Ver. 1.0 E

OLS-PGB/P Series
User's Guide

CONTENTS

Safety Instructions

➤ Do not use a damaged or loose plug.
 • This may cause electric shock or fire.

➤ Do not pull the plug out by the wire nor touch the plug with wet hands.
 • This may cause electric shock or fire.

➤ Use only a properly grounded plug and receptacle.
 • An improper ground may cause electric shock or equipment damage.

➤ Insert the power plug firmly so that it does not come loose.
 • A bad connection may cause fire.

➤ Do not excessively bend the plug and wire nor place heavy objects upon them, which could cause damage.
 • This may cause electric shock or fire.
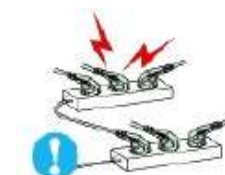
➤ Do not connect too many extension cords or plugs to one outlet.
 • This may cause fire.

➢ Do not disconnect the power cord while using the LCD Display.
 • A surge may be caused by the separation and may damage the LCD Display.

➢ Do not use the power cord when the connector or plug is dusty.
  • If the connector or plug of the power cord is dusty, clean it with a dry cloth.
  • Using the power cord with a dusty plug or connector may cause electric shock or fire.

➢ Do not drop the LCD Display when moving it.
  •This may cause damage to the product or the person carrying it.

➢ Keep any flammable objects such as candles, insecticides or cigarettes away from the product.
  • Otherwise, this may cause fire.
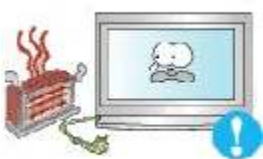
➢ Keep any heating devices away from the power cable.
 • A melted coating may cause electric shock or fire.

➢ Put down the LCD Display carefully.
 • Failing to do so may damage the LCD Display.

➢ Do not place the LCD Display face down.
  • This may damage the TFT-LCD surface.

➢ The installation of the bracket must be done by a qualified professional.
  • Installing the bracket by unqualified personnel may result in injury.
  • Always use the mounting device specified in the owner's manual.
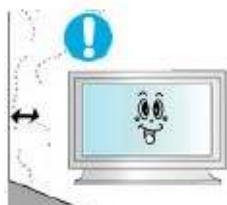
➢ When installing the product, make sure to keep it away from the wall (more than 10 cm / 4 inches) for ventilation purposes.
  • Poor ventilation may cause an increase in the internal temperature of the product, resulting in a shortened component life and degraded performance.
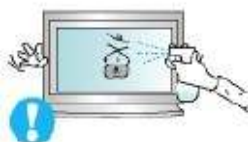
➢ Do not spray water or detergent directly onto the LCD Display.
  • This may cause damage, electric shock or fire.

➢ Keep the product away from places exposed to oil, smoke or moisture; do not install inside a vehicle.
  • This may cause a malfunction, electric shock or fire.
  • In particular, avoid operating the LCD Display near water or outdoors Where the LCD Display could be exposed to snow or rain.

➢ Disconnect the plug from the outlet during storms or lightning or if it is not used for a long period of time.
  • Failure to do so may cause electric shock or fire.

➢ Do not install the product on an unstable, uneven surtace or a location prone to vibrations.
   • Dropping the product may cause damage to the product or the person carrying it.
   Using the product in a location prone to vibrations mayshorten the lifetime of the product or may cause the product to catch fire.

➢ When removing batteries from the remote control, be careful that they are not swallowed by children. keep the batteries out of children's reach.
   • If the batteries are swallowed, see a doctor immediately.
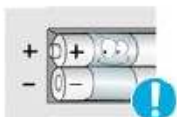
➢ When replacing batteries, place the batteries in the correct +/- polarity position as indicated on the battery holder.
   • The incorrect polarity may cause a battery to break or leak and Cause fire, injury, or contamination (damage).

➢ Use only specified standard batteries. Do not use new and used batteries together.
   `   • This may cause a battery to break or leak and may cause fire, injury, or contamination (damage).
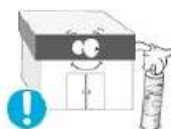
➢ The batteries (and rechargeable batteries) is not ordinary refuse and must be returned for recycling purposes.
   The customer is responsible for returning the used or rechargeable batteries for recycling purposes as the consumer.
   • The customer can return used or rechargeable batteries to a nearby Public recycling center or to a store selling the same type of the battery or rechargeable battery.

Important Safety Instructions

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, 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 are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with the 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. Do not expose this apparatus to dripping or splashing and ensure that no objects filled with liquids, such as vases, are placed on the apparatus.
16. To completely disconnect this apparatus from the AC Mains, disconnect the power supply cord plug from the AC receptacle.
17. The mains plug of the power supply cord shall remain readily operable.
18. An apparatus with CLASS I construction shall be connected to a Mains socket outlet with a protective earthing connection.

Note: Prolonged use of headphones at a high volume may cause health damage on your ears.

