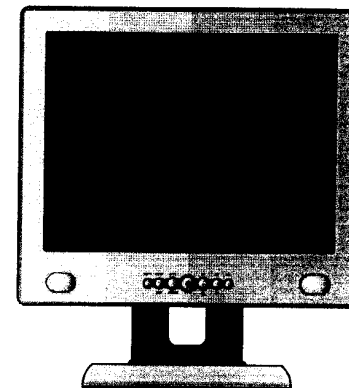


H950

19



Hansol Electronics Inc.

Hansol

INFORMATION TO USER :

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation; if this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

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

CAUTION

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment

ENERGY STAR

As an ENERGY STAR partner, Hansol Electronics Inc. has determined that this product meets energy Star guidelines for energy efficiency.

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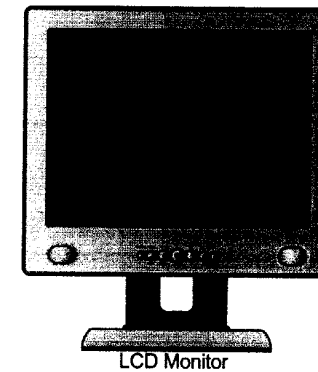
Good Posture Guide

- ◆ Place the monitor to face the user and then adjust the monitor angle.
- ◆ Take a break (for about 10 minutes) at every hour during the work with monitor.
- ◆ Refer to the following figure to take the correct posture.



- Look down the monitor below the horizon.
- Adjust the monitor to prevent reflection.
- Relax shoulders and arms, and sit back on the chair.
- Adjust the monitor stand to acquire required angle.
- Maintain the arms horizontally and place hands softly on the keyboard.
- Keep feet flat on the ground.

Parts



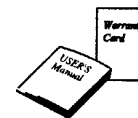
Signal Cable (Analog)



Stereo Cable (Option)



AC Power Cable



User's Manual /
Warranty Card



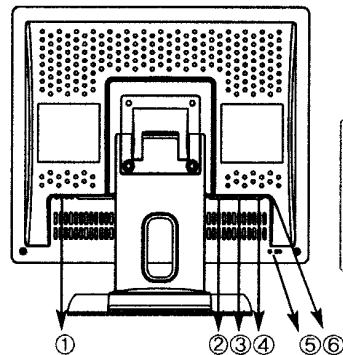
Installation Diskette



Signal Cable (DVI)

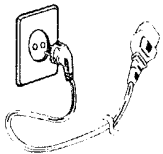
Connection to Signal Source

Basic Connection



- ① Port for AC power cable
- ② Port for Audio cable from audio source.
- ③ Port for Head Phone or External Speaker
- ④ Port for signal cable from DVI signal source.
- ⑤ Kensington Lock
- ⑥ Port for signal cable from analog signal source.

< Power source connection >



1. Use 220 V or 110 V. (Free Voltage)
2. Connect monitor and Signal Source via Signal cable
3. Power on the monitor and computer.
4. Connection is finished.

< Signal cable connection >

► General

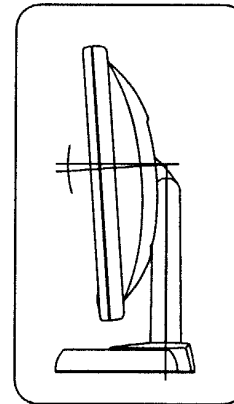


► For Macintosh

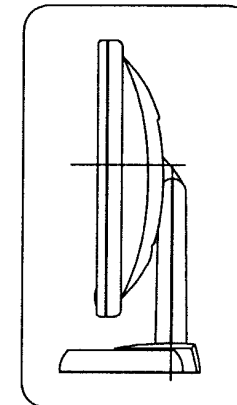


The range of control Angle

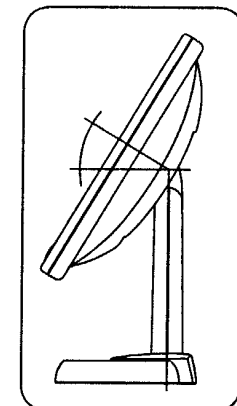
▼ How to Adjust the Stand



▲ Forward 3°



▲ Default



▲ Backward 30°

Installing Monitor Driver

Run (Click) "Install" at Floppy Diskette driver and select the model name to set the optimum display in Window 95, 98 or 2000, XP.

