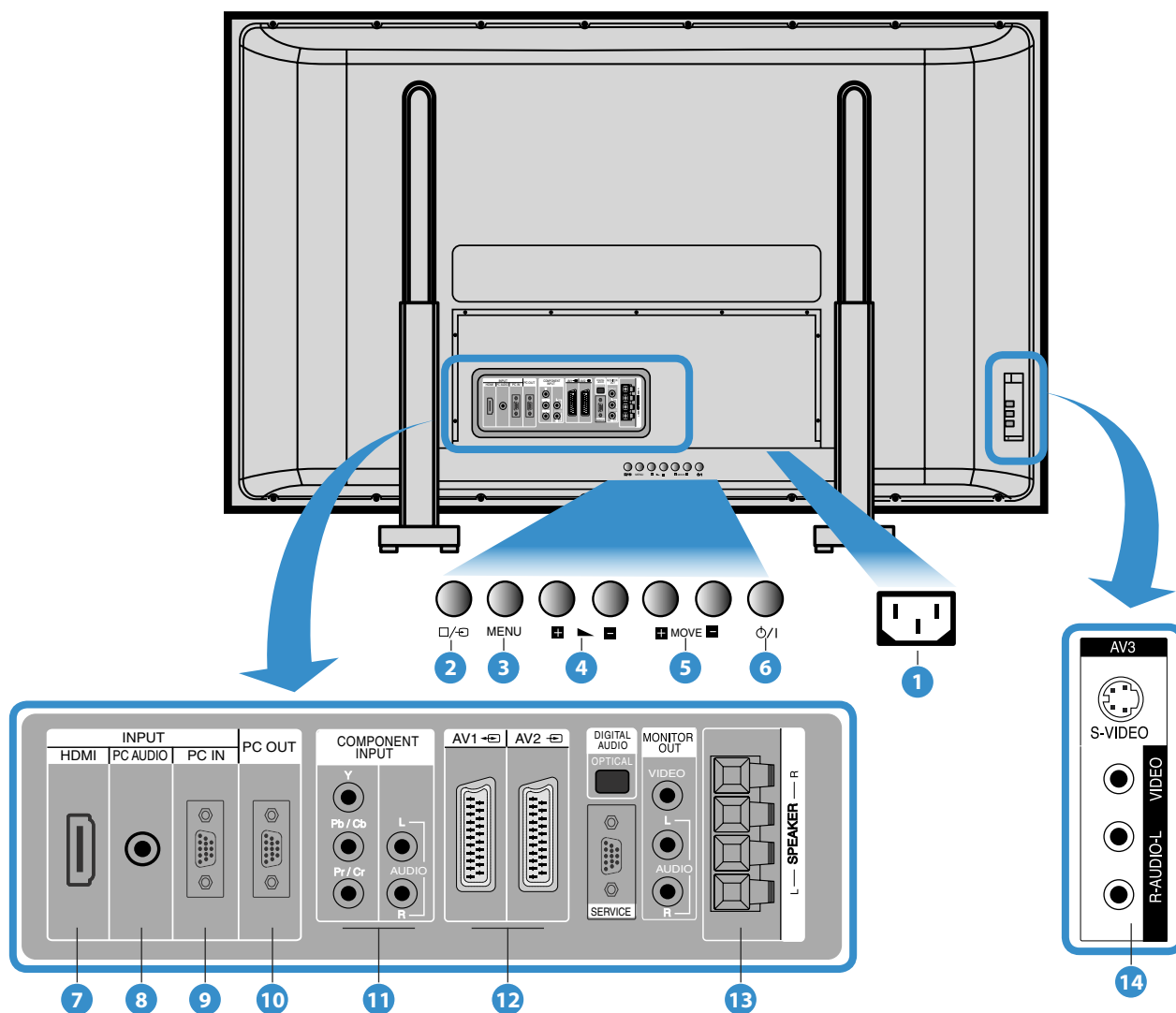
3. PANEL CONTROLS



3.1 FRONT PANEL

* Items having the same name on the plasma display and the remote control would function in exactly the same way.

1. Power control sensor
2. Power Stand by:
Red : Stand by
Green : ON



3.2 REAR PANEL

1. Power cord input

2. AV button

3. Menu button

Use this button to enter and exit the MENU.

4. Volume UP/DOWN buttons

Use these buttons to change your TV's volume or to move the cursor in the menu.

5. Move Buttons

Use these buttons to navigate through the the On Screen Display menu.

6. Main Power button

Use this button to switch TV to Stand By mode or TV ON mode.

7. HDMI INPUT

8. PC AUDIO INPUT

9. PC INPUT (15 pin D-sub)

10. PC OUTPUT (15 pin D-sub)

11. COMPONENT A/V jacks

12. SCART, A/V INPUT/OUTPUT

13. External Speaker

14. AV3 INPUT

4. REMOTE CONTROL

Note:

- Use two "AAA" batteries.
- Be sure to use replacement batteries of the same type as the original ones.
- The life of a battery depends on how much it has been used.

4.1 REMOTE CONTROL

Power button - while the AC power cord is connected, turn the display ON (Green light) or OFF (red light stand-by).

P.MODE button - Whenever pressing the button, it cycles in the following order. Normal → Dynamic → Cinema → User

PICTURE FMT button - Adjusts the size of the screen (Normal, 16:9, etc).

AV button - Use this function to make video input selection. It changes in the following sequence: AV 1 → AV 2 → AV 3 → Component → PC → HDMI.

S.MODE button - Whenever pressing the button, it cycles in the following order: Normal → Movie → Music → News → User.

S.EFFECT button - Press to use a spatial sound effect.

PIXEL SHIFT button - The whole screen shifts up/down, left/right at 25 sec interval to minimize image sticking.

PIP; POSITION; PIP SOURCE; SWAP - PIP buttons.

COLOR TEMP button - Change the colour mood of the panel.

RECALL button - Indicates the current state and resolution.

Menu button - Used to display a desired menu.

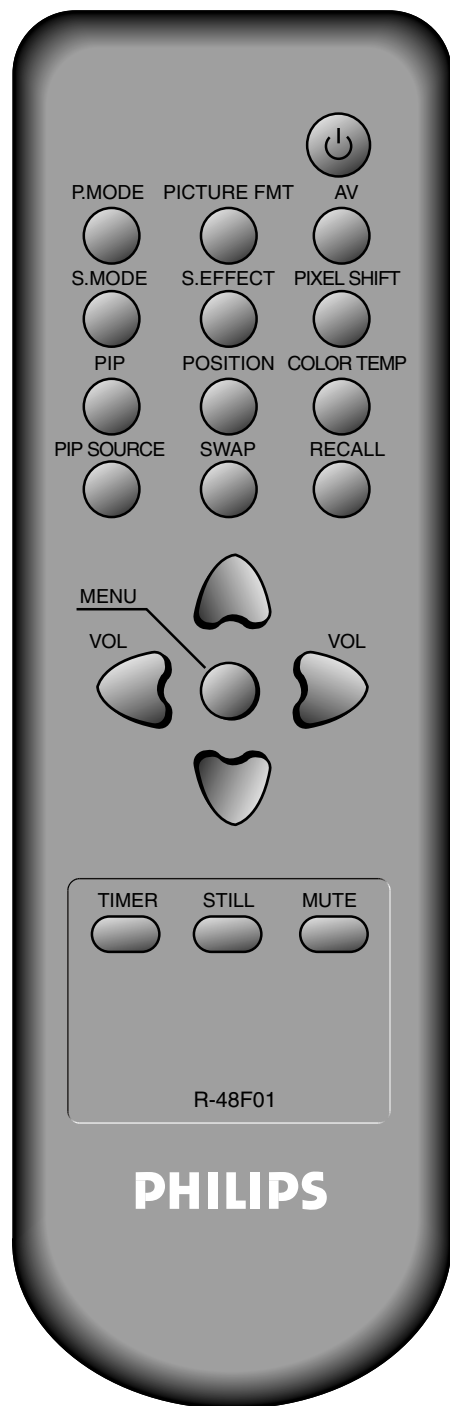
Volume buttons "◀ / ▶"

Timer button - Each time you press this button, a different input mode appears. The sequence is as follows: 15Min. → 30Min. → 60Min. → 90Min. → 120Min. → OFF

After the time is selected, it automatically becomes stand-by state.

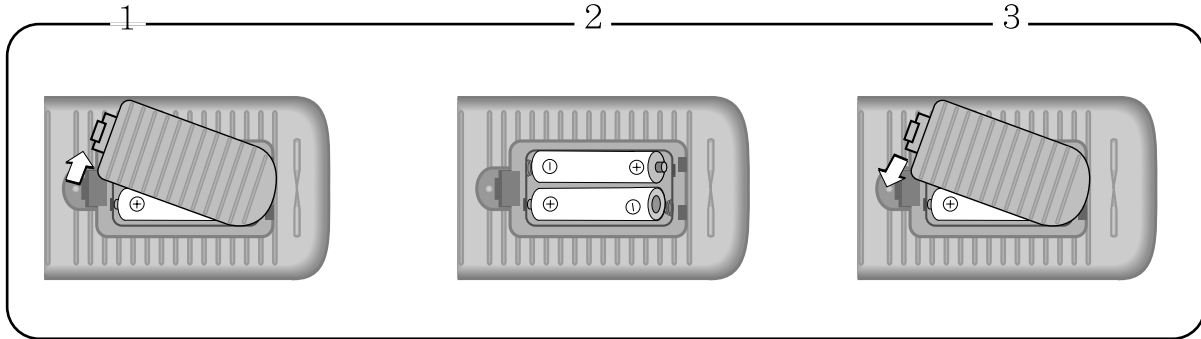
STILL button - Press this button to freeze the picture.

Mute button - Mute sound.



4.2 INSTALLING THE BATTERIES IN YOUR REMOTE CONTROL

1. Open the battery compartment on the back of the remote control.
2. Install two AAA-size batteries (not included) as shown. Make sure the "+" and "-" terminals are oriented correctly.
3. Replace the cover.



4.3 WHEN USING REMOTE CONTROL

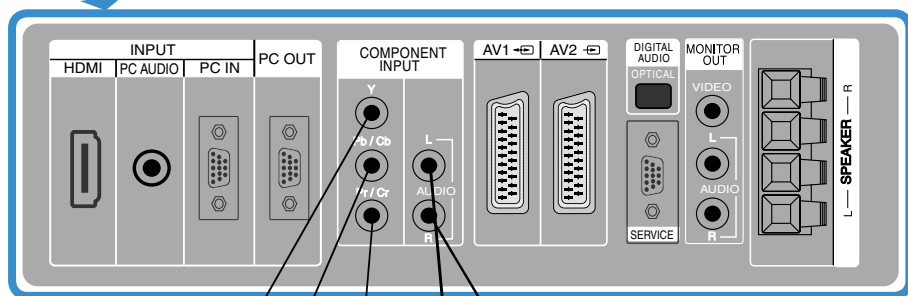
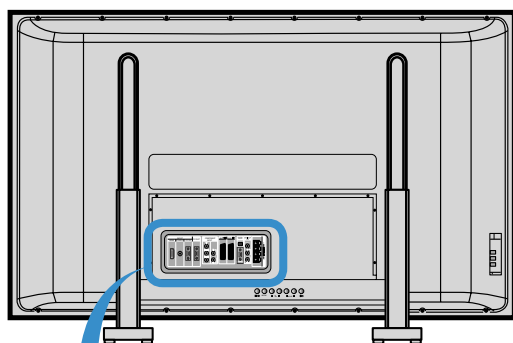
- Be sure not to allow the remote control to drop or to become wet.
- Keep it away from hot or moist locations.



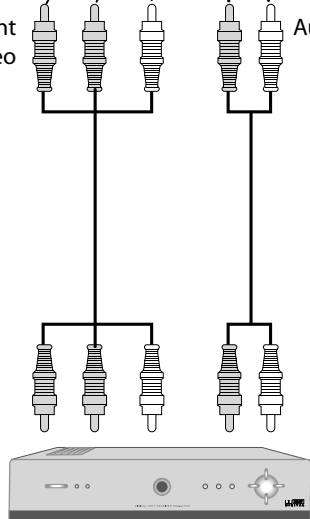
5. CONNECTING WITH AN EXTERNAL SOURCE

5.1 WATCHING DIGITAL BROADCASTS

- To watch digital broadcasts:
 - Purchase a separate Digital Broadcasting Receiver (SET-TOP BOX).
 - Connect the PDP to a Digital Broadcasting Receiver as shown left.