The lightning flash with arrowhead symbol within an equilateral triangle, 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.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

Introduction

LCD Display

Manual

User Manual CD

Cable

AC Power Cable

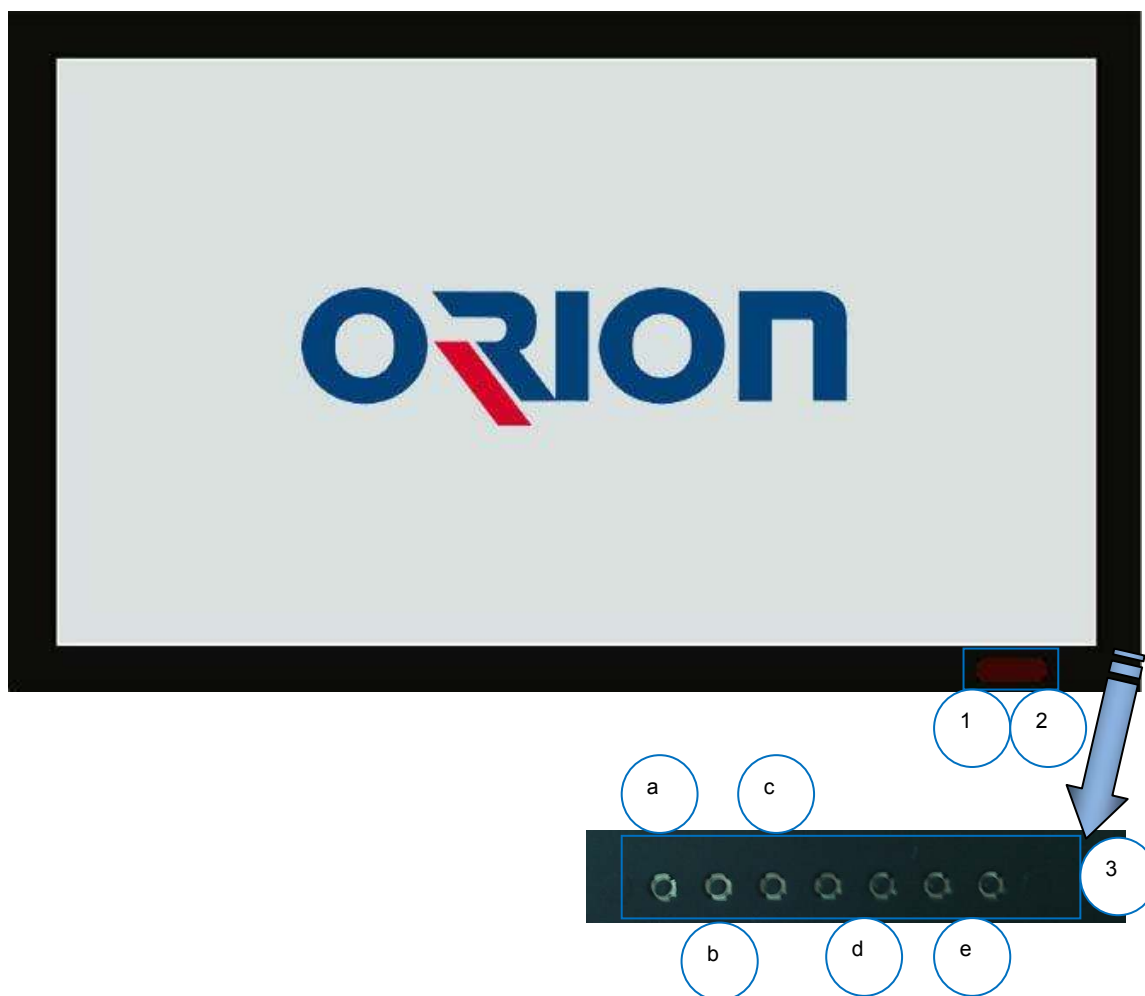HDMI Cable (Option)

Other

Remote Control

Batteries (AAA X 2)

Front

1. IR
   - Aim the remote control towards this spot on the LCD Display.
2. LED
   - LCD Power Status display(On : BLUE / Off : RED)
3. OSD KEY Input(Power / Menu / Source / Left / Right / Up / Down)
   a) Power : Turns the LCD Display On/ Off.
   b) Menu : Displays the main On-Screen menu.
   c) Source : Select Input Source

          - DVI   ⟶   PC

   d) Left/Right : Moves from one menu item to another horizontally or adjusts selected menu values. Adjusts the audio volume.
   e) Up/Down : Moves from one menu item to another vertically or adjusts selected menu values.