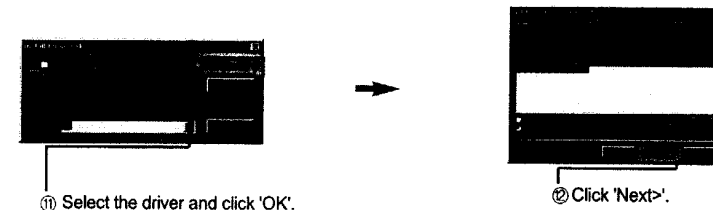
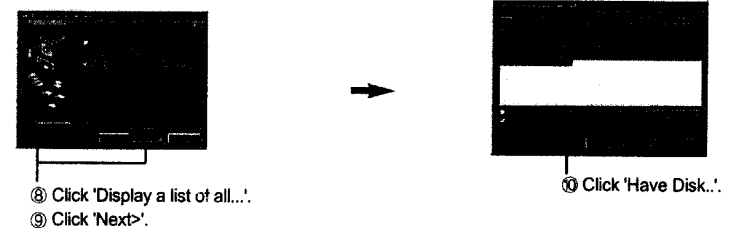
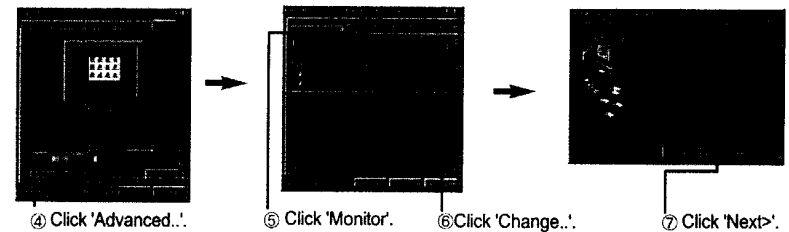
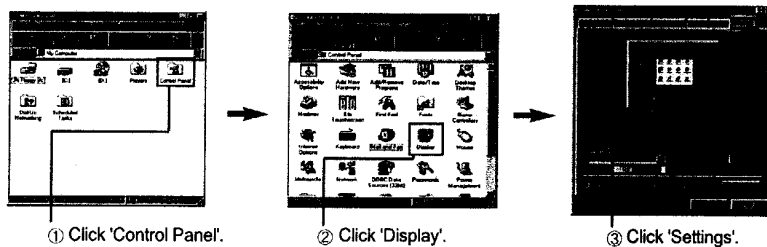
► Use the Driver provided.

Automatic Installation

1. Insert the Diskette to the Floppy Diskette driver.
2. Double-click "Install.exe".
3. Select the model and click "OK" button.
4. Select inf file, and then click "OK" button.
5. Click "Exit" button to close the installation.