Component Video Audio



1. Connect a Digital Broadcasting Receiver to the PDP.

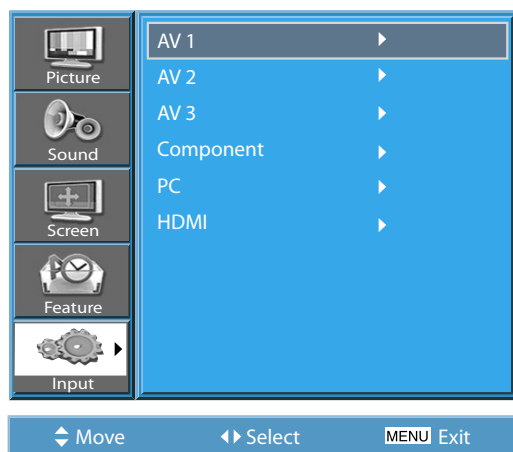
- Prepare A/V cables.
- Connect the cables from the digital TV Receiver output terminal to the PDP (Component) input terminal.
- When connecting the cables, be sure to match the cable colours.

2. Press the Power Buttons.

- Turn the PDP and the receiver ON.

3. Input Select.

- Select [Component] by pressing the "AV" button of the remote control or using the button of the PDP unit.
- When you press the "AV" button, you will see the OSD as shown. You can move using "▲/▼" and select desire input mode with "◀/▶" button.



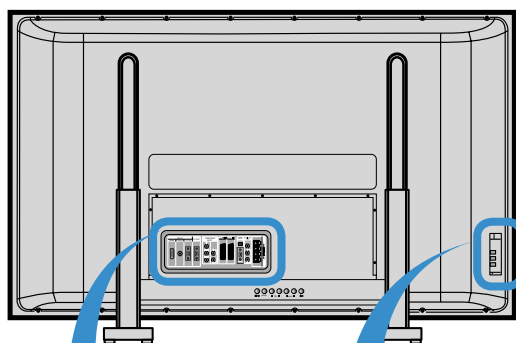
4. Select the Desired Channel and Function.

- Select the desired channel and function by using the remote control of the Digital Broadcasting Receiver.

Notes:

- 1) Possible digital broadcasting signals: 1080i, 720p, 576p, 576i, 480p, 480i.
- 2) What is a component?: Signals with which luminance and chrominance are separated, producing a sharp picture.
- 3) If the Digital Broadcasting Receiver has PC output terminal or HDMI output terminal, connect to 'PC INPUT' or 'HDMI INPUT' at the rear of the panel of the PDP.

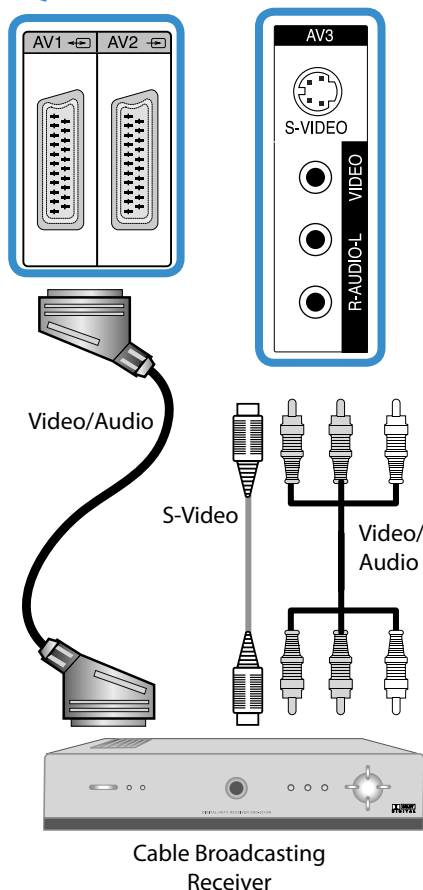
5.2 WATCHING CABLE BROADCASTS



- To watch cable broadcasts, subscribe to your local cable TV broadcasting, and then connect a cable Broadcasting Receiver to the PDP as shown left.

1. Connect a Cable Broadcasting Receiver to the PDP.

- Prepare the A/V cable.
- Connect the receiver (Output) to PDP (Video Input) as shown below.
- **N.B. :** If both S-Video and Video/Audio (RCA) cables are connected together in AV3 input, S-Video always takes precedence. However, the left and right audio leads should be connected for the sound even though you would like to use S-Video as AV3 input.



2. Press the Power Buttons.

- Turn the PDP and the receiver ON.

3. Input Select.

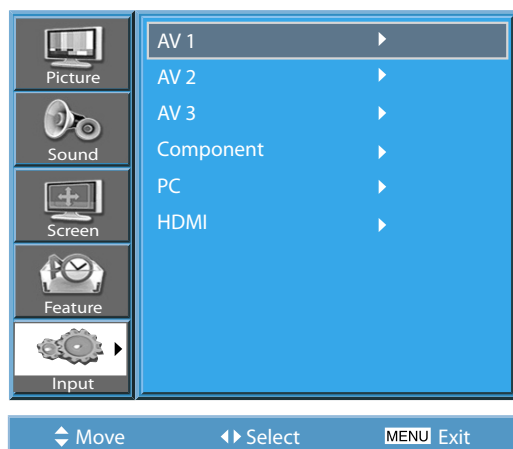
- Select [AV 1 (Scart), AV 2 (Scart) or AV3 (S-Video)] by pressing the "AV" button of the remote control or the in keypad of the PDP unit.
- When you press the "AV" button, you will see the OSD as shown. You can move using "▲/▼" and select desire input mode with "◀/▶" button.

4. Select the Desired Program and Function.

- Select the desired program and function by using the remote control of the Cable Broadcasting Receiver.

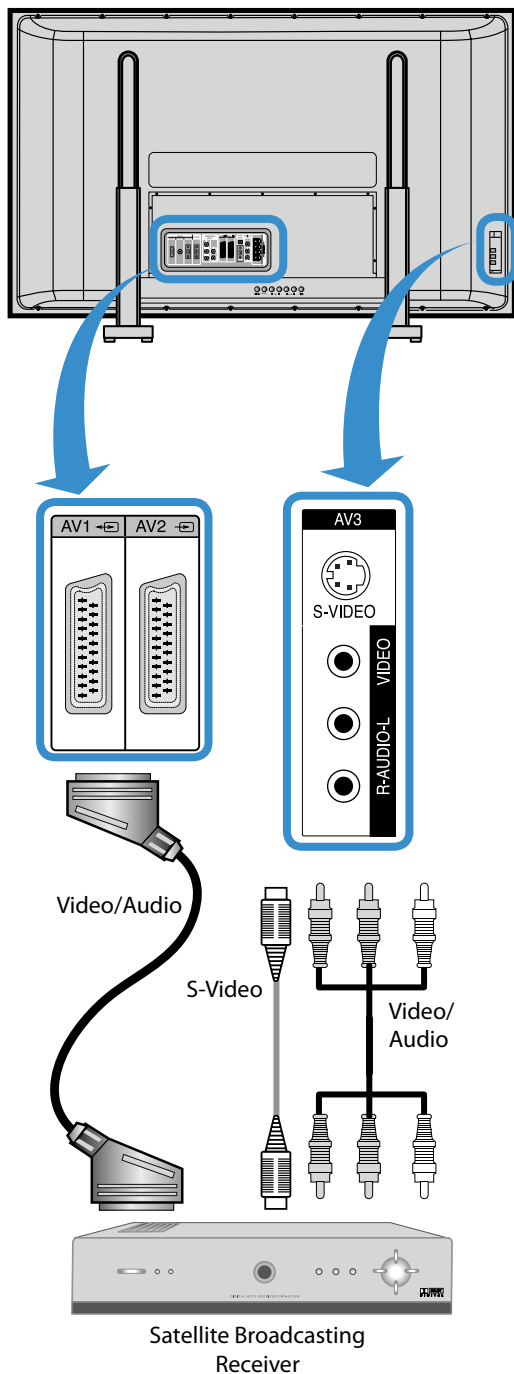
Notes:

- 1) If your local cable company re-transmits digital broadcasts, you may watch normal broadcasts and digital broadcasts simultaneously. For detailed information, refer to your local cable company.
- 2) Only AV1 provides 'Monitor Out' function.
- 3) AV1 full scart (RGB/CVBS).
- 4) AV2 half scart (CVBS).



5.3 WATCHING SATELLITE BROADCASTS

- To watch satellite broadcasting, subscribe to Digital Satellite Broadcasting, then connect the satellite Broadcasting Receiver to the PDP as shown left.



1. Connect a Satellite Broadcasting Receiver to the PDP.

- Prepare the A/V cable.
- Connect the receiver (Output) to PDP (Video Input) as shown left.
- When connecting to an external AV source, be sure to match the colours.
- **N.B. :** If both S-Video and Video/Audio (RCA) cables are connected together in AV3 input, S-Video always takes precedence. However, the left and right audio leads should be connected for the sound even though you would like to use S-Video as AV3 input.

2. Press the Power Buttons.

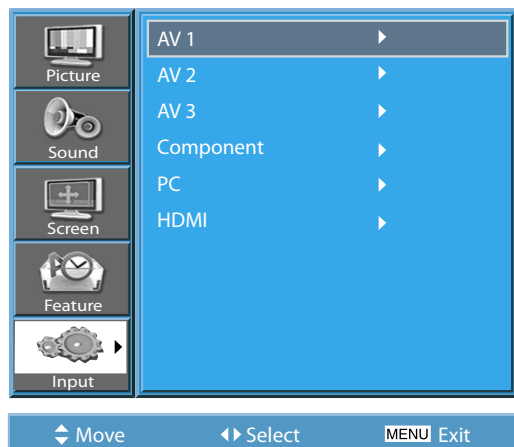
- Turn the PDP and the Satellite receiver ON.

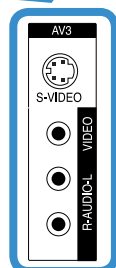
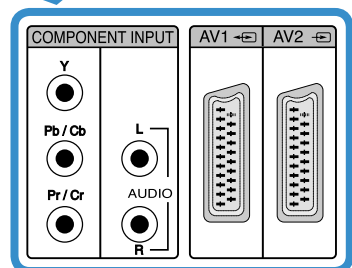
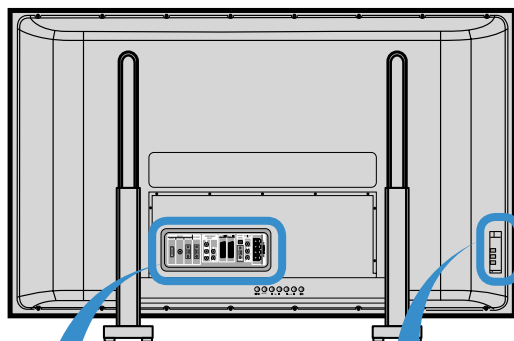
3. Input Select.

- Select [AV 1 (Scart), AV 2 (Scart) or AV3 (S-Video)] by pressing the [AV] button of the remote control or the in keypad of the PDP unit.
- When you press the "AV" button, you will see the OSD as shown. You can move using "▲/▼" and select desire input mode with "◀/▶" button.

4. Select the Desired Program and Function.

- Select the desired program and function by using the Remote Control of the Satellite Broadcasting Receiver.





5.4 WATCHING A DVD IMAGE

- Component Input is set to 480i/576i and 480p/576p mode.
- Connect the cable from the DVD Video output (Y, Pb/Cb, Pr/Cr) to the Component Input at the back of PDP, and connect the cable from DVD audio output (Left, Right) to the Audio Input at the back of PDP.

1. Connect a DVD Player to the PDP.

- Prepare the AV cable.
- Connect the DVD (Output) to the PDP (Component or Video Input) as shown below.
- When connecting to an external AV source, be sure to match the colours.

• **N.B. :** Video input can be via scart cable, S-Video, or Yellow phone. The red and white plugs are for left and right audio to accompany the yellow video lead or to be used with the S-Video lead to produce sound.

2. Press the Power Buttons.

- Turn the PDP and the DVD ON.

3. Input Select.

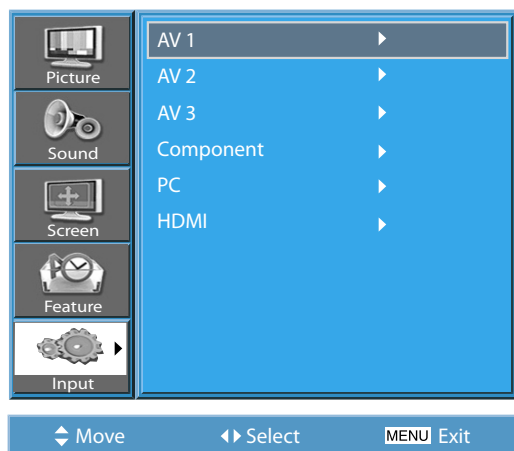
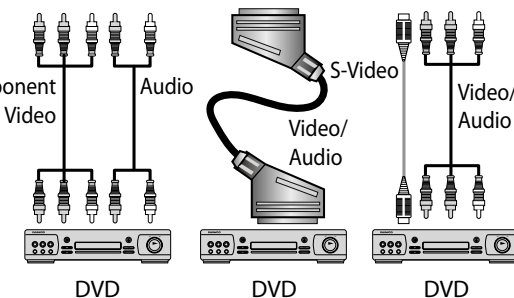
- Select [Component, AV1 (Scart), AV2 (Scart) or AV3 (S-Video)] by pressing the [AV] button of the remote control or the in keypad of the PDP unit.
- When you press the "AV" button, you will see the OSD as shown. You can move using "▲/▼" and select desire input mode with "◀/▶" button.