Rear
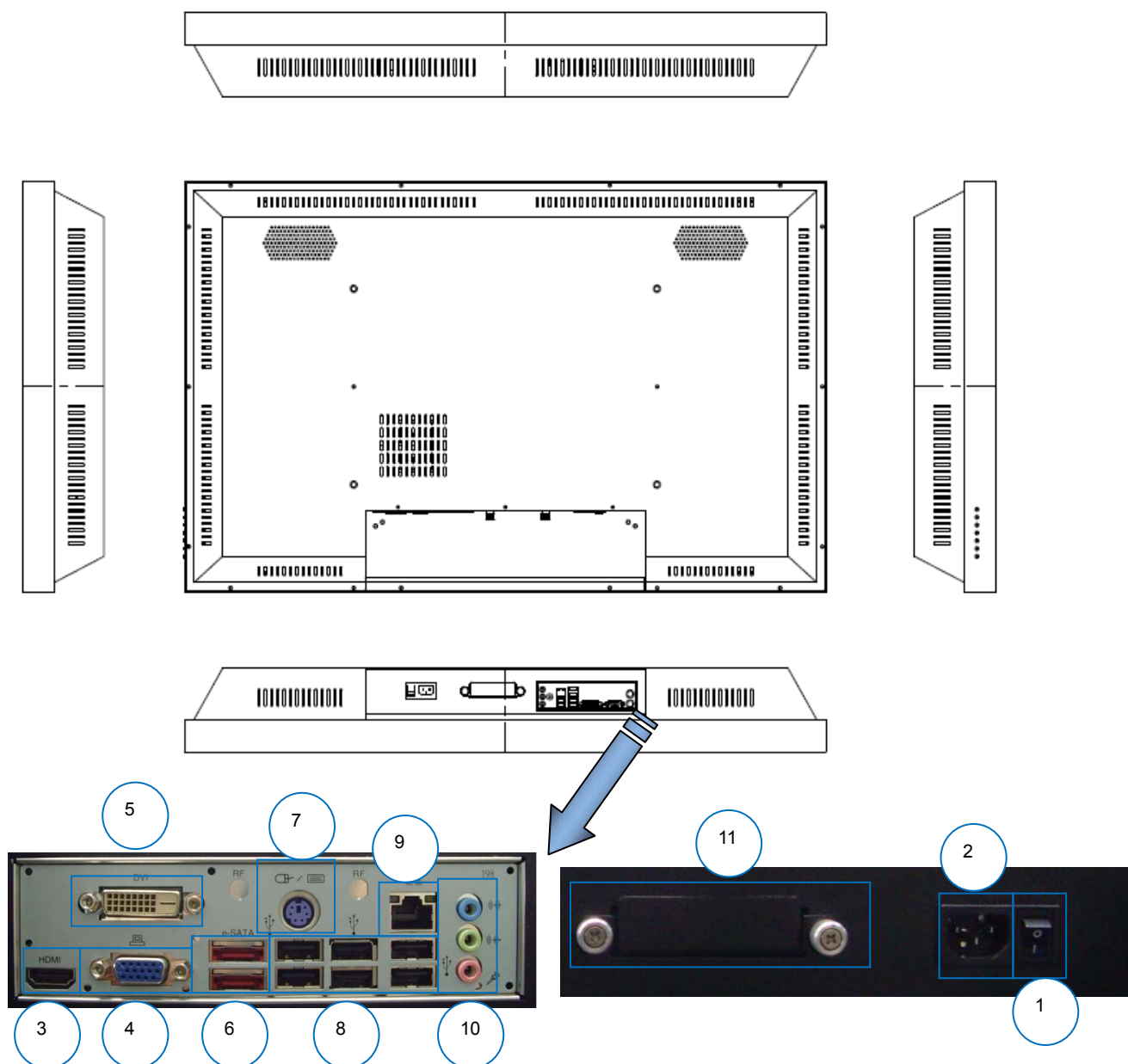
1. AC Power S/W On/Off.
2. AC Power In.(100V ~ 240V)
3. HDMI Out.
4. VGA Out.
5. DVI Out.
6. ESATA (2EA).
7. PS/2 Keyboard.
8. USB2.0 (6EA)
9. RJ45 LAN.
10. Audio Port.(Line-In / Line-Out / MIC-In)
11. HDD.

Remote control
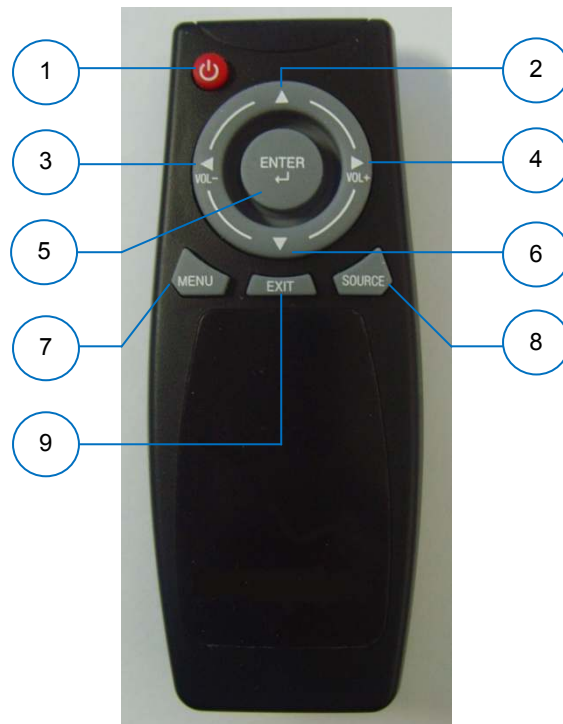
1. POWER: Turns the LCD Display On and Off & PC Power On and Off.

2. UP : Control the UP cursor in the menu

3, LEFT : Control the LEFT cursor in the menu

4, RIGHT : Control the RIGHT cursor in the menu

5, ENTER : Control the ENTER cursor in the menu

6, DOWN : Control the DOWN cursor in the menu

7. MENU: Displays the main On-Screen menu

8. SOURCE : Select Input Source
  - DVI   ⟶   PC

9. EXIT: Exit the On-Screen menu

Viewing the Menus

```
┌─────────────────────────┐
│                         │
│                         │
├─────────────────────────┤
│  ▣▶  Color              │
│      Image Setting      │
│      Position           │
│      OSD Menu           │
│      Language           │
│      Misc.              │
│      Audio              │
│      Exit               │
│                         │
│   1280 x 1024  60Hz     │
└─────────────────────────┘
```

◆ Press the MENU button.
The main menu is displayed on the screen.
Its left side has five Text: **Color, Image Setting, Position , OSD Meuu, Language, Misc., Audio and Exit.**

Changing the Color Standard

Your television has several setting options that allow you to control the picture quality.

```
┌─────────────────────────┐
│                         │
│                         │
├─────────────────────────┤
│  ▣▶  Color              │
│      Image Setting      │
│      Position           │
│      OSD Menu           │
│      Language           │
│      Misc.              │
│      Audio              │
│      Exit               │
│                         │
│   1280 x 1024  60Hz     │
└─────────────────────────┘
```

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Color**, then press the **ENTER** button.

