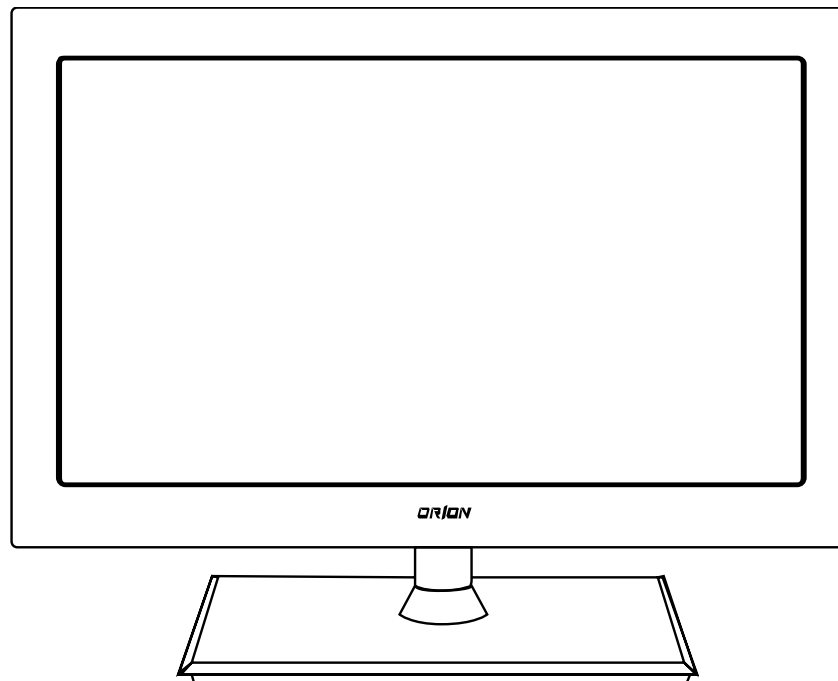


LED



18.5" / 21.5" / 23" ECONOMIC
LED DISPLAY MONITOR

Warning Statements

* Follow this safety instruction to use the monitor properly and prevent the damages.

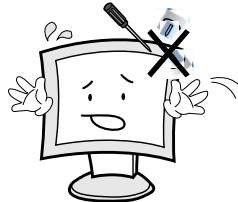
* This safety instruction has "Warning" and "Caution" as below.

WARNING: If the user does not follow this instruction, it may cause the serious damage to the user.

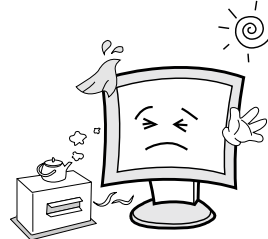
CAUTION: If the user does not follow this instruction, it may cause the slight damage to the user or cause some damages to the monitor.

* Keep this user's guide book for later use.

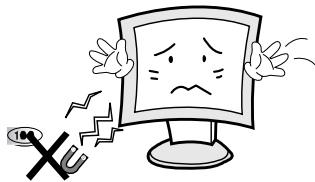
Never remove the back over and touch the inside of the monitor. If you need a service, please contact the service center.



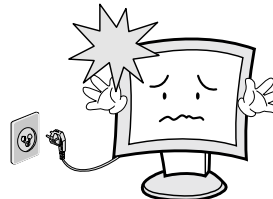
Keep away the monitor from the direct sunlight and a heating appliance.



Never push objects of any kind into this product as they may result in a risk of fire or electric shock.

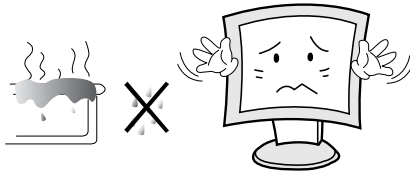


Connect the power code to the wall outlet tightly. If the power code or plug are defective and the wall outlet is not tight, please do not use them.