4. Select the Desired Title and Function.

- Select the desired title and function by using the remote control of the DVD.

Notes:

- 1) Y/Cb/Cr, which stands for component video DVD player's output can also be written as Y/B-Y/R-Y, Y/Pb/Pr depending on the kinds of DVD model.
- 2) The way of connecting the DVD to the PDP is as follows:
Y ↔ Y, Cb ↔ Pb, B-Y, Cr ↔ Pr, R-Y
- 3) The DVD output can be Video, S-Video or Component Video depending on the DVD model. There are various output modes, so be sure to check when you purchase it.
- 4) When connecting S-Video and Video simultaneously, only S-Video will be displayed on the screen as it takes precedence.



5.5 WATCHING A VCR IMAGE

- Video can use either the video terminal or the S-video terminal.

1. Connect a VCR to the PDP.

- Prepare the AV cable.
- Connect the Video (Output) to PDP (Video Input) as shown left.

2. Press the Power Buttons.

- Turn the PDP and the VCR ON.

3. Input Select.

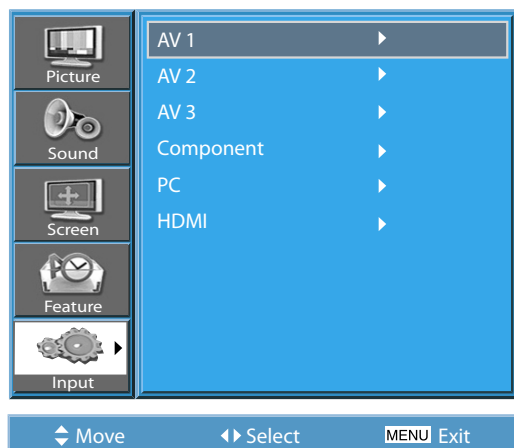
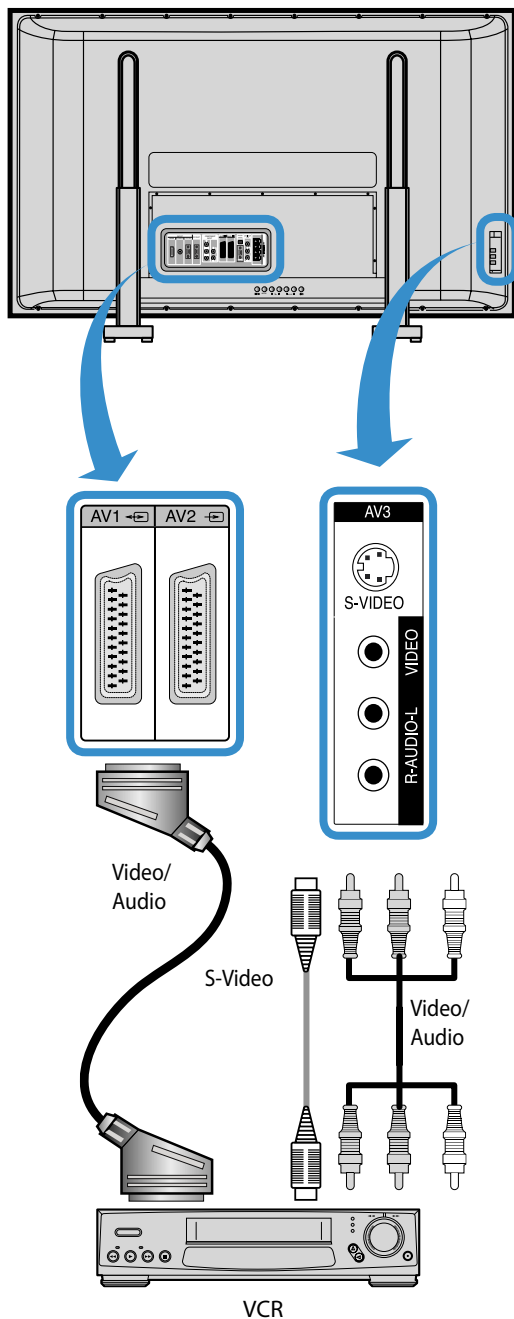
- Select [AV 1 (Scart), AV 2 (Scart) or AV 3 (S-Video)] by pressing the [AV] button of the remote control or the in keypad of the PDP unit.
- When you press the "AV" button, you will see the OSD as shown. You can move using "▲/▼" and select desire input mode with "◀/▶" button.

4. Select the Desired Title and Function.

- Select the desired title and function by using the remote control of the VCR.

Notes:

- 1) When connecting a VCR, the S-Video terminal provides a better image than the Video terminal.
- 2) When connecting to the Video terminal, connect 3 colour AV cables (video, left audio, right audio) to the PDP; for the S-Video terminal, connect the Audio terminal (Left, Right) in the same way, and connect the S-Video cable (sold separately).
- 3) When connecting the Video terminal and the S-Video simultaneously, the S-Video terminal is selected. This can be checked by the [Recall] button of the remote control.



5.6 WATCHING A CAMCORDER/GAME CONSOLE IMAGE

- Enjoy images recorded by camcorder or the game console after connecting to the PDP.

1. Connect a Camcorder/Game Console to the PDP.

- Prepare the AV cable.
- Connect the Video (Output) to the PDP (Video Input) as shown below.
- When connecting to an external AV source, be sure to match the colours.

2. Press the Power Buttons.

- Turn the PDP and the Camcorder/Game Console ON.

3. Input Select.

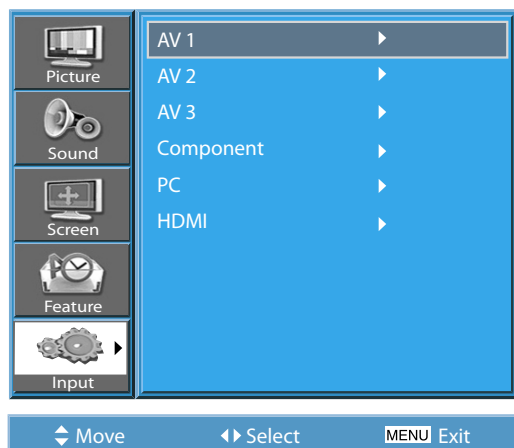
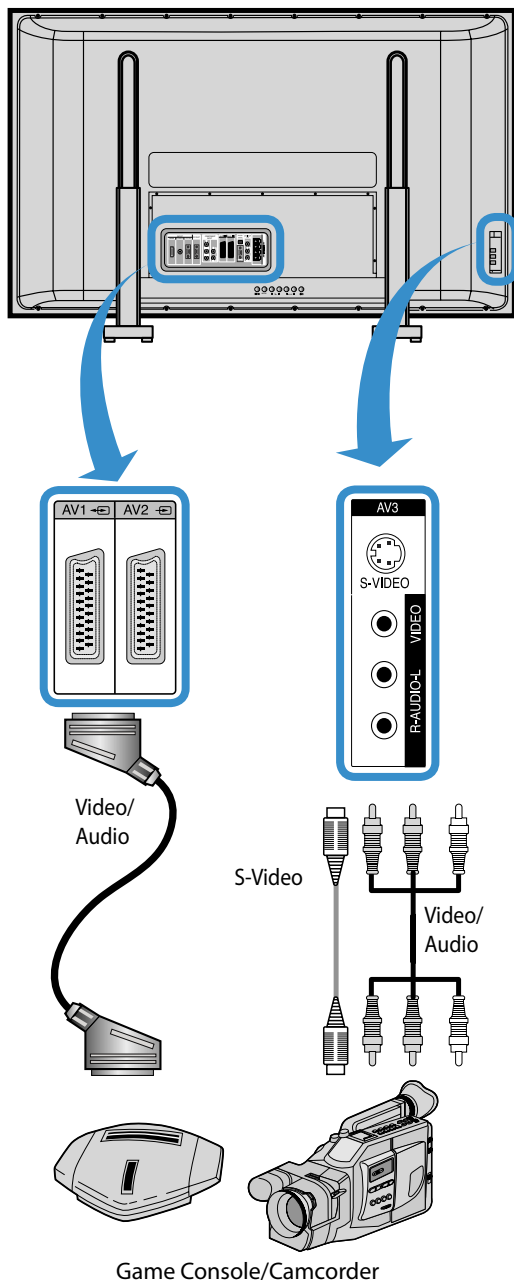
- Select [AV 1 (Scart), AV 2 (Scart) or AV 3] by pressing the [AV] button of the Remote Control or the in keypad of the PDP unit.
- When you press the "AV" button, you will see the OSD as shown. You can move using "▲/▼" and select desire input mode with "◀/▶" button.

4. Select Function.

- Select the function by using the remote control of camcorder or game console.

Notes:

- 1) When connecting the device, the S-Video terminal provides a better image than the Video terminal.
- 2) When connecting to the Video terminal, connect 3 colour AV cables (video, left audio, right audio) to the PDP; for the S-Video terminal, connect the Audio terminal (Left, Right) in the same way, and connect the S-Video cable (sold separately).
- 3) If connecting via component video, refer to "Watching a DVD Image".



5.7 CONNECTING PC (15 PIN D-SUB)

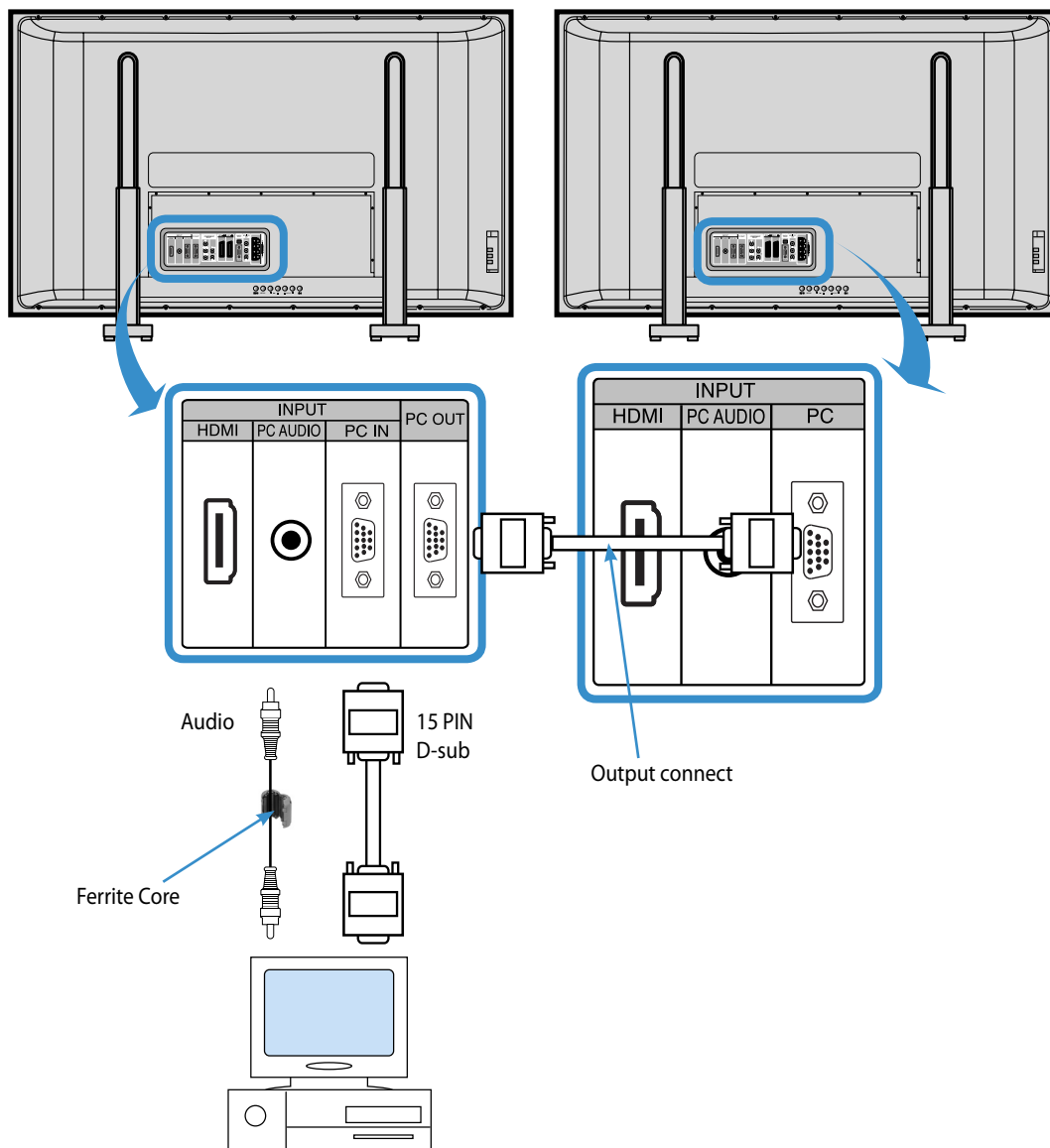
- This product supports resolutions of VGA, SVGA, XGA, WXGA, SXGA.
- Before connecting a PC to the PDP, be sure to adjust the resolution of the PC.