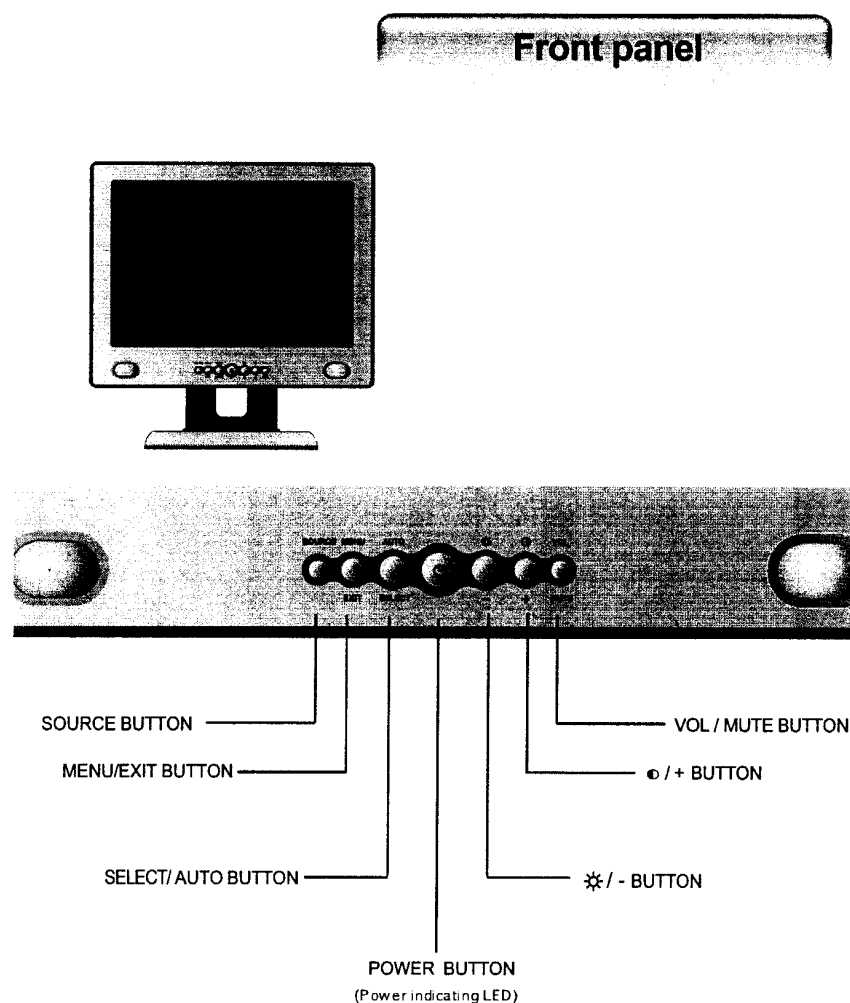
Manual Installation

1. Insert the Diskette to the Floppy Diskette driver.
2. Click 'My Computer' and follow the procedure below.



3. Select "Exit" if the monitor model is changed, and then reboot the Windows.

Name and Function of Front



Functions

- ◆ **Power button**
Power button is located in the lower center of the Front Bezel.
You can push the button to turn on/off the power.
- ◆ **Power Indicating LED**
 - Dark : Power off
 - Green : Normal mode
 - Green blinking : DPMS mode or Check Signal Cable mode.
- ◆ **On Screen Display (OSD) Function Button**
OSD buttons on the front of bezel perform the following functions.
 - SOURCE : Press this button to change Analog/DVI display.
 - MENU/EXIT : Press this button to display menus. if you press this button when OSD is displayed, you can switch display to the previous menu and exit menu.
 - SELECT/ AUTO : Press this button, when OSD is not displayed, to perform automatic setting.
When OSD is displayed, You can select icons.
 - POWER : Power button.
 - +/⦿. -/⚙ : By pressing these button when OSD is displayed, You can move cursor into the menus which you want.
After press the SELECT button, you can change gauge level or select submenus.
When OSD is not displayed, you can adjust brightness or contrast.
 - VOLUME / MUTE : Press this button for volume control. when control is displayed, You can control mute by pressing this button

Power Management Feature

The monitor is equipped with a power saving circuit that confirms to the world-standard Display Power Manager Signalling (DPMS) mode of Video Electronics Standard Association (VESA). The power management feature requires that the video card of the computer should support DPMS function.

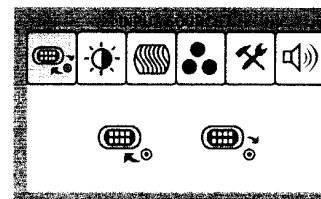
Status	LED Sign	Power Consumption
Normal mode	Green ON	Normal Power
DPMS mode	Green Blinking	1W or Below(Analog)/ 3.5W or Below(DVI)
DPMS with Audio (Option)		
Mute ON		1W or Below(Analog)/ 3.5W or Below(DVI)
Mute OFF		10W or Below

No image is displayed with Green blinking.
Monitor is in power saving mode.
Use mouse or keyboard to release power saving mode.

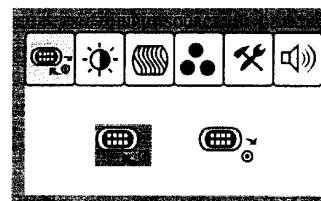
No image is displayed without LED on.
Power cable plug must be pulled out.
Check the power plug on monitor and on the wall.

"Out of range" displayed on the screen.
This message is displayed when the signal from video card exceeds the maximum frequency of the monitor. Readjust resolution and frequency in accordance with the monitor capacity. (Refer to Standard Signal Table)

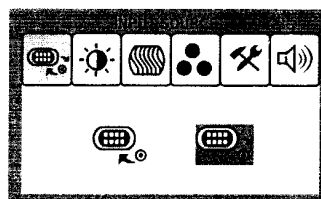
Adjusting OSD



◆ Input Source Submenu



◆ Input Source Submenu



Input Source

MENU → - + → SELECT

1. Press the MENU button to access main menu.
2. Use -, + to move Input source ICON.
3. Press SELECT button into the submenu.