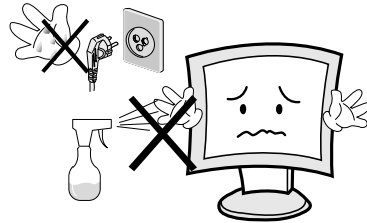


Warning Statements

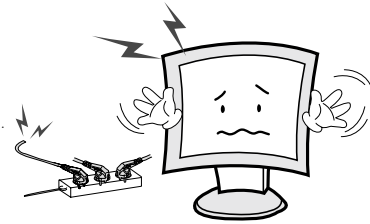
Do not install this monitor on the outside and near water. It may cause damage to the product, electric shock and fire.



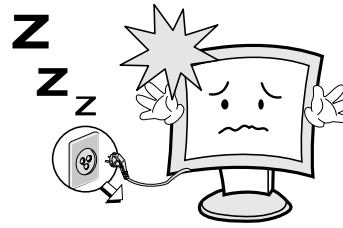
For cleaning do not use liquid cleaners. Never touch the power plug with wet hands.



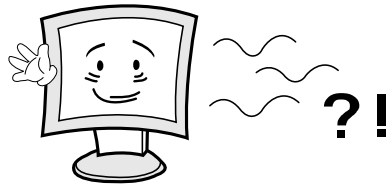
When lightning and thundering, unplug the monitor from the wall outlet and never touch it.



Unplug this product from the wall outlet, when it does not operate for a long time.



When smoking and noising from the monitor, unplug the product from the wall outlet and contact a service center.

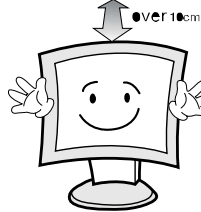


How to fix

1. Do not open this product as it contains high voltage inside.
2. It may create an electric shock.
3. If the user disassembles and remove the back cover, it does not make sure
4. To make up for the damages and do a service and exchange the monitor..

Cautions

Install this monitor some distance
From the wall and do not install unless
Proper ventilation is provided.



Place this product on a stable place.
If not, it may fall, causing serious
Damages to the monitor and people.



The openings must not be blocked by
curtain, rug or other similar surface.



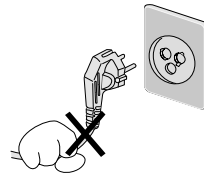
When carrying this monitor, be careful
not to damage the panel and drop it
It may cause some trouble.



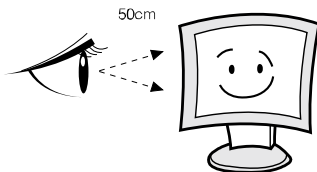
Before carrying the monitor, turn it off
and Unplug the signal cables and the
power cord From the wall outlet.



Take the power plug out from the wall
outlet. Do not pull the cable. It may
snap the inner wires and cause
overheating and fire.



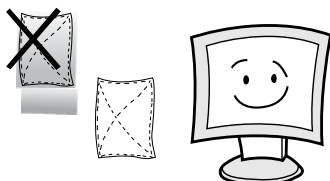
Install this monitor about 50cm far from
the eyes and an angle of 0~15 degrees
below eyes. Too close installation may
cause having weak sight.



Do not press the LCD panel with hands
or the sharpened material hardly.



For cleaning, unplug the monitor from
the Wall outlet. Do not use the liquid
cloth. Use the soft cloth.



Do not use the chemical liquid for
cleaning. It may cause fading and
breakage.