1. Before Connecting to the PDP, Set the Resolution of the PC.

- Go to SETUP-CONTROL PANEL-DISPLAY PROPERTIES in Window Screen of the PC.
- Choose the SETTINGS tab in the DISPLAY menu.
- In the SETTINGS menu, select 640 x 480, 800 x 600, 1024 x 768 or 1280 x 1024

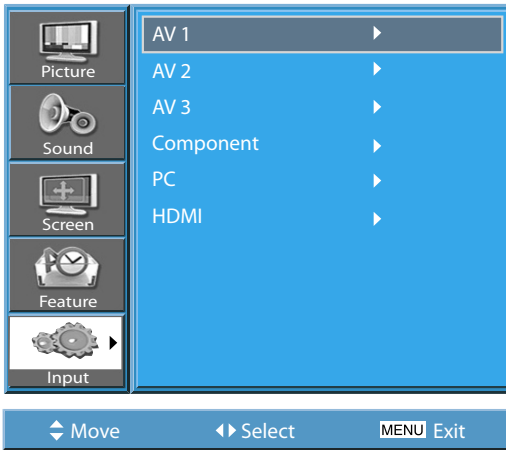
2. Connect the PC to the PDP.

- Prepare the PC cable (D-sub 15 pin) and the PC audio cable.
- Connect the PC (Output) to the PDP (Input) as shown below.
- If using the audio cable for connection, put the ferrite core to the middle of the cable for preventing EMI.



3. Press the Power Buttons.

- Turn on the PDP and the PC.



4. Input Select.

- Select [PC] by pressing the AV button of the remote control or PDP unit.
- When you press the “AV” button, you will see the OSD as shown. You can move using “▲/▼” and select desire input mode with “◀/▶” button.
- **N.B. :** You cannot select PC if the picture in picture mode is on.

5. Enjoy Dynamic Ultra Screen Monitor by Using PC’s Keyboard or Mouse.

Notes:

- 1) The resolution of the PC monitor is the best at 800 x 600 (SVGA) for SD panel and at 1024 x 768 (XGA) for HD panel.
- 2) If there is a [Vertical Frequency] setting menu in the [Display] menu of the PC, adjust the frequency to 60Hz.
- 3) If the PC resolution is too high, it may be hard to read letters. Select a suitable resolution.
- 4) If the picture don’t fit with the size or position of the screen, select the [Auto] function in the Screen Menu in order to make fit automatically. Also, you can adjust the position of the picture with [H.position] and [V.position] functions manually.
- 5) If the picture quality is not clear, select [Auto] function in the Screen OSD menu. It will find the best quality by itself. If you are still unsatisfied in the picture quality, please adjust [Phase] and [Frequency].

5.8 CONNECTING HDMI

- This product supports resolution of VGA, SVGA, XGA, SXGA.
- Before connecting a PC to the PDP, be sure to adjust the resolution of PC.
- This product is supported by Plug and Play only at HDMI.
- This Plasma unit is compliant with HDMI 1.1 version.

1. Connect the HDMI to the PDP.

- Prepare the HDMI cable.
- Connect the HDMI (Output) to the PDP (Input) as shown left.

2. Press the Power Buttons.

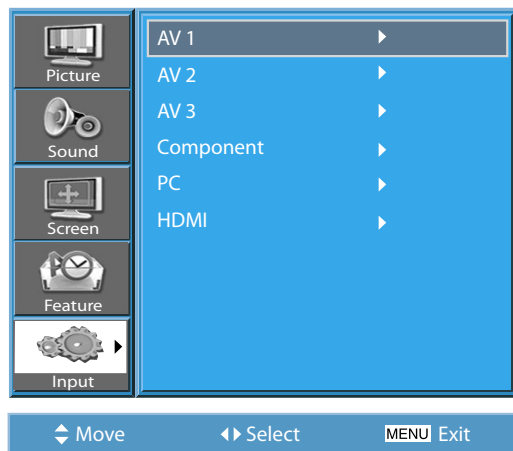
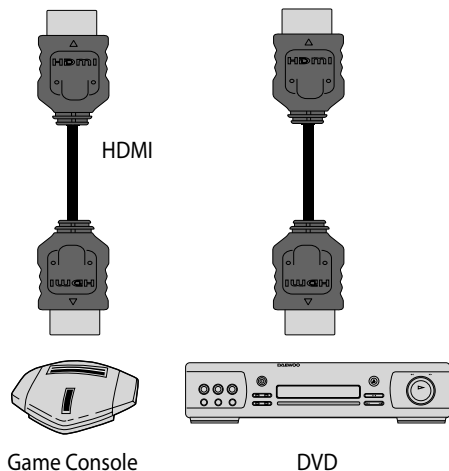
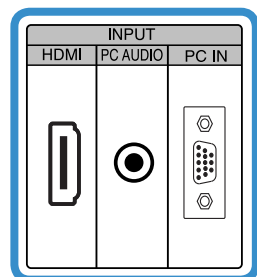
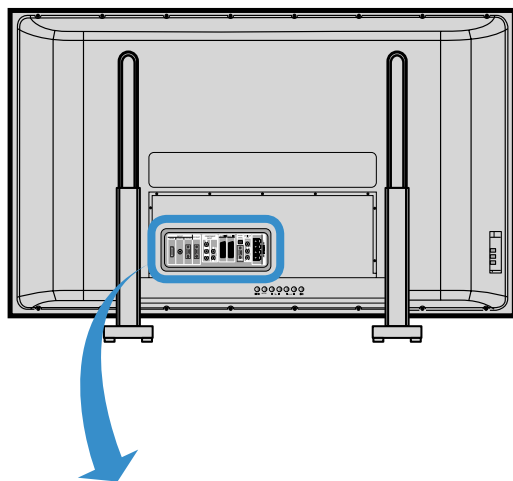
- Turn on the PDP and DVD or Game console.

3. Input Select.

- Select [HDMI] by pressing the AV button of the remote control or the button on the PDP unit.
- When you press the "AV" button, you will see the OSD as shown. You can move using "▲/▼" and select desire input mode with "◀/▶" button.

Notes:

HDMI input port receives only digital signal.



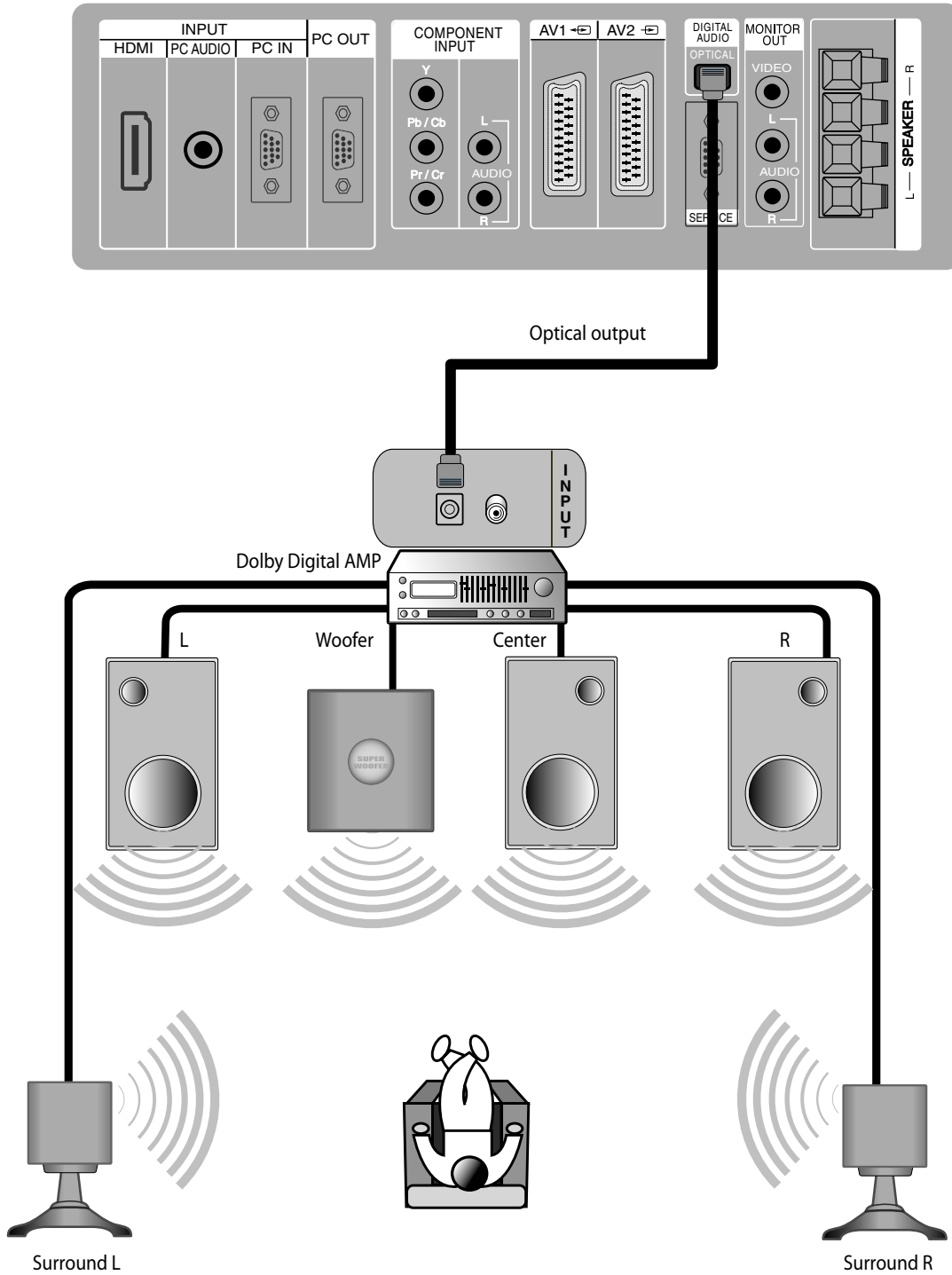
PC and HDMI Input Resolution Available in PDP

- Depending on graphic card, problems like no signal detected or line noises can happen. If these problems happen, contact the graphic card company for help.

Resolution	H Freq. (KHz)	V Freq. (Hz)	Remark	HDMI	PC
640 x 480	31.469	59.940	DOS	o	o
	37.861	72.809	VESA	o	o
	37.500	75.000	VESA	o	o
720 x 400	31.469	70.087	IBM	o	o
800 x 600	35.156	56.250	VESA	o	o
	37.879	60.317	VESA	o	o
1024 x 768	48.363	60.004	VESA	o	o
1280 x 1024	63.981	60.020	VESA	o	o

5.9 CONNECT WITH THE DOLBY DIGITAL AMP.

If you connect the optical output to a Dolby digital AMP, you can listen to better sound.



6. PICTURE

6.1 SELECTING PICTURE MODE

- Select the Picture mode that is appropriate depending on the kinds of pictures, you enjoy.

P.MODE



1. Selecting Picture Mode.

- Press the “P.MODE” on the remote control.
- While pressing the “P.MODE” for the first time, the current picture mode will be displayed.

2. Each Press of the Button Will Select One of Four Picture Modes.

- Each time you press the button, a different picture mode appears. The sequence used is as follows:

Normal → **Dynamic** → **Cinema** → **User**

- * **Normal:** For a highly defined image in a normally bright room
- * **Dynamic:** For a clear-cut image emphasizing high contrast for sports viewing.
- * **Cinema:** For a movie
- * **User:** Allows the user to customise settings as desired.

3. Menu on the Screen will disappear.

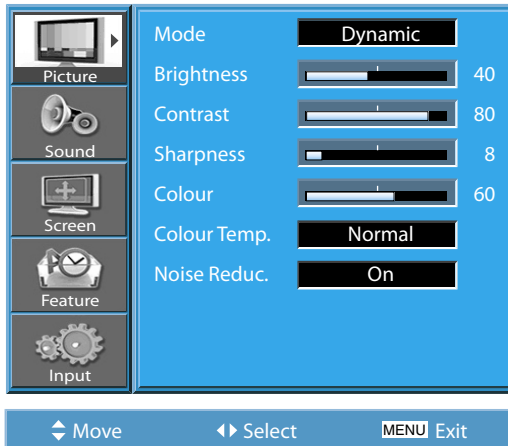
- After selecting a desired picture mode, the menu on the screen will be disappeared.
- If you want to customise the picture mode, refer to the following page.

Notes:

- 1) *Normal, Dynamic, and Cinema modes are factory preset values.*
- 2) *When adjusting sub-menus while you are in Normal, Dynamic, and Cinema modes, the Picture Mode will be automatically converted to User Mode, and the adjustments will be made.*
- 3) *Selecting [Mode Reset] in the [Feature], menu will allow the Brightness, Contrast, etc. to return to the factory preset values.*

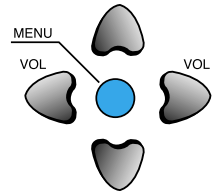
6.2 CUSTOMIZING PICTURE

- You can adjust the colour tone and brightness to your preference.