Digital Input

- + → SELECT

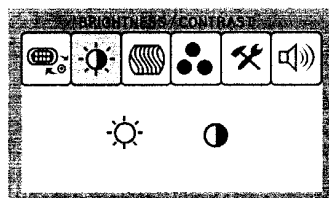
1. Use -, + to move Digital input ICON.
2. Press SELECT button to select DVI display.

Analog Input

- + → SELECT

1. Use -, + to move Analog input ICON.
2. Press SELECT button to select Analog display.

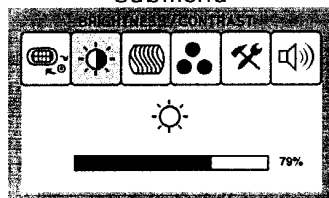
Brightness & Contrast



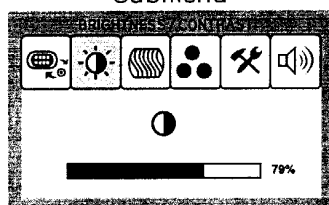
MENU → - + → SELECT

1. Press the MENU button to access main menu.
2. Use -, + to move Brightness and Contrast ICON.
3. Press SELECT button into the submenu.

◆ Brightness & Contrast Submenu



◆ Brightness & Contrast Submenu



Brightness

- + → SELECT → - +

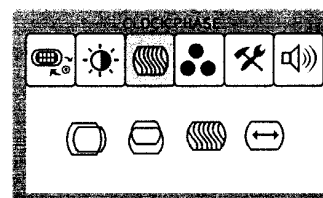
1. Use -, + to move Brightness ICON.
2. Press SELECT button to select it.
3. Use -, + to adjust the brightness.

Contrast

- + → SELECT → - +

1. Use -, + to move Contrast ICON.
2. Press SELECT button to select it.
3. Use -, + to adjust the contrast.

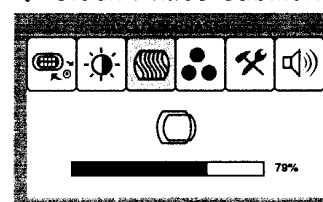
Clock Phase



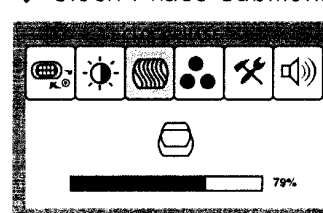
MENU → - + → SELECT

1. Press the MENU button to access main menu.
2. Use -, + to move Clock Phase ICON.
3. Press SELECT button into the submenu.

◆ Clock Phase Submenu



◆ Clock Phase Submenu



Horizontal Position

- + → SELECT → - +

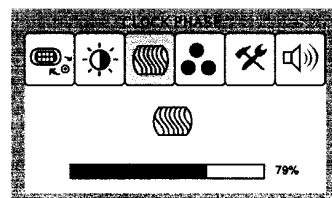
1. Use -, + to move H-Position ICON.
2. Press SELECT button to select it.
3. Use -, + to adjust display left or right.

Vertical Position

- + → SELECT → - +

1. Use -, + to move V-Position ICON.
2. Press SELECT button to select it.
3. Use -, + to adjust display upward or downward.

◆ Clock Phase Submenu

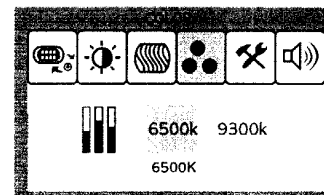


Clock Phase

— + → SELECT → — +

1. Press —, + to move Clock Phase ICON.
2. Use SELECT button to select it.
3. Use —, + to correct fine trembling or Video noise.

◆ Color Submenu

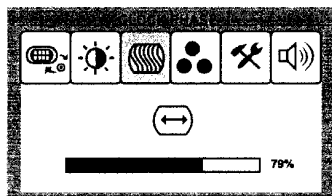


Preset Color

— + → MENU

1. Use —, + to select the 6500K, and 9300K.
2. Press the Menu button to return previous state.

◆ Clock Phase Submenu

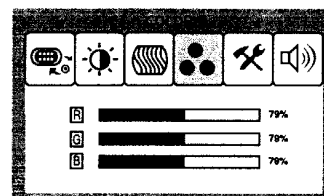


Clock

— + → SELECT → — +

1. Use —, + to move Clock ICON.
2. Press SELECT button to select it.
3. Press — or + to remove vertical noise.
(Adjusting clock phase is required after the adjustment of clock.)