TABLE OF CONTENTS

1. INSTALLATION	6
1.1 Unpacking	6
1.2 Part List	6
1.3 Main Functional Button	7
1.4 Connection	8
1.5 Remote Controller	9
2. OSD SETTING	10-12
3. FEATURES	13
3.1 Specifications	13
4. APPENDIX	14
5. INFORMATION TO THE USER	15
6. TROUBLESHOOTING	16
7. LIMITED WARRANTY	17

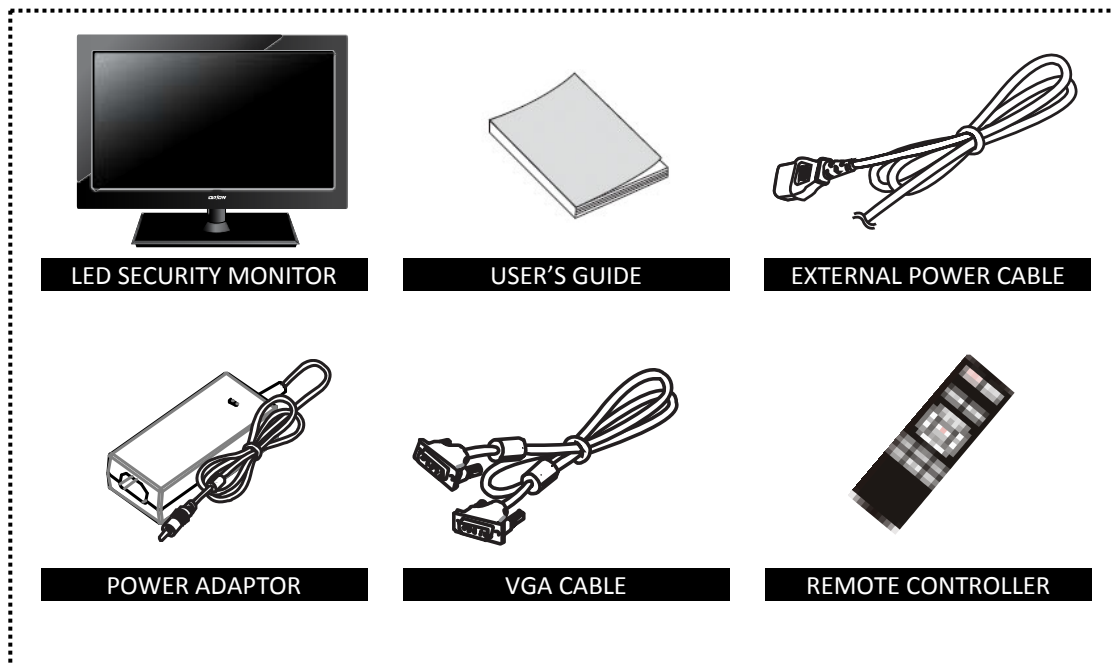
INSTALLATION

1.1 Unpacking

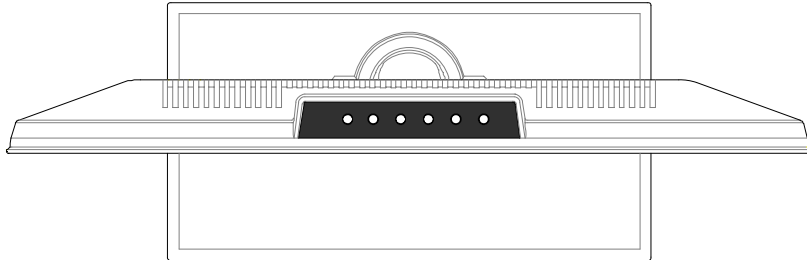
Remove the package cover and place the product on a flat and secure surface or in the installation location. This equipment should be unpacked and handled with care. If an item appears to have been damaged in shipment, notify the shipper immediately. Check whether all the following device and accessories are included with the main system. If any items are missing, notify your Sales or Customer Service Representative.