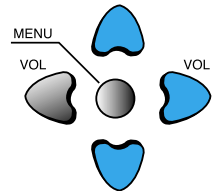
1. Press the MENU Button.

- The MENU shown below will display on the screen.



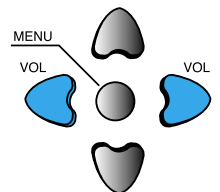
2. Press the ▲/▼ button.

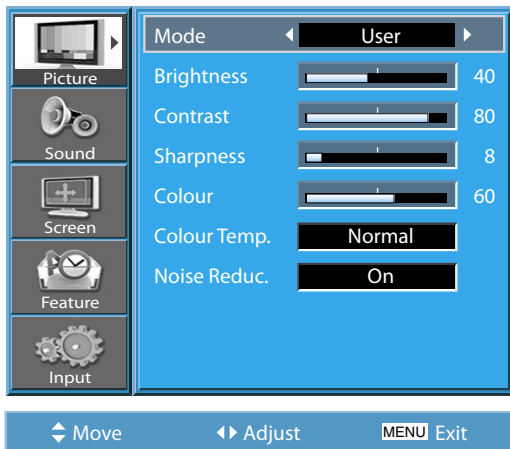
- After selecting [Picture] by the "▲/▼" buttons, press the "▶" button. Then the sub menu of [Picture] will be displayed.



3. Select the User Mode.

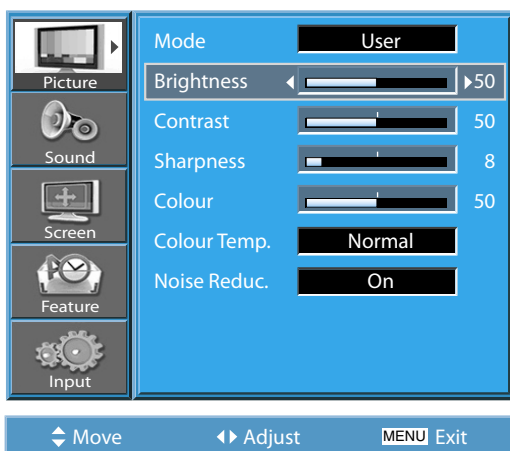
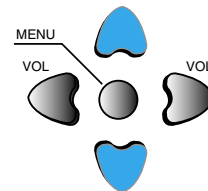
- Select [User] by the "◀/▶" buttons in the [Mode].





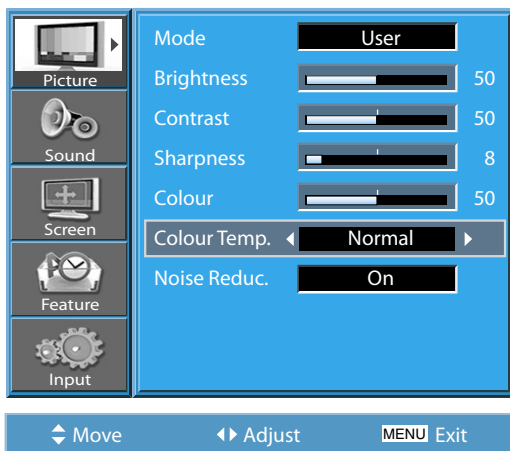
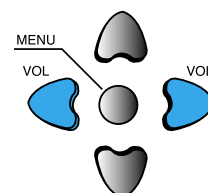
4. Select User Mode Adjustments.

- While you are in [Picture Mode – User], press the “▲/▼” buttons to select a specific adjustment item.



5. Picture Condition Adjustments.

- Press the “◀/▶” buttons to adjust the picture of your preference.
- Noise Reduc. functions the noise reduction.



6. Press the “COLOR TEMP” button on the remote control.

COLOR TEMP



- Pressing the “COLOR TEMP” button first time will display the current setting for COLOR TEMP.
- Each time you press the button, a different colour temp appears. The sequence used is as follows :

Normal → Warm → Cool

Notes:

- 1) While you are in the PC or HDMI input mode, you can only adjust brightness, contrast and colour temperature.
- 2) When you adjust Brightness, Contrast, and Colour in DTV mode or adjust Brightness and Contrast in PC and HDMI mode, the picture is adjusted finely.
- 3) The Tint control is used when the input signal is NTSC or Component. If input signal is NTSC, Tint control is displayed in picture menu.
- 4) Selecting the colour temperature makes the mood : normal, warm or cool.

6.3 ADJUSTING SCREEN

- You can adjust screen size or aspect ratio as desired.

6.3.1 Adjusting with PICTURE FMT button

1. Press the PICTURE FMT Button.

PICTURE FMT



- The current screen size will be displayed on the screen.
- Each time you press the PICTURE FMT button on the remote control, a different screen size appears. The sequence used is as follows in case of AV1, AV2 and AV3 modes :

Auto → 16:9 → 4:3 → LB(16:9) → LBS(16:9) → 14:9 → LB(14:9) → LBS(14:9) → Auto

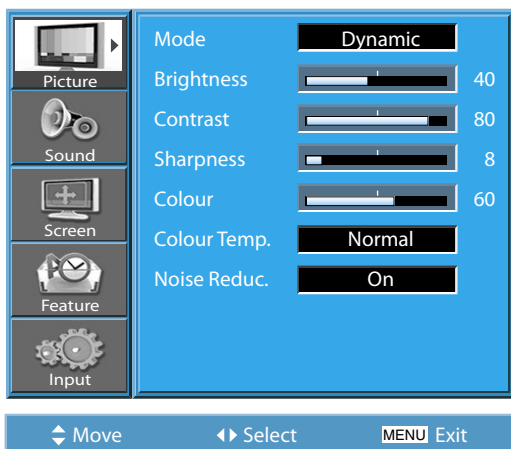
- **N.B. :** You cannot select screen size if the picture in picture mode is on.

Notes:

- 1) Displaying a picture in a 4:3 mode for a long time may cause phosphor of the PDP to be burned. So avoid displaying a picture in 4:3 screen size for a long time.
- 2) Under PC and HDMI inputs, only 16:9 and 4:3 are available.
- 3) **Auto** : Displays pictures of original picture size.
 - 16:9** : 16:9 picture formats;
 - 14:9** : 14:9 picture formats;
 - 4:3** : 4:3 picture formats like an analog TV;
 - LB** : Enlarges the screen as to fill the black part above and below the picture;
 - LBS** : Enlarges the screen, and shifts up as to see the subtitles in case you are watching video with subtitles.
- 4) If the picture shows unclear image in the 480P component input source, try to toggle the resolution from the DTV/DVD of the Screen Mode.

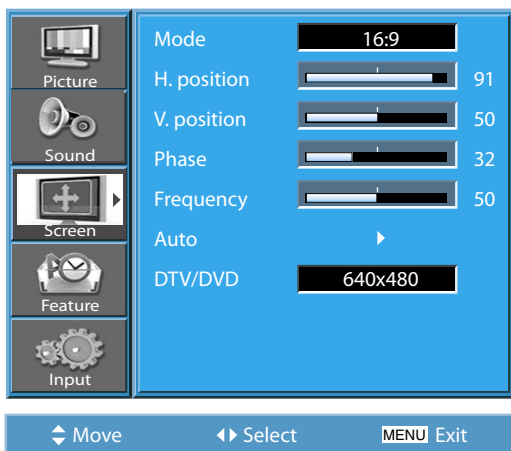
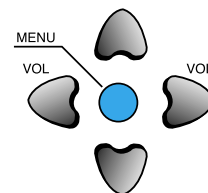
6.3.2 Adjusting Screen in the MENU

- You can adjust the screen in the menu.
- This function is same to the [PICTURE FMT] of remote controller.



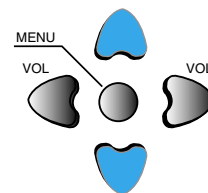
1. Press the MENU Button.

- The MENU screen as shown below will appear.



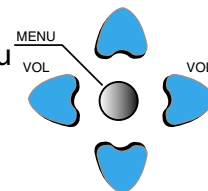
2. Press the "▲/▼" button.

- Press the "▲/▼" buttons to select "Screen".



3. Press the Volume "◀/▶" buttons.

- Press the Volume "◀/▶" buttons to enter the sub menu "Screen".
- While you are in "Screen" menu, press the "▼" or "▲" button to select a desired item, and then, adjust the value by pressing the "◀" or "▶".



< In case of PC input >

Notes:

1) Screen Mode is different according to the input modes.

Input	Available Screen Mode
AV	16:9, 4:3, LB(16:9), LBS(16:9) 14:9, LB(14:9), LBS(14:9), Auto
Component	16:9, 4:3, LB(16:9), LBS(16:9) 14:9, LB(14:9), LBS(14:9)
PC, HDMI	16:9, 4:3

2) Other Screen adjustments

< **Under PC mode** >

[H. Position] : As the value increases, the screen moves to the right.

[V. Position] : As the value increases, the screen moves up.

[Phase] : Adjust phase.

[Frequency] : Adjust frequency.

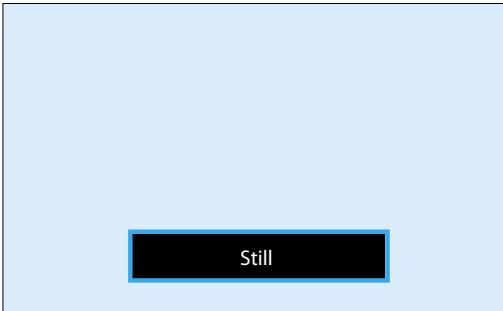
[Auto] : Adjusting automatically the screen to optimum states.

< **Under PIP mode** >

[Alpha Blend] : Adjusting the translucent rate of the subpicture.

6.4 WATCHING A STILL IMAGE

- You can view still images with this function. However, displaying the same images such as still images for a long time may cause image burn.



1. Press the “STILL” button.

- If you wish to freeze a picture, press the “STILL” button. You can still hear the sound.
- Press “STILL” button again to cancel the “STILL” function.

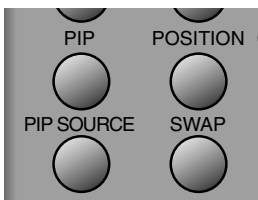


Notes:

- 1) *Displaying the same images such as still images for a long time may cause image burn (after-image lagging).*
- 2) *In this case, such “image burn” may become less noticeable if moving images are later displayed for a long time.*
- 3) *However, an image burn may become a permanent one, damaging the Plasma Display; therefore, avoid displaying the same images for a long time.*
- 4) *Use the function [Anti Burn-in], while displaying still images for a long period of time to minimize this effect. Anti Burn-in (on or off) is in the Feature menu.*

6.5 WATCHING TWO PICTURES SIMULTANEOUSLY

- PIP (Picture-in-Picture) and P-by-P (Picture-by-Picture) modes allow users to watch two pictures simultaneously.

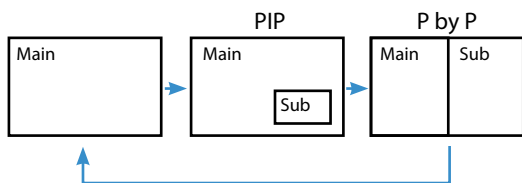


Screen Adjustment of the Sub-picture

- Alpha Blend of the sub-picture can be adjusted on Screen Menu of OSD.
- Alpha Blend is only available in PIP mode.

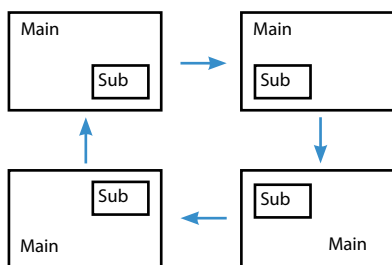
Alpha Blend - The adjustment of alpha blend allows the subpicture to be translucent. The translucent rate is controlled with “◀/▶” buttons.

1. Engaging PIP mode.



- Press the ‘PIP’ button once on the remote control to engage the Picture-in-Picture mode.
- By pressing the button repeatedly, it will show the following cycle.
- If switched to P-by-P (Picture-by-Picture) mode, the screen will be split in half. The screen on the left side is the main picture, and the sub-picture will be on the right of the screen.

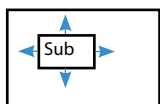
<Using ‘Position’ button>



2. Position of the Sub-picture.

- When PIP mode is engaged, the sub-picture can be displayed in one of the four corners by using ‘POSITION’ button.
- Whenever pressing the button, the sub-picture will be cycling in the following order.
- If you would like to move the sub-picture to specific position you desire, use navigation keys.

<Using “▲/▼” and “◀/▶” button>



3. Swap the pictures.

- In order to swap between the main picture and sub-picture, press the ‘SWAP’ button.

PIP SOURCE



4. Select the Input Source.

- Various signal sources can be displayed within the sub-picture under PIP mode.
- Once the PIP mode is on, you may change the input source of the sub-picture by pressing the "SOURCE" button.
- Pressing the "SOURCE" button repeatedly will cycle through following order:

AV1 → AV2 → AV3

5. Available PIP Input Combinations.

- Main-picture and sub-picture input combinations are listed below for reference.