3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
◆ **Contrast** –**Brightness**– **Color Adjust** –**Color Temp** –**Back**

◆ **Adjusts the Contrast and Brightness.**
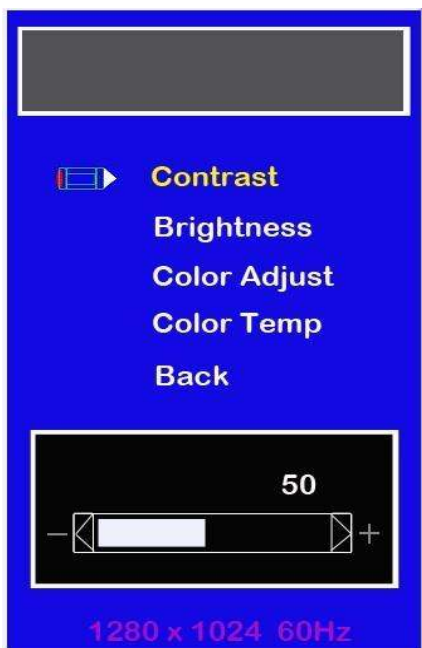
3-1. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
3-2 Press the ◄ or ► button until you reach the optimal setting.

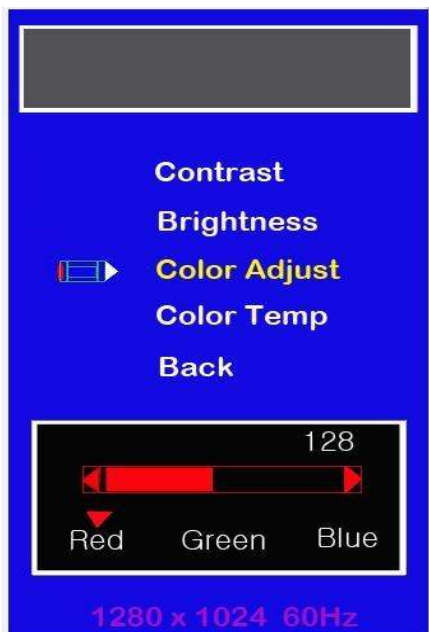◆ **Adjust the Color.** : It adjusts the intensity of the color.

3-3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
3-4. Select the required mode by pressing the ◀ or ▶ button, then press the **ENTER** button.
　　◆ **Red** –**Green**– **Blue**
3-5. Press the ◀ or ▶ button until you reach the optimal setting.

◆ **Adjusts the Color Temp.**

3-6. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
3-7. Press the ◄ or ► button until you reach the optimal setting.
　　◆ **9300 – 6500 – 5800 - sRGB - USER**

　　◆9300: This results in a blue tone.
　　◆6500: This results in a reddish tone.
　　◆5800: This results in a more reddish tone.
　　◆sRGB: This is standard color setting.
　　◆USER: This is user color setting.

　4. Press the **EXIT** button or Back Select to exit.

Changing the Image Standard

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Image Setting**, then press the **ENTER** button.
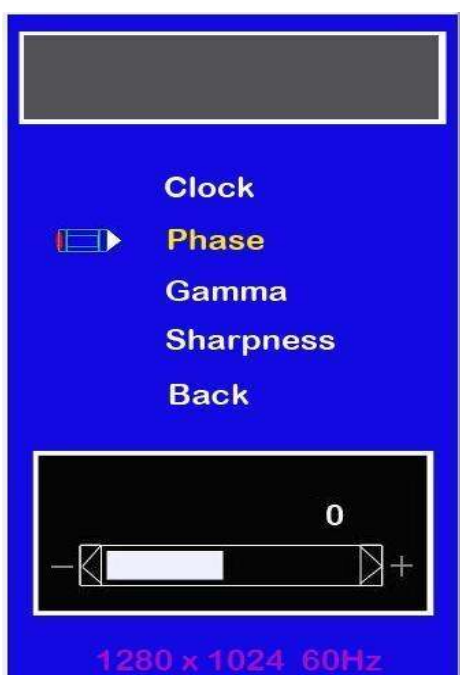

3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER**   button.
   ◆ **Clock** –**Phase**– **Gamma(not available)** –**Sharpness** –**Back**

   ◆ **Adjusts the Clock.**

   3-1. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
   3-2 Press the ◄ or ► button until you reach the optimal setting.

◆ **Adjusts the Phase.**

3-3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
3-4. Press the ◀ or ▶ button until you reach the optimal setting.

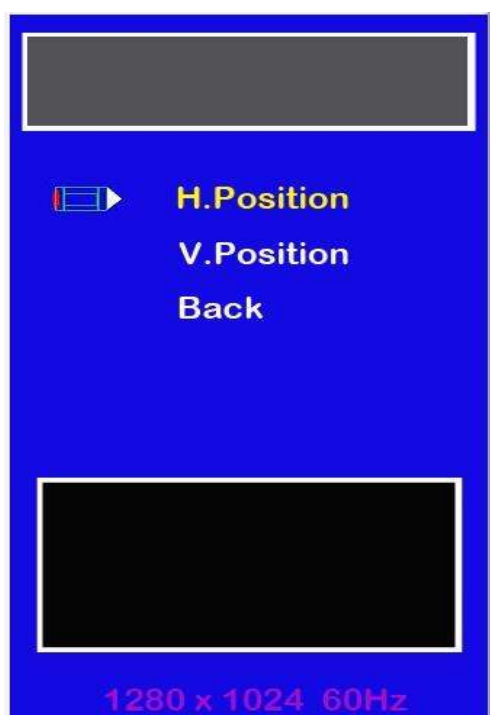◆ **Adjusts the Sharpness.**

3-5. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
3-6. Press the ◀ or ▶ button until you reach the optimal setting.
4. Press the **EXIT** button or Back Select to exit.

Changing the Position Standard

Color
Image Setting
Position
OSD Menu
Language
Misc.
Audio
Exit

1280 x 1024 60Hz

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Position**, then press the **ENTER** button.