1.2 Part List

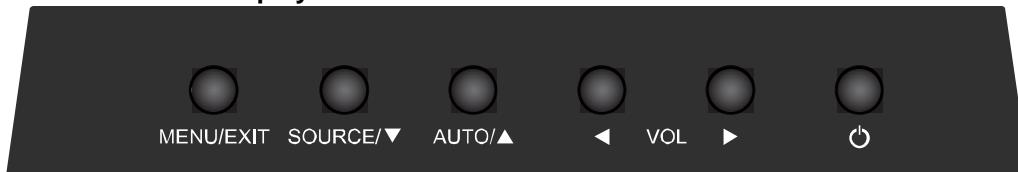
The following table lists the parts included:



1.3 Main Functional Button



18.5 / 21.5 Inch Display

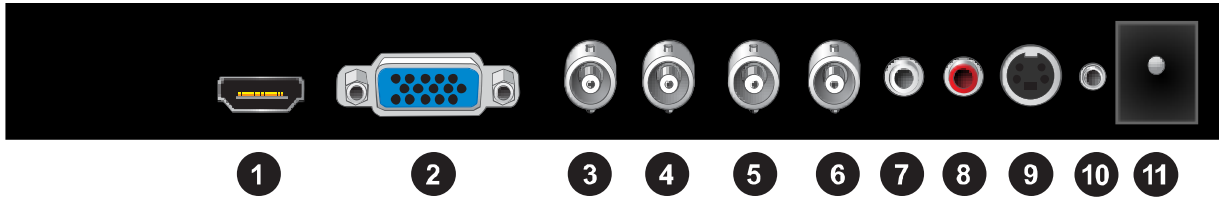


23 Inch Display



- 1 **MENU/EXIT**
Activate and exit the OSD.
- 2 **▼/SOURCE**
Select input source and move the OSD menu.
- 3 **▲/AUTO**
Move the OSD menu and auto adjustment of RGB source.
- 4 **◀/VOLUME**
Decrease the level of volume and move the previous menu.
- 5 **▶/SELECT**
Increase the level of volume and move the OSD menu.
- 6 **⏻**
Turns the power ON or OFF. There will be a few seconds delay before the display appears. The power LED(next to the power switch) lights with green when the power is turned ON. The power is turned off by pressing the power switch again and the power LED goes Red.

1.4 Connection



- 1 HDMI In**
Connect the HDMI signal cable.
- 2 VGB In (15 Pin D-SUB)**
Connect the VGA signal cable.
- 3 AV1 In**
Composite signal input for AV1.
- 4 AV1 Out**
Video looping output for AV1.
- 5 AV2 In**
Composite signal input for AV2.
- 6 AV2 Out**
Video looping output for AV2.
- 7 8 AUDIO In**
Stereo audio signal input. This input for AV1 and S-VIDEO.
- 9 S-VIDEO In**
Y/C separated signal input.
- 10 PC AUDIO In**
- 11 DC 12V In**

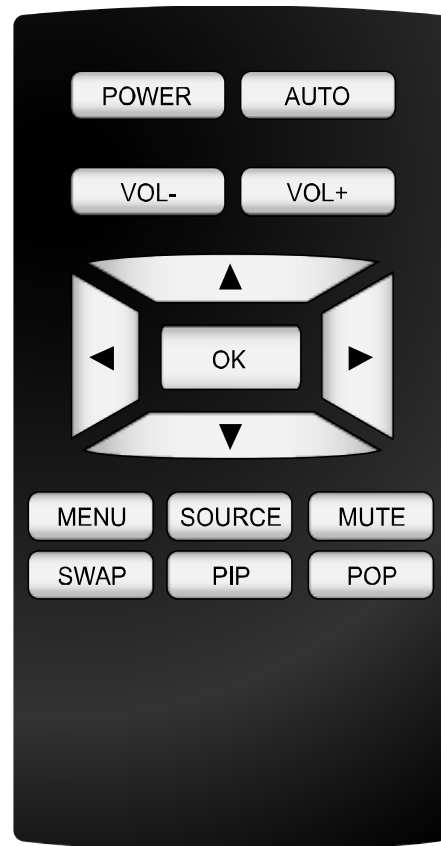
1.5 Remote Controller

A. SOURCE SELECT

Press the button to select the desired input source.
(AV 1, S-VIDEO, RGB... etc)

B. CONTROL MENU

- **POWER**
Turn the monitor ON or OFF.
- **MUTE**
Temporarily silences the sound.
- **AUTO**
Adjust the picture quality of the screen.
- **MENU**
Activates and exits the OSD menu.
- **◀▶▲▼**
Adjust the right, left, down, up, of the OSD menu.
- **VOL -**
Decrease the sound.
- **VOL +**
Increase the sound.
- **OK / SWAP / PIP / POP**
This function key is not appropriate for this type of monitor.