Main PIP	AV1 (CVBS)	AV2 (CVBS)	AV3 (CVBS/S)	AV1 (RGB)	COMP	PC	HDMI
AV1 (CVBS)	X	X	X	X	X	X	△
AV2 (CVBS)	X	X	X	X	X	X	△
AV3 (CVBS/S)	X	X	X	X	X	X	△
AV1 (RGB)	X	X	X	X	X	X	△
COMP	X	X	X	X	X	X	X
PC	X	X	X	X	X	X	X
HDMI	△	△	△	△	X	X	X

7. SOUND

7.1 SELECTING SOUND MODE

- Enjoy various sound modes by selecting your favourite Sound Mode depending on the kinds of moving pictures.

S.MODE



1. Select "SOUND MODE".

- Press the "S.MODE" on the remote control.
- While pressing the "S.MODE" for the first time, the current sound mode will be displayed.

2. Every Press of the Button Changes Modes.

- Each time you press the button, a different sound mode appears. The sequence used is as follows:

Normal → **Movie** → **Music** → **News** → **User**

Normal : Suitable for watching any motion picture

Movie : Select this mode to simulate being at a movie theatre

Music : Ideal for listening to music

News : Allows human voice to be heard more clearly

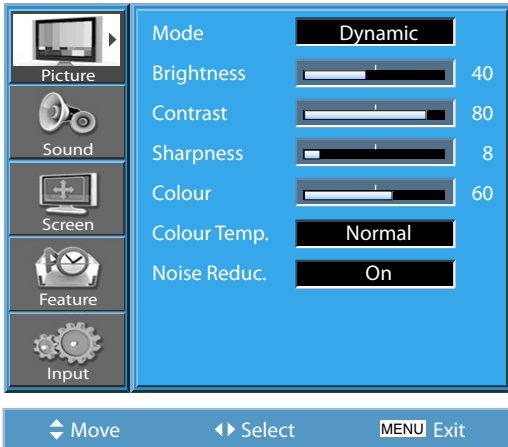
User : Allows the user to adjust as desired.

3. MENU will Disappear.

- After selecting a desired Sound Mode, the on-screen menu will disappear in about 2~3 seconds.
- Normal, Movie, Music and News modes are factory preset values. If you want to customise the sound modes for your preference, refer to the following page.

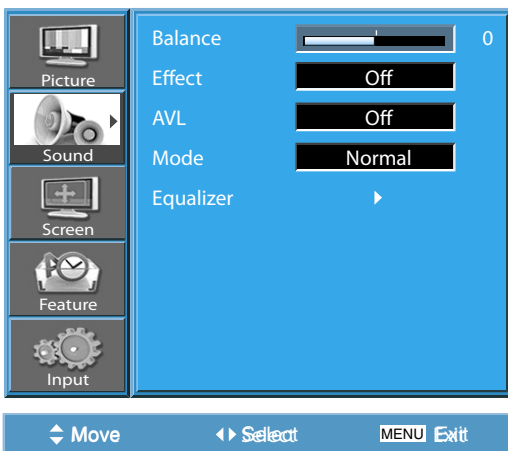
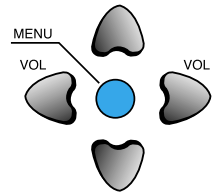
7.2 CUSTOMIZING SOUND MODE

• This feature allows the user to adjust for their preference.



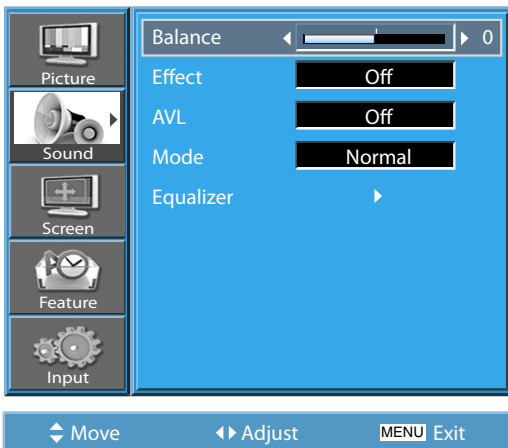
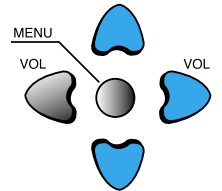
1. Press the MENU Button.

• The MENU screen as below will be displayed.



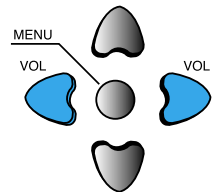
2. Press the "▲/▼" Button.

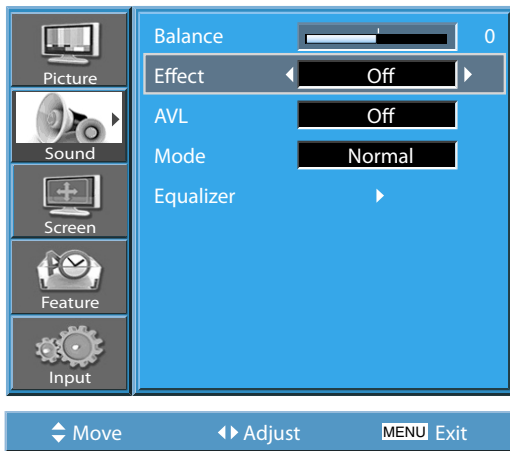
• Select [Sound] by the "▲/▼" buttons, then press the "▶" button to display the following.



3. Select SOUND BALANCE.

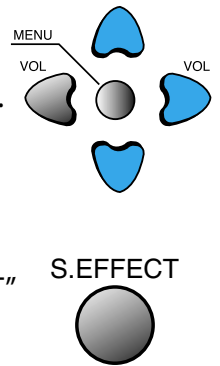
• Select "Sound-Balance" by the "◀/▶" buttons, then adjust it.



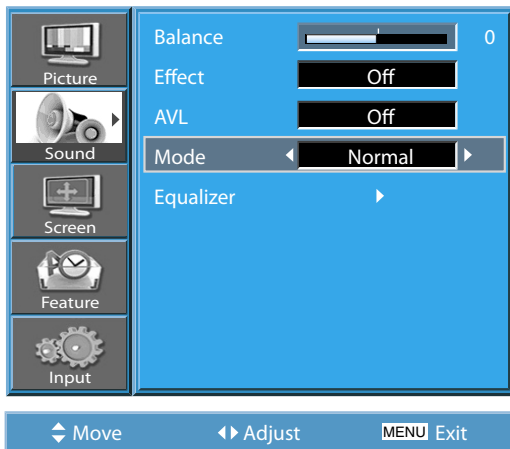


4. Select the Effect Mode.

- Select [Effect] by pressing the “▲/▼” buttons, then select the desire sound effect by pressing the “▶” button.
- [Effect]: Used to emphasize stereo effect.
- BBE is the sound enhancement clarifying the sound and outputs finest quality. And M.Voice is the function that you can hear clearer voice.
- Effect Mode also can be selected by pressing “S.EFFECT” button on the remote controller.

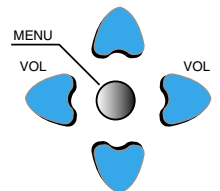


Off → BBE → M.Voice



5. Select the Sound Mode.

- Select the Sound Mode by pressing the “▲/▼” buttons, then adjust it by pressing the “◀/▶” buttons.



Normal → Movie → Music → News → User

Normal : Suitable for watching any motion picture

Movie : Select this mode to simulate being at a movie theater

Music : Suitable for listening to music

News : Allows human voice to be heard more clearly

User : Allows the user to adjust as desired.

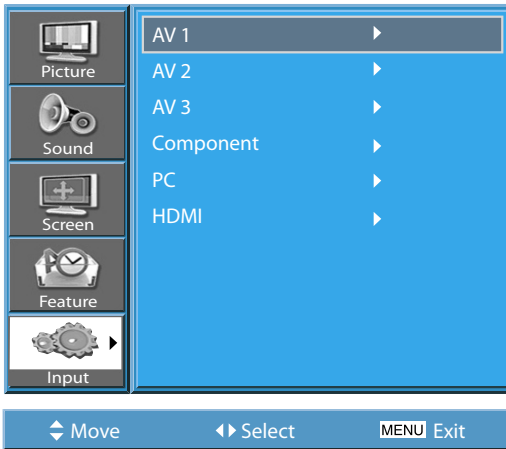
Notes:

- 1) User Mode : Used as an equalizer with which the user can adjust the sound frequency as desired.
- 2) If you modify the sound frequency in auto Sound Mode (News, Movie, Music, etc.), it is automatically switched to the User Mode.
- 3) For a realistic sound effect, lower than 120Hz frequency sound and greater than 12kHz frequency adjust the equalizer accordingly.
- 4) AVL function : This function adjusts volume to the set level automatically. However, dependent on the sources, it may have different volume levels because the sound sources have their own initially set up levels.

8. INPUT SIGNAL

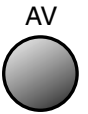
8.1 SELECTING INPUT SIGNAL

- Used to select INPUT signal of external device connected to the PDP.



1. Press the Input Signal Selecting Button.

- Press the "AV" button on the remote control, or select the desire input signal using Keypad of the PDP unit.
- When you press the "AV" button, you will see the OSD as shown. You can move using "▲/▼" and select desire input mode with "◀/▶" button.

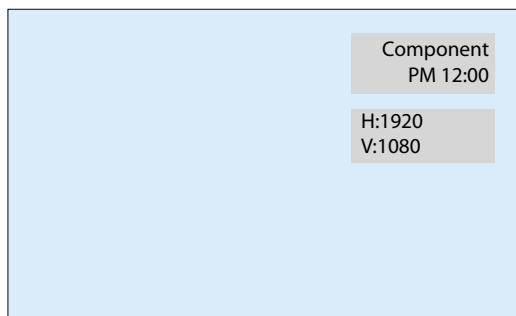


Notes:

- 1) If an external device is not connected or INPUT signal is not applied a Warning Message ("No Signal") will be displayed.
- 2) In this case, check if external device is connected and / or terminal connection is properly fitted.
- 3) Also, you can select input using [INPUT SELECT] button in the keypad of the PDP unit

8.2 CHECKING THE CURRENT INPUT SIGNAL

- Press the [RECALL] button on the remote control, then displays basic informations of the current input signal, Under this state, pressing the [RECALL] button once more, additional informations about the current input signal will be displayed on the OSD.
- Used to check the INPUT signal mode, current time, resolution, etc.



1. Press the “RECALL” Button.

- Press the “RECALL” button on the Remote Control.



1. If you watch Component, PC, or HDMI:

- | | | |
|-----------|---|--|
| Component | → | Displays which input terminal is used, and indicates the input signal mode. |
| PM 12:00 | → | Indicates the mode and current time. |
| H:1920 | → | Indicates the horizontal and vertical resolution of the current input signal |
| V:1080 | | |

2. If you watch VCR image:

- | | | |
|---------------|---|--|
| AV1 | → | Displays the program number and input terminal, which is used. |
| PM 12:00 | → | Indicates the mode and current time. |
| Video PAL B/G | → | Displays the video system of input signal |

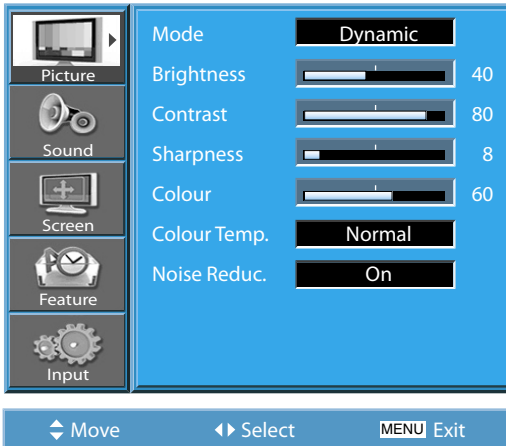
Notes:

- 1) “1920 x 1080” displayed in the INPUT signal is not the resolution of the set, but the signal that is sent by the Digital Broadcasting Receiver.

9. OTHER FUNCTIONS

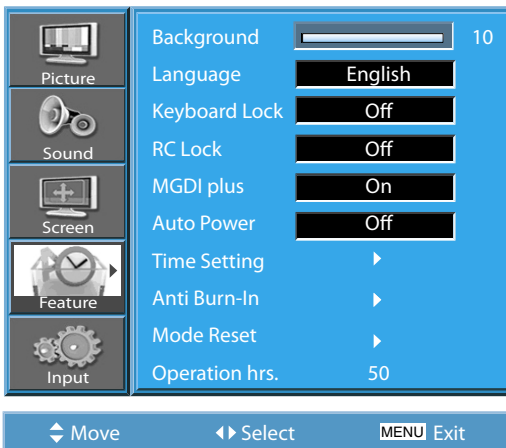
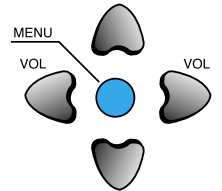
9.1 MENU BACKGROUND, LANGUAGE, KEYBOARD LOCK SETTING AND RC LOCK SETTING

- Used to select the translucent level of MENU background and language used in MENU.