H.Position
V.Position
Back

1280 x 1024 60Hz

3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
   ◆ **H.Position** –**V.Position** –**Back**

◆ **Adjusts the H.position and V.Position.**

3-1. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
3-2 Press the ◄ or ► button until you reach the optimal setting.
4. Press the **EXIT** button or Back Select to exit.
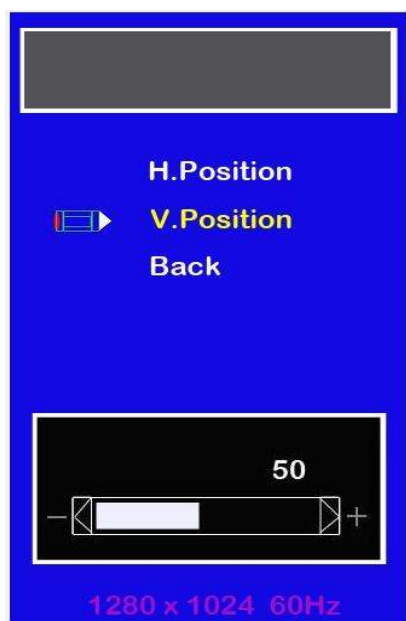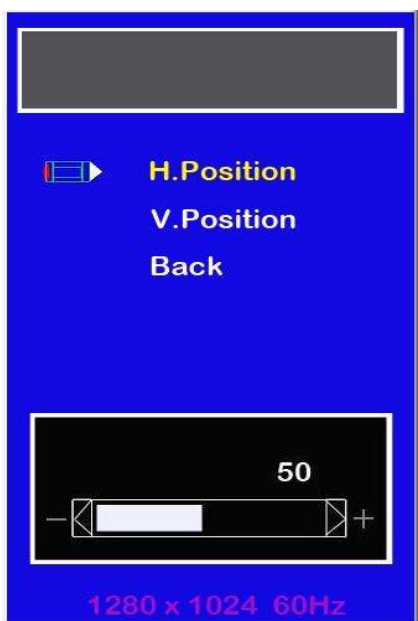
Changing the OSD Menu Standard

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **OSD Menu**, then press the **ENTER** button.

3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
  ◆ **OSD H.Pos** – **OSD V.Pos** – **OSD Time** –**Back**

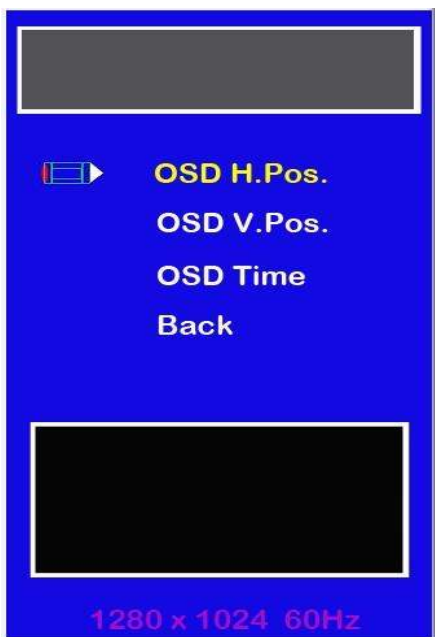 ◆ **Adjusts the OSD H.Pos and OSD V.Pos.**

3-1. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
3-2 Press the ◄ or ► button until you reach the optimal setting.

◆ **Adjusts the OSD Time.**

3-3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
3-4. Press the ◄ or ► button until you reach the optimal setting.

4. Press the **EXIT** button or Back Select to exit.

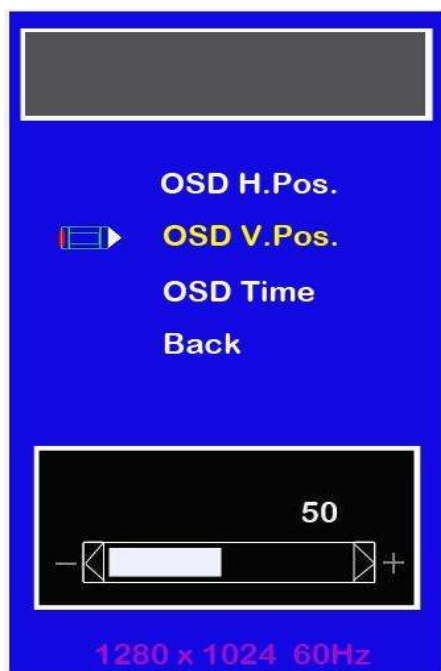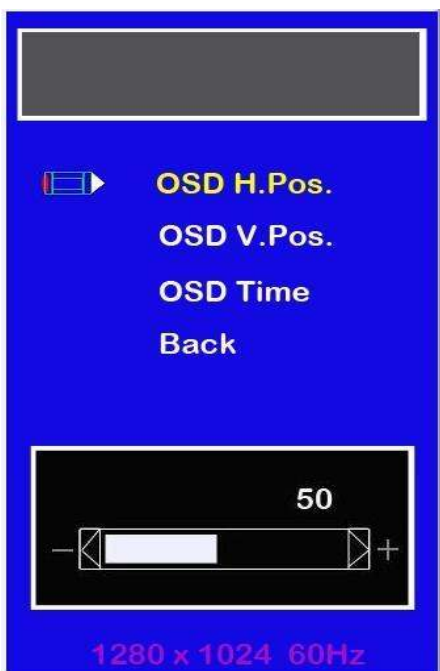## Changing the Language Standard

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Language**, then press the **ENTER** button.

3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
   ◆ **Language**
      It is variable depending on the model. When you start using the television for the first time, you must select the language which will be used for displaying menus and indications.