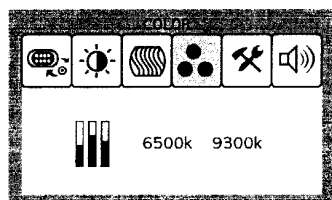
◆ Color Submenu



User Color

— + → SELECT → — + → MENU

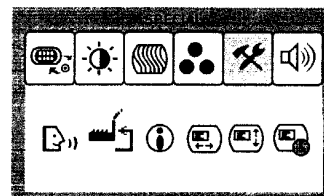
1. Use —, + to move User color ICON.
2. Press SELECT button to select it.
3. Use —, + to Shift the Color what you want.
4. Use select button to select it.
5. Use —, + to increase or decrease each color.
6. Press the menu button to return previous state.



Color

MENU → — + → SELECT

1. Press MENU button to access main menu.
2. Use —, + to move Color ICON.
3. Press SELECT button into the submenu.

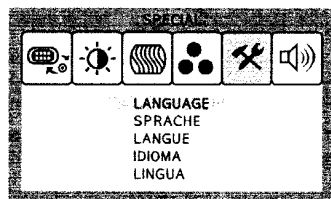


Special

MENU → — + → SELECT

1. Press MENU button to access main menu.
2. Use —, + to move Special ICON.
3. Press SELECT button into the submenu.

◆ Special Submenu

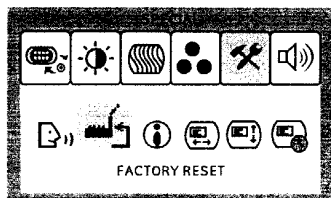


Language

MENU → - + → SELECT → - +

1. Use -, + to move Language ICON.
2. Press SELECT button to select it.
3. Use -, + to select language.

◆ Special Submenu

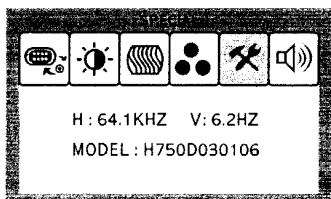


Factory Reset

- + → SELECT

1. Use -, + to move the Factory Reset ICON.
2. Press SELECT button to return to default setting.

◆ Special Submenu



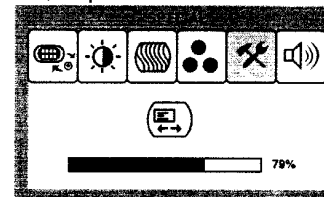
Information

MENU → - + → SELECT

1. Use -, + to move the Information ICON.
2. Press SELECT button to select it.

※ According to the characteristic of video card, display information can be incorrect

◆ Special Submenu

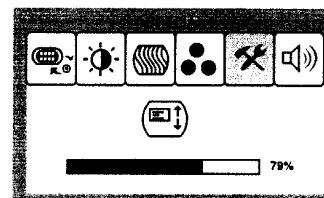


OSD H-Position

- + → SELECT → - +

1. Use -, + to move OSD H-Position ICON.
2. Press SELECT button to select it.
3. Use -, + to adjust OSD left or right.

◆ Special Submenu

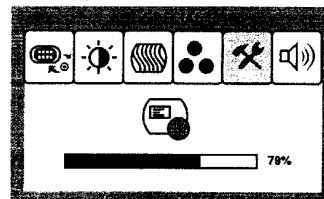


OSD V-Position

- + → SELECT → - +

1. Use -, + to move OSD V-Position ICON.
2. Press SELECT button to select it.
3. Use -, + to adjust OSD upward or downward.

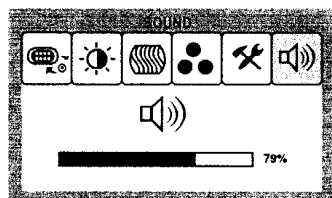
◆ Special Submenu



OSD Time

- + → SELECT → - +

1. Use -, + to move OSD Time ICON.
2. Press SELECT button to select it.
3. Use -, + to adjust OSD display time.



Sound (Option)

MENU → - + → SELECT or VOL BUTTON

1. Use - , + to move Sound ICON.
2. Press SELECT button to select it.
3. Use - , + to control volume.
4. Press MENU button to return previous state.

HOT KEY

ANALOG & DVI

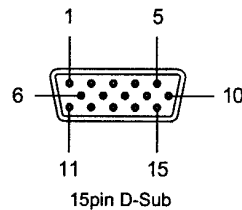
1. When change DVI display into Analog display, select source button located in the left. Analog display will be showed after Analog input message.
2. When change Analog display into DVI display, select source button located in the left. DVI display will be showed after DVI input message.
3. No signal input message will be displayed when video card output is not mated with monitor source.