OSD (On Screen Display) SETTING

■ A. INPUT Select

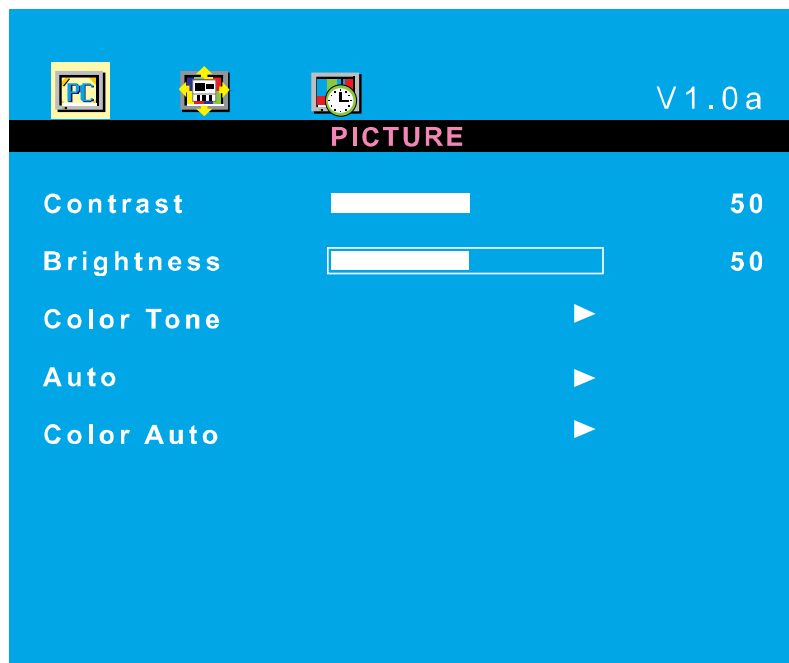
Inputs can be set to AV1, AV2, S-VIDEO, HDMI and PC mode.



■ B. MENU SELECTON

- 1 Press the **MENU/EXIT** key to access the main menu.
- 2 Use the **▲** and **▼** arrow key to highlight a selection.
- 3 Press the **▶/SELECT** key to select an item.
- 4 Use the **▲** and **▼** arrow key to highlight a selection.
- 5 Use the **◀** and **▶** arrow key to adjust the setting on a selected item.