4. Press the **EXIT** button or Back Select to exit.

Changing the Misc. Standard

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Misc.**, then press the **ENTER** button.
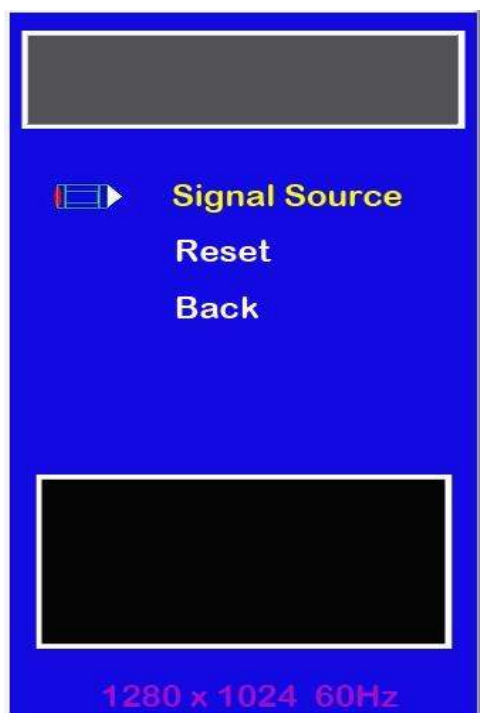
3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
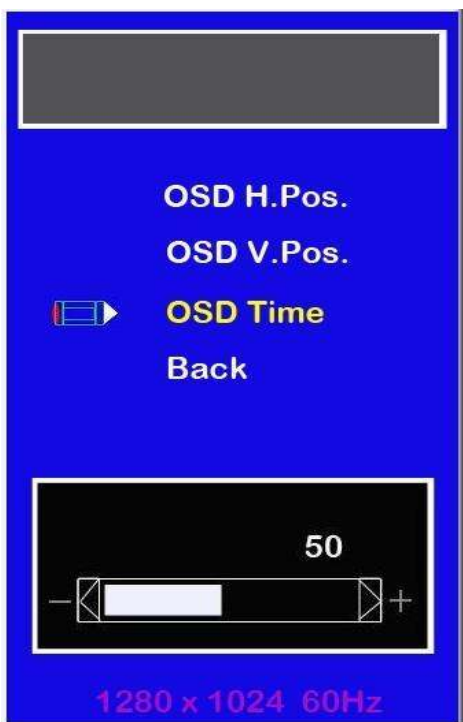
◆ **Adjusts the OSD Time.**
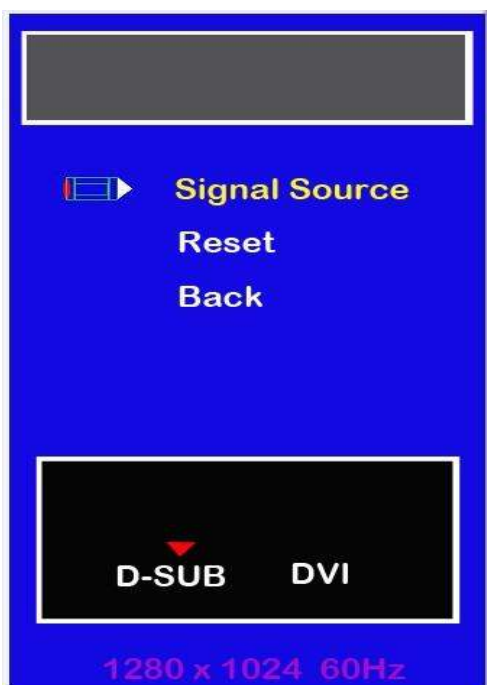
3-1. Select the required mode by pressing the ◄ or ► button, then press the **ENTER** button.
◆ Changing the input Source D-SUB and   DVI.

23 of 33
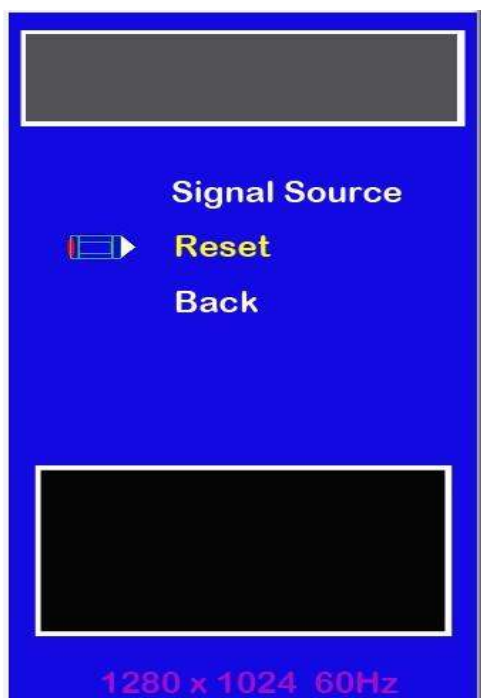
◆ **Reset.**

3-2. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
    ◆ **Reset**: You can return to the factory defaults settings
4. Press the **EXIT** button or Back Select to exit.

Changing the Audio Standard

1. Press the **MENU** button to display the menu.
2. Press the ▲ or ▼ button to select **Audio.**, then press the **ENTER** button.
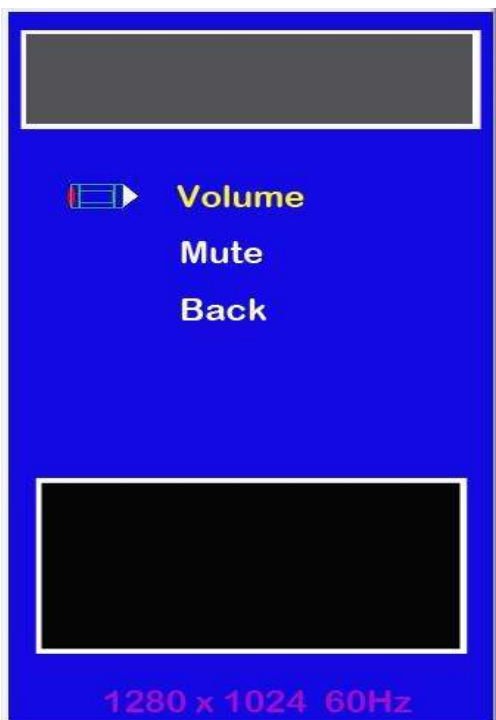
3. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.