Standard Signal Table

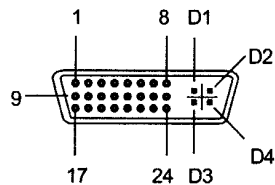
Resolution	Horizontal Frequency (KHz)	Vertical Frequency (Hz)	Clock Frequency (MHz)
VGA (640 X 480)	31.469	59.940	25.175
SVGA (800 X 600)	37.900	60.320	40.000
XGA (1024 X 768)	48.363	60.004	65.000
SXGA (1280 X 1024)	63.981	60.020	108.000
MAC (640 X 480)	35.000	66.667	30.240
MAC (1152 X 870)	68.681	75.062	100.000

Pin assignment table D-Sub Mini 15pin connector

Pin No.	Assignment	Pin No.	Assignment
1	Red Video	9	V.Sync
2	Green Video	10	Ground
3	Blue Video	11	Ground
4	N.C	12	SDA
5	Red Video	13	P.Sync
6	Red Video Ground	14	V.Sync
7	Green Video Ground	15	SD
8	Blue Video Ground		



Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment	Pin No.	Assignment
1	TX2+	9	TX0+	17	TX1+	25	NC
2	TX2+	10	TX1+	18	TX0+	26	NC
3	TX2+	11	TX0+	19	TX1+	27	NC
4	NC	12	NC	20	NC	28	NC
5	NC	13	NC	21	NC	29	NC
6	(D_DSCL)	14	DVI ground	22	Ground		
7	(D_DSCL)	15	Ground	23	Ground		
8	NC	16	5V input	24	TXC-		



Specification

Model	B19AF	
LCD Panel	Type	Amorphous active matrix super TFT LCD
	Screen Size	43.2cm (Diagonal)
	Maximum Resolution	1280 X 1024 @ 75 Hz
	Pixel Range	0.264 mm X 0.264 mm
	Display Colors	16.7M Color
	Contrast Ratio	350 : 1
	Viewing Angle	70° / 70° / 60° / 60° (Left / Right / Up / Down)
	Response Time	25 msec
	Luminance	250 cd/m ²
Synchro nization	Horizontal Frequency	79.9kHz (Max.)
	Vertical Frequency	75 Hz (Max.)
Video Input	Video Signal	Analog RGB (0.714 Vpp) 75 ohm
	Synchronous Signal Mode	H, V Separate TTL Sync,
Power Consumption	Maximum	48W
	Power Saving Mode	Under 1 W(Analog)/Under 3.5 W(DVI)
Control key	Front Part	SOURCE , MENU / EXIT, AUTO/SELECT, POWER, -/*, +/e, VOL/MUTE
Audio Output	Normal	1W/Ch
	Max	1.5W/Ch
Power Supply		Input : 100-240Vac (50/60 Hz), 0.6A
Wall Mount		VESA Standard
Safety Standard & EMI	Safety Standard	UL, CE, TUV, CB
	EMI	FCC, RRL
	Low Radiation	MPR-II
Dimension	Size and Weight	380 × 176 × 368 / 5.8kg

Troubleshooting

Power LED is dark.
No picture.



- Check the power connection.
(Refer to page 4)

OSD, "check signal."
is displayed on the
screen.



- Check the computer power is on.

Message, "check cable."
is displayed on the
screen.



- Check the signal cable between monitor
and computer. (Refer to page 4)

Screen looks to be run
down.



- Perform Auto_config.

Screen is not clear.



- Remove attaches to the signal line
(Video extension cable and others)
and switch on.
- Perform Auto-config.
- Adjust clock and PHASE.

Display is unstable and
trembling.



- Check the resolution and frequency of
computer and video card, and set up
again refer to the current monitor
mode and standard signal mode table.

Color is irregular.



- Adjust COLOR at User Mode in OSD Color
Menu.

Double images or
'ghosts'.



- Check the resolution and frequency of
computer and video card, and set up
again in reference to the current monitor
mode and standard signal mode table.

Picture is dark.



- Adjust COLOR at User Mode in OSD Color
Menu.

Picture is biased or cut
or too wide.



- Perform Auto-Config.

Power LED turns into
Green blinking.



- Monitor is in DPMS mode.

NO SOUND



- Check the voice signal connection code or
adjust volume