■ C. PICTURE MENU on OSD



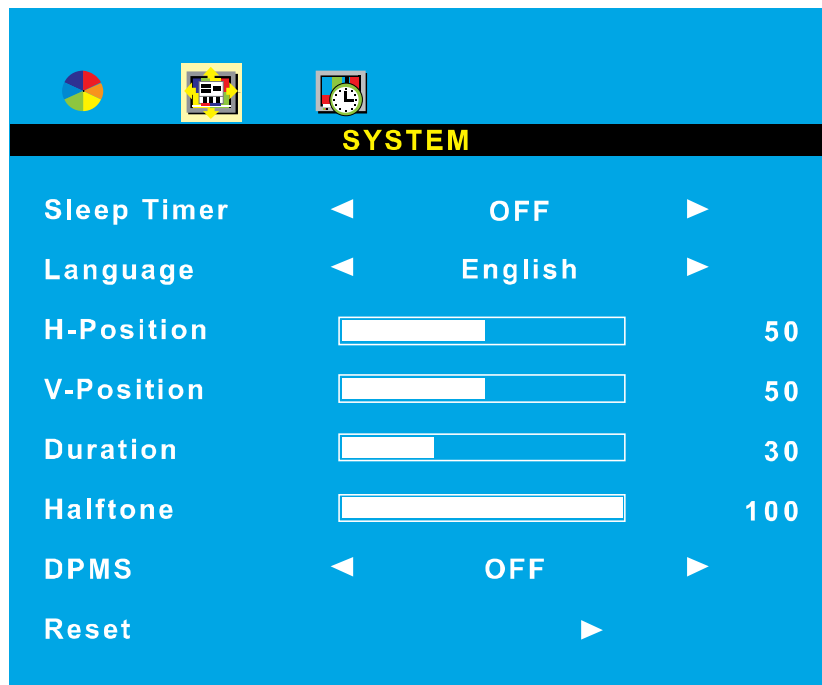
- 1 Press **MENU/EXIT** button and then **◀** or **▶** button to select **PICTURE** menu.
- 2 Press **▲** or **▼** arrow button to select the adjustment item you need.
- 3 Press **◀** or **▶** to activate the item.

Ex) if you select the BRIGHTNESS, below picture appears on the bottom of the screen.



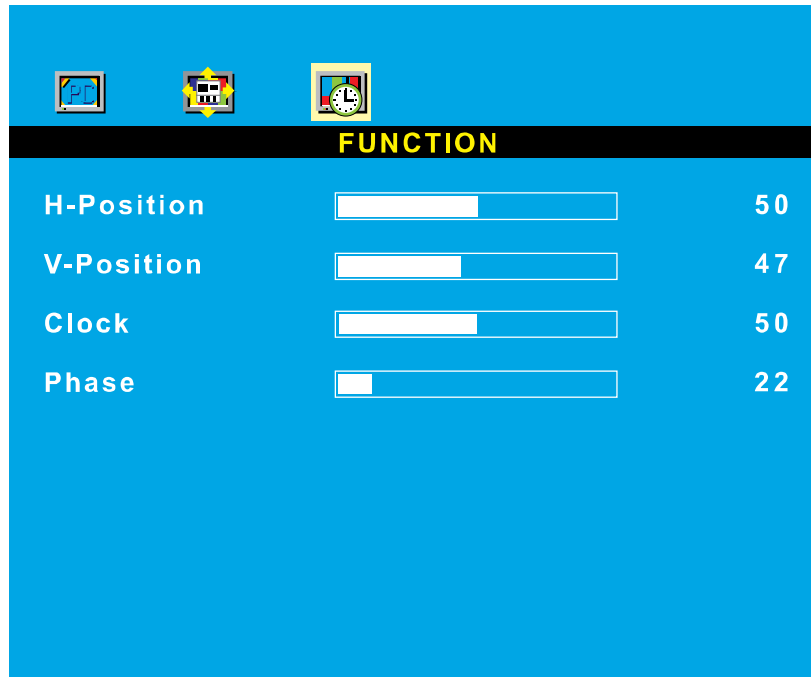
4 Press **MENU/EXIT** to previous screen.

■ D. SYSTEM MENU on OSD



- 1 Press **MENU/EXIT** and then ◀ or ▶ to select the **SYSTEM** menu.
- 2 Press ▲ or ▼ to select and control the adjustable menu item.
- 3 Press ◀ or ▶ to activate the menu item.
- 4 Press **MENU/EXIT** to previous screen.

■ E. FUNCTION MENU on OSD



- 1 Press **MENU/EXIT** and then ◀ or ▶ to select the **FUNCTION** menu.
- 2 Press ▲ or ▼ to select and control the adjustable menu item.
- 3 Press ◀ or ▶ to activate the menu item.
- 4 Press **MENU/EXIT** to previous screen.