◆ **Adjusts the Volume.**
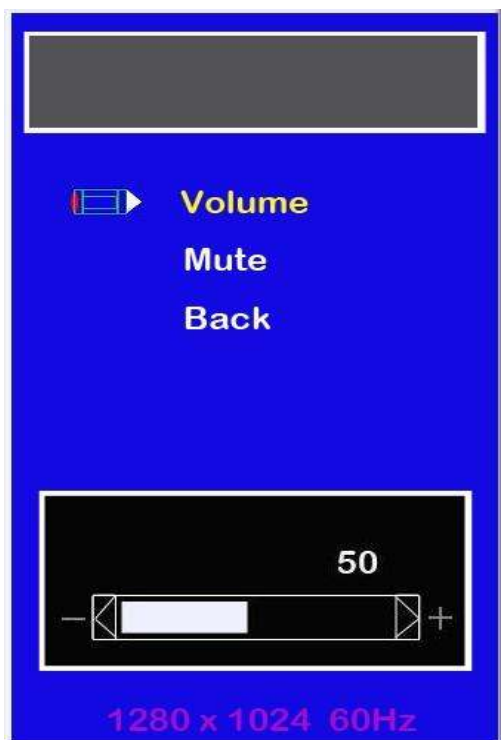

3-1. Press the ◄ or ► button until you reach the optimal setting.

◆ **Adjusts the** Mute**.**
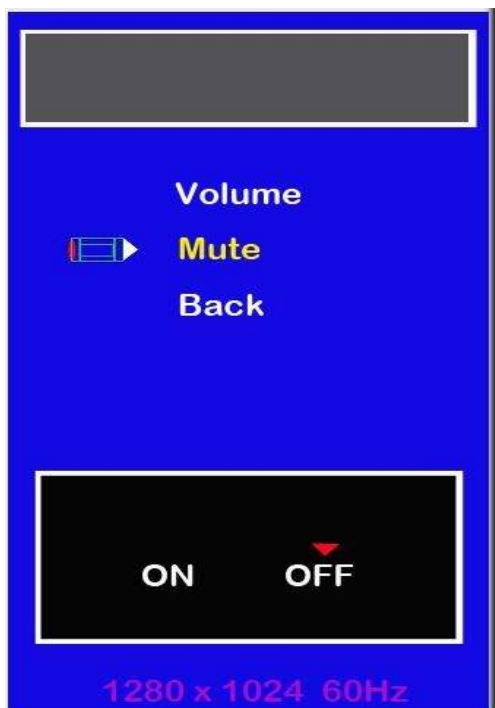
3-2. Press the ◀ or ▶ button until you reach the optimal setting.
4. Press the **EXIT** button or Back Select to exit.

Changing the Exit.

1. Select the required mode by pressing the ▲ or ▼ button, then press the **ENTER** button.
◆ **OSD Menu Exit.**

Specifications

OLS-3201PGB

Items		Specifications
32 inch	Display Size	32 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Pixel Size	0.51075(H) x 0. 51075 (V) mm
	Resolution	1366 x 768 (WXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	600cd/m^2 (Typ)
	Contrast Ratio	2000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	760.0(H Typ) x 450.0(V Typ)
POWER	AC Input	AC 100~240V~, 50/60Hz, 1A
	Power Consumption	210W

OLS-4001PGB

Items		Specifications
40 inch	Display Size	40 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Pixel Size	0.461225(H) x 0. 461225 (V) mm
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	450cd/m^2 (Typ)
	Contrast Ratio	4000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	952.0(H Typ) x 551.0(V Typ)
POWER	AC Input	AC 100~240V~, 50/60Hz, 1A
	Power Consumption	260W

OLS-4001PGP

Items		Specifications
40 inch	Display Size	40 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Pixel Size	0.46125(H) x 0. 46125 (V) mm
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	700cd/m^2 (Typ)
	Contrast Ratio	3000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	911.7(H Typ) x 524.0(V Typ)
POWER	AC Input	AC 100~240V~, 50/60Hz, 1A
	Power Consumption	260W

OLS-4601PGB

Items		Specifications
46 inch	Display Size	46 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Pixel Size	0.53025(H) x 0. 53025 (V) mm
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	450cd/m^2 (Typ)
	Contrast Ratio	4000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	1083.0(H Typ) x 627.0(V Typ)
POWER	AC Input	AC 100~240V~, 50/60Hz, 1.5A
	Power Consumption	320W

OLS-4601PGP

Items		Specifications
46 inch	Display Size	46 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Pixel Size	0.53025(H) x 0. 53025 (V) mm
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	700cd/m^2 (Typ)
	Contrast Ratio	3000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	1018.08(H Typ) x 572.67V Typ)
POWER	AC Input	AC 100~240V~, 50/60Hz, 1.5A
	Power Consumption	320W

OLS-5501PGB

Items		Specifications
55 inch	Display Size	55 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	450cd/m^2 (Typ)
	Contrast Ratio	5000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	1209.2 (H) x 680.4 (V)
POWER	AC Input	AC 100~240V~, 50/60Hz, 1.5A
	Power Consumption	380W

OLS-5501PGP

Items		Specifications
55 inch	Display Size	55 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	700cd/m^2 (Typ)
	Contrast Ratio	3000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	1209.2 (H) x 680.4 (V)
POWER	AC Input	AC 100~240V~, 50/60Hz, 1.5A
	Power Consumption	400W