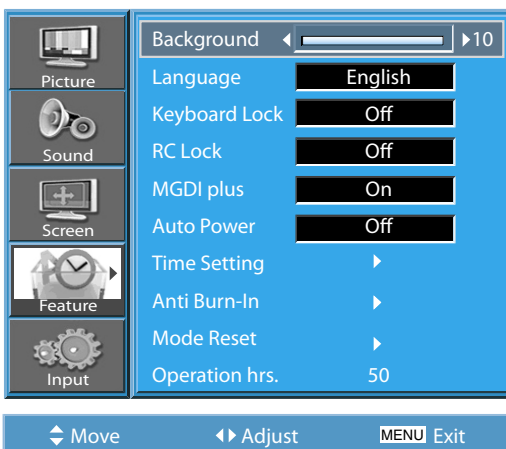
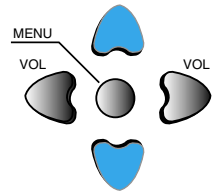
1. Press the MENU Button.

- The MENU screen will be displayed as below.



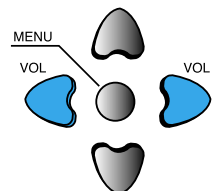
2. Press the "▲/▼" button.

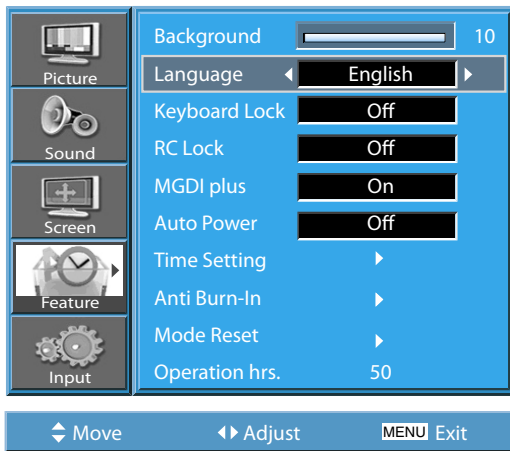
- Select [Feature] by the "▲/▼" button.



3. Select the menu Background.

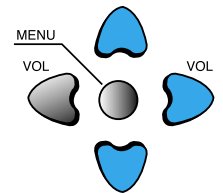
- Select the MENU [Background] by pressing the "▶" button.
- Adjust the translucent level of OSD background using "◀/▶" buttons.





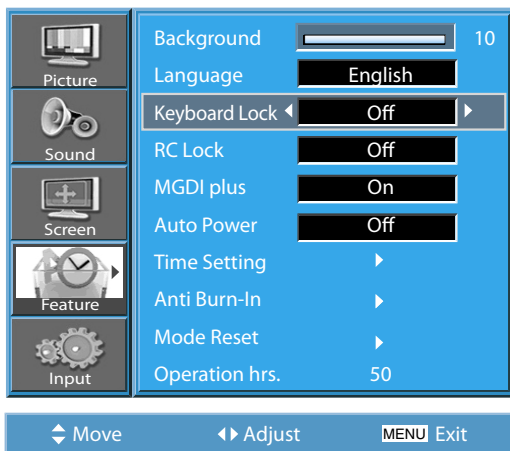
4. Select LANGUAGE by using the “▲/▼” button.

- Select [Language] by using the “▲/▼” button.
- Every press of the “▶” button while you are in the [Language] mode would cycle through the different languages.



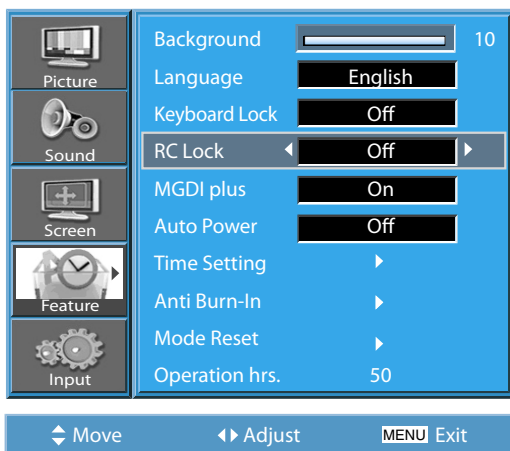
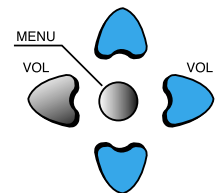
Notes:

* When power is turned on the first time, 'SELECT LANGUAGE' mode will be displayed, then, select the desired language by using “▶” button. (Displayed only once)



5. Keyboard Lock Setting.

- Select [Keyboard Lock] by the “▲/▼” buttons.
- Whenever “▶” button is pressed, the lock mode would cycle On and Off.
- While the Keyboard Lock is ON, if you have not turned off the PDP, all of it's keys will work normally. However, after turning the PDP off, the PDP will not be turned on with the keypad on the PDP. Only by the remote controller, the PDP is turned on.
- At Stand-By state while the Keyboard Lock is ON, the LED of the Plasma unit will be flickering in red.

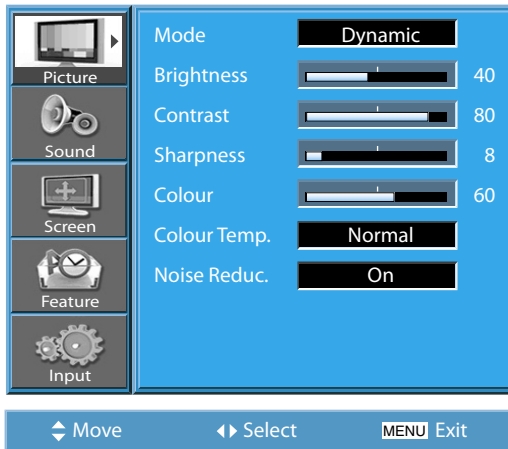


6. RC Lock Setting.

- Select RC Lock by the “▲/▼” buttons.
- In order to turn the RC Lock on, press “▶” button of remote controller or keyboard.
- When RC Lock is On, you cannot make it Off using remote controller. Please use the keyboard instead of remote controller to unlock.
- In case of that both Keyboard Lock and RC Lock are On, you can unlock those only using RS-232 control. Please reference 'SICP User Manual' for the usage of RS-232 control.

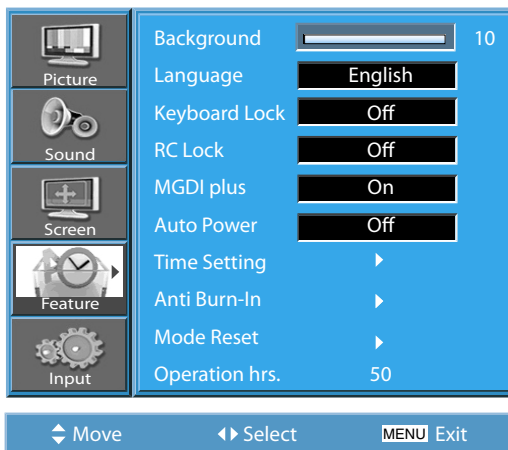
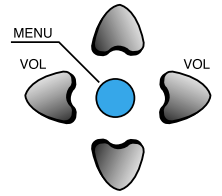
9.2 MGD PLUS (META GENUINE DIGITAL IMAGE)

- MGD Plus is the image enhancement technology of which provides more clear, realistic, and delicate images.
- MGD Plus function can not be used In PC and HDMI modes.



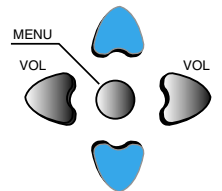
1. Press the MENU Button.

- The MENU screen will be displayed as below.



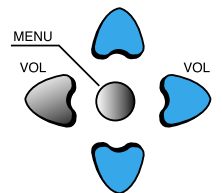
2. Select Feature.

- Select [Feature] by the "▲/▼" button.



3. MGD Plus Setting.

- Enter the sub Menu by using the "▶" button.
- Select the [MGDI Plus] by pressing the "▲/▼" button.
- You can select [MGDI Plus] On or Off mode by using the "▶" button.

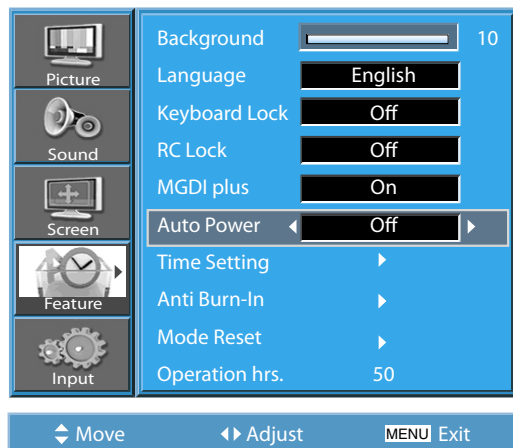


9.3 AUTO POWER SETTING

POWER/STANDBY Indicator

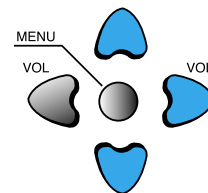
Front panel LED lights

- When the AC power is on : Green.
- When the AC power is in the stand-by mode : Red.



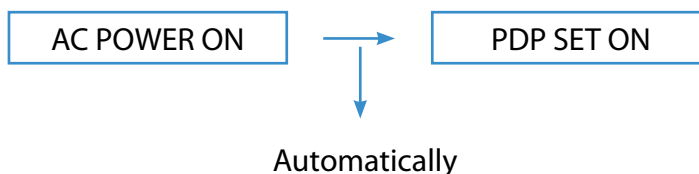
1. Auto Power Setting.

- Select the [Auto Power] by pressing the “▲/▼” button from [Feature].
- You can select [Auto Power] ON and OFF mode by using the “▶” button.

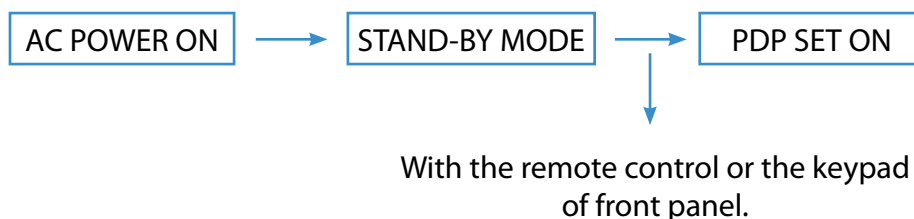


Auto Power

1) ON : When the AC power is ON, the Monitor will be turned on automatically without pressing the power button on the remote control.



2) OFF : When the AC power is ON, the Monitor will be turned on by pressing the power button on the remote control or the keypad of the front panel.

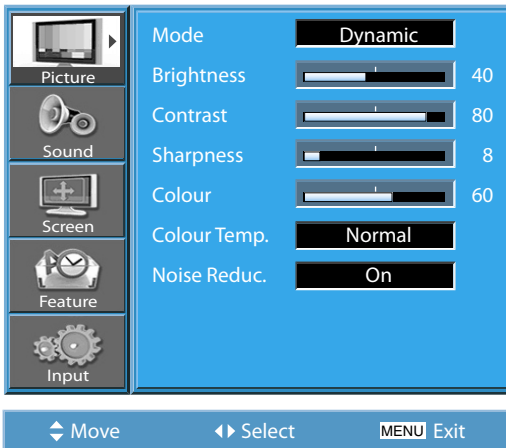
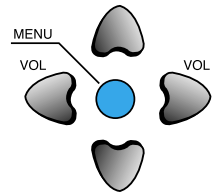


3) If Keyboard Lock function is ON, this function is not operated.

9.4 TIME SETTING

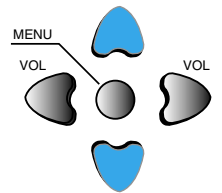
1. Press the MENU Button.

- The MENU screen will be displayed as below.



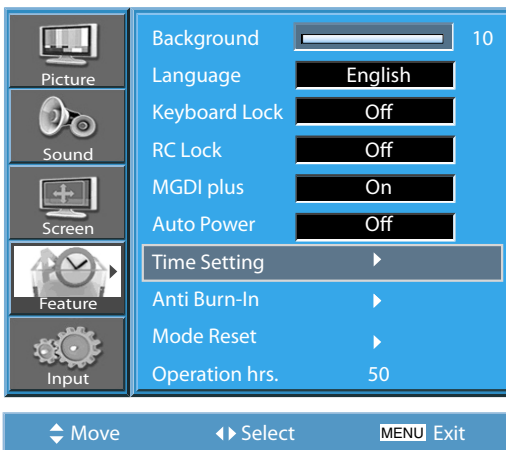
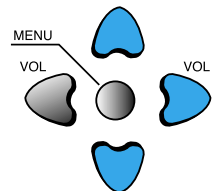
2. Select Feature.

- Select [Feature] by the "▲/▼" button.