FEATURES

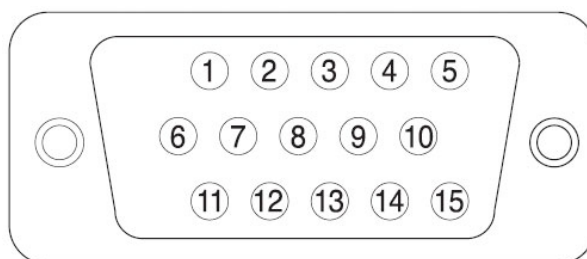
3.1 Specification

VIDEO			
Screen Size	18.5"	21.5"	23"
Pixel Type	Active Matrix TFT	Active Matrix TFT	Active Matrix TFT
Panel Resolution	1366 x 768 @60Hz	1920 x 1080 @60Hz	1920 x 1080 @60Hz
Pixel Pitch	0.3mm x 0.3mm	0.248 x 0.248 mm	0.265 x 0.265 mm
Brightness	250cd/m ²	250cd/m ²	250cd/m ²
Contrast Ratio	1000 : 1	1000:1	1000:1
Aspect Ratio	16 : 9	16 : 9	16 : 9
Viewing Angle (H/V)	170°/160°	170°/160°	170°/160°
Display Color	16.7 Million	16.7 Million	16.7 Million
Response Time	< 5ms	< 5ms	< 5ms
Video System	NTSC / PAL / SECAM	NTSC / PAL / SECAM	NTSC / PAL / SECAM
Frequency (H)	60 ~ 81KHz	60 ~ 81KHz	60 ~ 81KHz
Frequency (V)	55 ~ 75Hz	55 ~ 75Hz	55 ~ 75Hz
Panel Lamp Life	30,000hours	30,000hours	30,000hours
MECHANICAL			
Outline Dimension W x H x D	18.3" x 13.8" x 5.9"	21.1" x 15.9" x 5.9	23.1" x 16.8" X 6.3"
Net Weight	3.42Kg (7.56 lbs)	3.99Kg (8.818 lbs)	4.99Kg (11.02 lbs)
Power Consumption	< 25W	< 30W	< 30W
Power Source	DC12V / 3.7A adapter (Auto Switching)		

APPENDIX

4.1 D-SUB Connector PIN Assignment

PIN NO.	PIN Name	PIN NO.	PIN Name
1	RED VIDEO	9	NC
2	GREEN VIDEO	10	SIGNAL CABLE DETECT
3	BLUE VIDEO	11	GROUND
4	GROUND	12	SDA (for DDC)
5	GROUND	13	H-SYNC
6	RED GROUND	14	V-SYNC
7	GREEN GROUND	15	SCL (for DDC)
8	BLUE GROUND		



INFORMATION TO THE USER

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / TV technician for help.

WARNING:

The manufacturer is not responsible for any Radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment."

TROUBLESHOOTING

* When the following troubles are occurred, follow the trouble shooting. Before contacting a service center.

Troubleshooting	Troubleshooting Tip
The screen doesn't show up	1. Make sure if the power supply is connected property
	2. Turn on the power.
	3. Select the input signal right for the connected port.
The screen is too light or to dark	Control the BRIGHTNESS
The screen size is not fit for the PC signal	Press the AUTO key among keys in the front. (It is used only in the PC signal)
The screen color shows strange in the PC signal	In the FUNCTION menu of OSD menu, perform the AUTO-ADJUST.

2Year Limited Warranty

All **Orion Images** products carry a limited warranty from ship date against defects in materials and workmanship. Orion Images is not liable for improper installation that results in damage to mounts, adapters, display equipment or personal injury.

Contact Orion Images

In the event of missing and/or damage equipment, or technical questions, the following information can help in the completion of the installation.

Address: 7300 Bolsa Avenue, Westminster, CA 92683

Tel: 714-766-6300 / Fax: 714-766-6310

Email: rma@orionimages.com

Website: <http://www.orionimages.com>