OLS-7001PGB

Items		Specifications
70 inch	Display Size	70 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Pixel Size	0.807(H) x 0. 807 (V) mm
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	450cd/m^2 (Typ)
	Contrast Ratio	2000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	952.0(H Typ) x 551.0(V Typ)
POWER	AC Input	AC 100~240V~, 50/60Hz, 9.2A
	Power Consumption	920W

OLS-7001PGP

Items		Specifications
70 inch	Display Size	70 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Pixel Size	0.807(H) x 0. 807 (V) mm
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	600cd/㎡ (Typ)
	Contrast Ratio	2000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
	Panel Size	952.0(H Typ) x 551.0(V Typ)
POWER	AC Input	AC 100~240V~, 50/60Hz, 9.2A
	Power Consumption	950W

OLS-8201PGB

Items		Specifications
82 inch	Display Size	82 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	450cd/㎡ (Typ)
	Contrast Ratio	2000:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
POWER	AC Input	AC 100~240V~, 50/60Hz
	Power Consumption	950W

OLS-8201PGP

Items		Specifications
82 inch	Display Size	82 Inch (16:9) : LCD / S-PVA TFT
	Response Time	8 ms(Typ G to G)
	Resolution	1920 x 1080 (WUXGA)
	Colors	8 bit, 16.7M Colors
	Brightness	600 cd/㎡ (Typ)
	Contrast Ratio	1200:1
	View Angle	Hor. 178 Degree(Typ), Ver. 178 Degree(Typ)
	Surface Treatment	Hard coating(3H), Haze 44%
POWER	AC Input	AC 100~240V~, 50/60Hz
	Power Consumption	980W

Items		Specifications
PC	CPU	AMD 3.0G
	Main Board	MINI ITX
	Memory	2G
	HDD	160G
	Graphic	NVIDIA 8200
	OS	EMBEDDED STANDARD

EWF (Enhanced Write Filter)

Most of the characteristics of the XPE feature is to use the EWF.
This is to protect the disk, as well as to protect the system files you can enjoy a twofer.
The principle is simple.
Jungle of the disk to the operating system and Overlay (RAM or Disk) and having the disk write
When done, Overlay be made in writing is to create.

Look at the picture below, the faster you will understand.

```
                    Application

                                Write

         File system


            ⇕

            EWF    ⇔    Overlay
                        (RAM or Disk)

            ⇕

          Partition
```
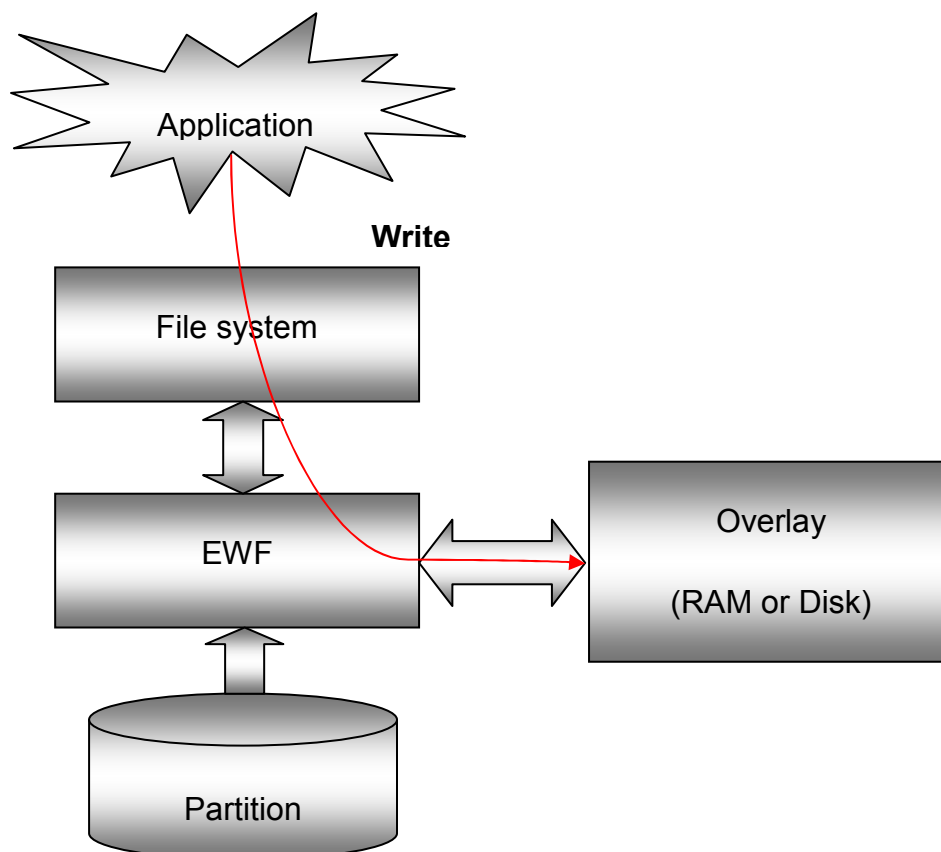
EWF is protecting the painting to be done at the point of writing indicates that when you know how it all works.
Overlay does not write directly on the partition to copy the file that is in the region.
EWF is protected from the outside that you or your system settings, if you copy a file to actually Disk
Copy or in the area, which is set to Overlay, which is not. If you use the RAM Overlay
When you reboot, all the copies has been set, or will be lost.

➢ C drive by the EWF function is to protect the System file.
   Add a program or file on the C drive, reboot and nevertheless addition will be deleted.
   Remember to add the program or file, please work on the D drive.

➢ Operating Temperature : 0℃ ~ 32℃.

➢ Quality assurance : The warranty period is one year
   ※ This product can be changed to improve performance without notification.

➢ The up contents not to notify can be changed.

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