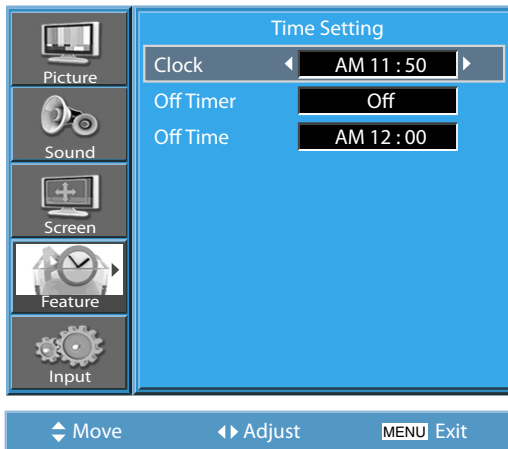


3. Select Time Setting.

- Enter the sub menu by using the "▶" button.
- Select the [Time Setting] with the "▲/▼" button.
- Enter [Time Setting] by pressing the "▶" button.

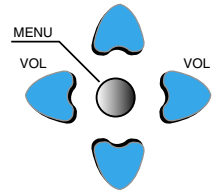


- The "Current time" must be set up ahead of setting up other time memories.



4. Off-Time setting.

- Select Functions by pressing the "▲/▼" button. First, set [Clock]- current time, and then You can setup off-time.
- [Clock] : Adjust the desired hour and minute with "◀/▶" button.
- [Off Time] Setting methods are same as [Clock] setting method.
- [Off Timer] : Setting [On] and [Off] of each Timer.

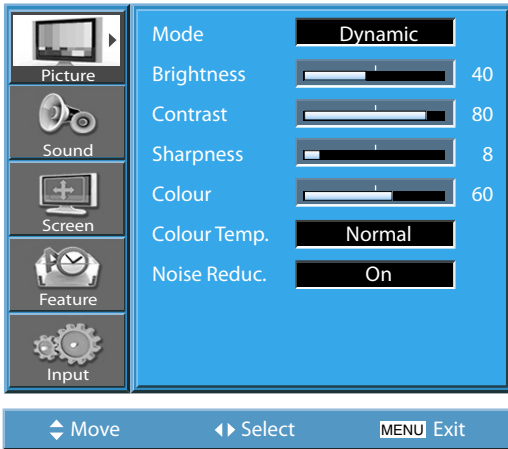


Time Setting Functions

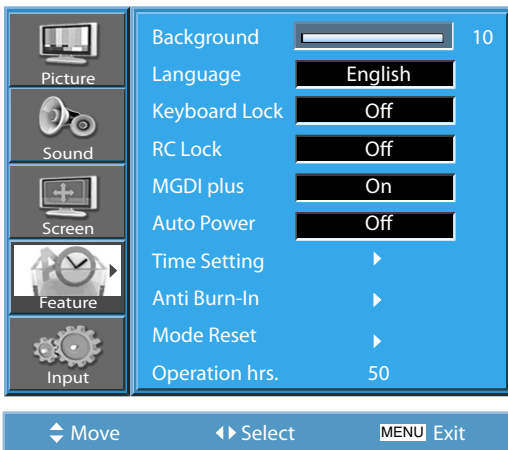
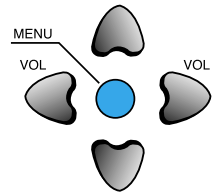
This time memory function automatically turns the Monitor set "Off" at a desired time. Once set up, this function works every day unless the set time is counselled or the Monitor set is unplugged.

9.5 ANTI BURN-IN

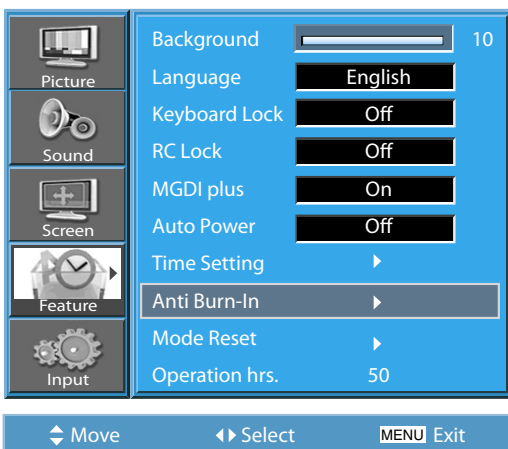
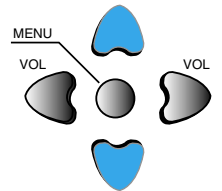
- Displaying a still image for a long time causes part image sticking on the screen.
- The Anti Burn-In function minimises this effect.



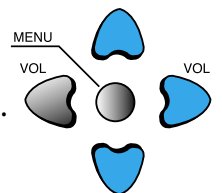
- 1. Press the MENU Button.**
 - The MENU screen will be displayed as below.

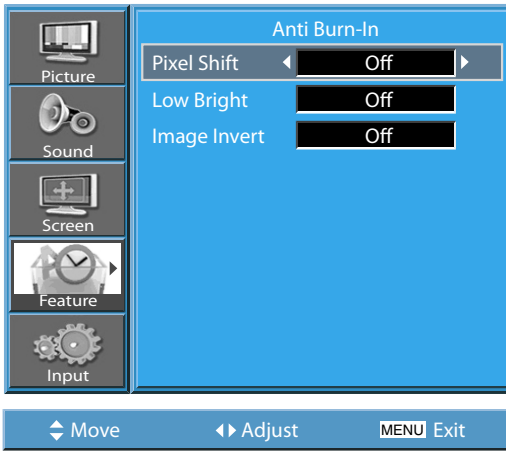


- 2. Press the "▲/▼" button.**
 - Select [Feature] by the "▲/▼" button.



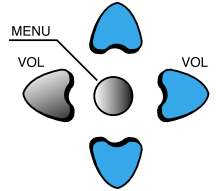
- 3. Select Anti Burn-In.**
 - Enter the sub menu by using the "▶" button.
 - Select the [Anti Burn-In] by pressing the "▲/▼" button.
 - Press of the "▶" button while you are in the Anti Burn-In.





4. Select Functions.

- Every press of the “▶” button after select function by the “▲/▼” button would switch between ON/OFF.

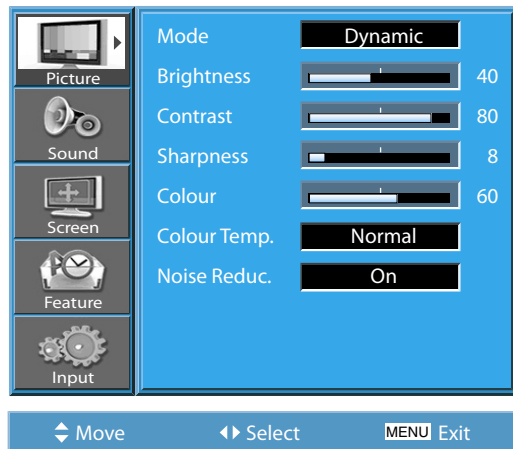


PIXEL SHIFT



Notes:

- * **Pixel Shift** : The whole screen shifts up/down, left/right at 25 sec interval to minimize image sticking.
- * **Low Bright** : When displaying a still picture or a fixed pattern for a long time (5Min), the brightness level decreases to minimize image sticking, and the initial default value of Low Bright is ,On' state.
- * **Image Invert** : Inverting colour of the original image to minimisation image sticking.

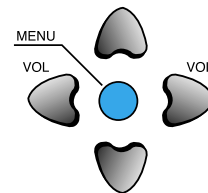


9.6 MODE RESET

- You can restore the values of the adjustment setting made in the MENU back to factory settings.

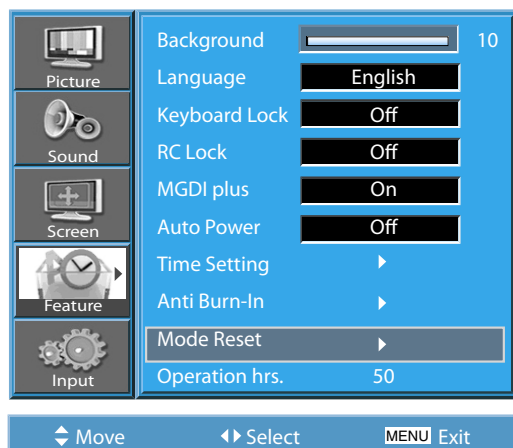
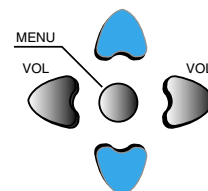
1. Press the MENU Button.

- The MENU screen will be displayed as below.



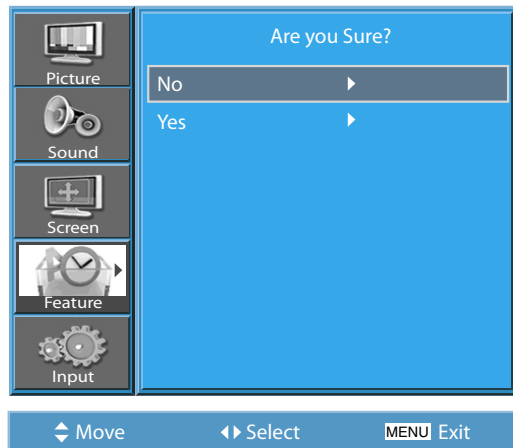
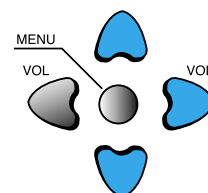
2. Select Feature.

- Select [Feature] by the "▲/▼" button.



3. Mode Reset.

- Enter the sub Menu by using the "▶" button.
- Select the [Mode Reset] by pressing the "▲/▼" button, then press the "▶" button.
- A confirmation message will be displayed.
- To perform Mode Reset, press the "▶" button after selecting [Yes] by the "▲/▼" button.
- To return to MENU, press „MENU" button.

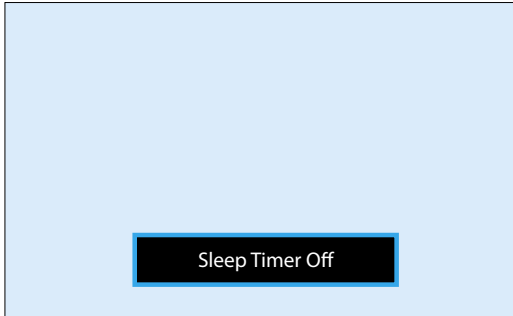


When [Mode Reset] is completed:

- When [Mode Reset] is completed, those values that have been set in the User Mode of [Picture Mode] and [Sound Mode] will be returned to the factory preset values.
- Once reset, you can not undo.
- The items in the [Screen] Menu are also reset.
- Language, Program, Time, Volume, OSD Background, input mode, Keyboard Lock, RC Lock and Operation Hour are not reset.

9.7 SETTING SLEEP TIMER

- Sleep Timer turns the PDP off after a preset time.



1. Press the "TIMER" Button.

- Press the "TIMER" button on the Remote Control.
- Pressing the "TIMER" button first time will display the current setting for Sleep Timer.
- To cancel the Sleep Timer, press the "TIMER" button to select 'Off'.

TIMER



Sleep Timer off → Sleep Timer 15 → Sleep Timer 30 → Sleep Timer 60 → Sleep Timer 90 → Sleep Timer 120 → Sleep Timer off

Notes:

- 1) On-screen information disappears if you do not take any action for about two seconds after pressing the TIMER button.
- 2) If you turn the PDP off after setting TIMER, the setting is erased.

10. SPECIFICATIONS

DISPLAY UNIT

Diagonal Size	127cm(50")
Screen Aspect Ratio	16 : 9
System	PAL B/G, D/K, I/I, SECAM B/G, D/K, L/L'
Display Resolution	HD Panel: 1365(H) X 768(V) dots
Pixel Pitch	HD Panel: 0.81(H) X 0.81(V) mm
Dimension	1240(W) X 753(H) X 100.5(D) mm (without Stand)
	1240(W) X 817(H) X 370(D) mm (with Stand)
Weight (without stand)	43.2Kg
Power Requirement	100 - 240V~, 50/60Hz

* Appearance and specifications of this product are subject to change for improving the product without prior notice.

CONNECTION TERMINAL

	ITEMS	VIDEO	AUDIO	
EXTER- NAL INPUT	HDMI INPUT	HDMI Jack		
	PC	INPUT	One 15 pin D-sub jack	PHONE Jack
		OUTPUT	One 15 pin D-sub jack	
	RCA OUTPUT	RCA jack	(LEFT/RIGHT)	
	Component INPUT	One Y Pb/Cb, Pr/Cr RCA jack	(LEFT/RIGHT)	
	AV 1, 2	SCART jack (Video In/Out, RGB In-AV1, Video In-AV2)	(LEFT/RIGHT) (In/Out)	
	AV 3	RCA jack	(LEFT/RIGHT)	

AUDIO FEATURES

AUDIO OUTPUT	20W (10W + 10W), 8 Ohm
---------------------	------------------------