After opening the box, please check to ensure that the following accessories are provided with the monitor
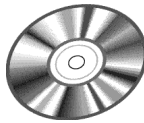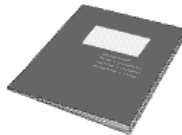
(Option) Pivot Software

Power Cord

Users Guide

D- Sub Signal Cable

The actual monitor and accessories may appear di**f**ferently from those shown on the above figure.

Before Use

How do I Use the Monitor ?

Information for Your Convenience

Please keep the user's guide in a place where product users can refer to it.

Table of Contents

15.1″ LCD Panel Adopted

-Adopted the 15.1″ LCD (Liquid Crystal Display) Panel which allows you efficient
 use in a small space due to the slim design.

A Dynamic Convenient Design

-Uses a specially manufactured hinge (ATEC System patent) to adjust the screen
 freely up and down, left to right, and back and forth. This function is provided
 with thoughtful consideration to the user′s convenience.

Plug & Play Function

-The Plug & Play function is available, freeing the user from having to reboot
 or set up the system during operation.
-The user does not have to adjust the monitor to computer connection, as
 optimal screen settings are automatically provided through the DDC (Display
 Data Channel) system.

Power Consumption Economy Function

- The VESA DPMS (Display Power Management Signaling) function is
 available to reduce power consumption by automatically switching the computer
 into the power saving mode if the system doesn′t operate for a fixed period of time.

AUDIO Function

- A speaker is embedded so that the user can hear sound without separate
 speakers.

EMI/EMS

- This equipment has been registered through compatability tests with
 electromagnetic waves, and can therefore be used everywhere including
 residential districts.

OPTION

- Software pivoting to the vertical size of A4 paper is available, making Word
 work easier.
- USB 4Port can be embedded to use the USB without an external Hub.

Matters that demand special attention are divided into 'Warning' and 'Caution', and are detailed a follows

Warning
In case of the possibility that a serious injury or death may occur during a violation of the instructions.

Caution
In case of the possibility that a slight injury or product damage may occur during a violation of the instructions.

FCC INFORMATION TO THE USER
Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.
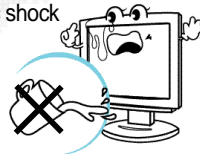
⚠ Warning

No one but trained repair engineers may disassemble the monitor. Please contact the appropriate sales agency or customer counsel window for check-ups, adjustment and repair.

A fire or electric shock accident may be caused.

Please note not to allow liquids such as chemicals, water etc to contact the monitor.

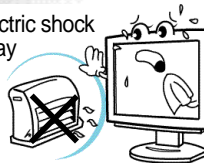A fire or electric shock accident may be caused.

Don't place or drop metals (such as coins, hair pins, or ironware) or flammable items (such as paper, or matches) onto the monitor.

A fire or electric shock accident may be caused.

Don't place the monitor near to heat sources (such as a fireplace), and keep out of the sun.

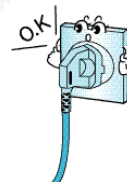A fire or electric shock accident may be caused.

2

⚠ Warning

Please be careful to keep the panel from being scratched or damaged when you transport the monitor.

The panel may be damaged, causing a failure.
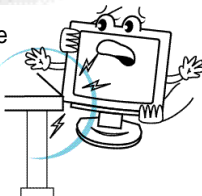
Please insert the two pins of the plug completely so that the power supply unit can be connected tightly.

Unsafe power connections may cause a fire.

Don't set up the equipment in a humid environment (such as bathroom, rainy or windy area, etc).

Accidents of electric shock, fire or failure may occur.
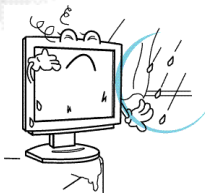
Please stop using in case of smoke or abnormal odors. Immediately switch off the power, and pull out the power cord from the wall. Contact the service center.

Continuity of use in such a state may cause a fire or electric shock.

Don't sprinkle water directly on any part of the monitor body.

An electric shock or fire accident may occur.
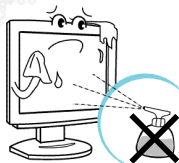
Please keep the power cord from proximity to a heating instrument.

The covering material of the cord may melt, causing a fire or electric shock.

⚠ **Warning**

Never touch the power plug with wet hands.

An electric shock accident may occur.
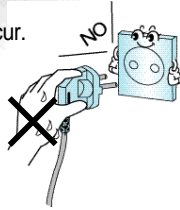
Don′t use a power cord or plug that is damaged or has a loose connection.

An electric shock or ignition may be caused.
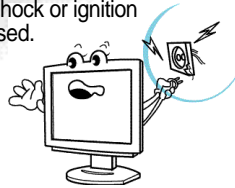
Please set up the monitor at a proper distance (over 10 cm) away from the wall for sufficient ventilation.

A fire may be caused due to an increase in internal temperature.

10cm
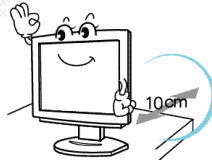
Please grasp the power plug at the base to remove it from the wall, and pull firmly but gently.
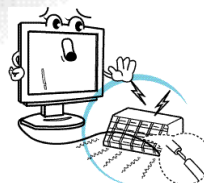
If you yank at the cord the wire may be broken, causing ignition or heat generation.

Please note that air-flow holes must not be blocked by a table cloth or curtain.

A fire may becaused due to an increase in internal temperature.

Don′t set up the equipment on an unsupported shelf or angled surface. nor on an area subject to serious vibration.

Fall or displacement of the equipment may cause an injury.

⚠ Warning

You must switch the power off and pull the power cord out before moving the monitor. You should also check as to whether external connection cords - such as the connection cords between component parts - are all pulled out before the movement.

A damaged cord may cause a fire or electric shock.

Pull the power cord out when the monitor is not used for a long time, or while you are away.

A dust covering may cause an electric shock, electric leakage, or fire by heat generation, ignition, and insulation degradation.
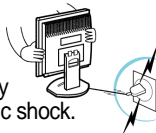
Don′t set the monitor in a narrow place with poor ventilation such as a bookcase

A fire may be caused due to an increase in internal temperature.

When you clean the panel surface, pull the power cord out first, and wipe the surface with a clean, dry and soft cloth. Don′t use a damp cloth.

Such action may be the main cause of an electric shock accident and failure.

⚠ Caution

Don′t put pressure upon the panel or score the surface with your hands or sharp items (nails, pencils, pens, etc).

Damage or failure of the panel may be caused.

When you move the monitor, take hold of it with both hands setting the panel forward.

If you drop the monitor, contact the service center to check it for a susceptibility to fire or electric shock.
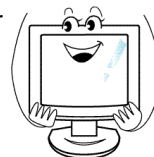
How do I connect the computer cables?

How do I connect with the IBM computer ?

1. Ensure that the computer, monitor and peripheral equipment power is turned off.

2. Connect signal cables with the D-sub signal input connector and the monitor signal input connector respectively.

3. Connect one DC power jack of DC power supply unit to the 12V terminal, and the other to the power cord. Next connect the power cord to the concent.

4. Turn the monitor power on after switching the computer power on..

5. If the message" No Signal" appears, check connections of the signal input cable or connector.

6. Switch the monitor and computer power off at the end of use.

D-Sub Signal Cable

Power Cord

DC Power Supply Unit

How do I use the monitor

6

The Name and Function of Each Individual Part

Front View

Power Pilot Lamp

Power Button

UP/DOWN Button

SELECT Button

MENU Button
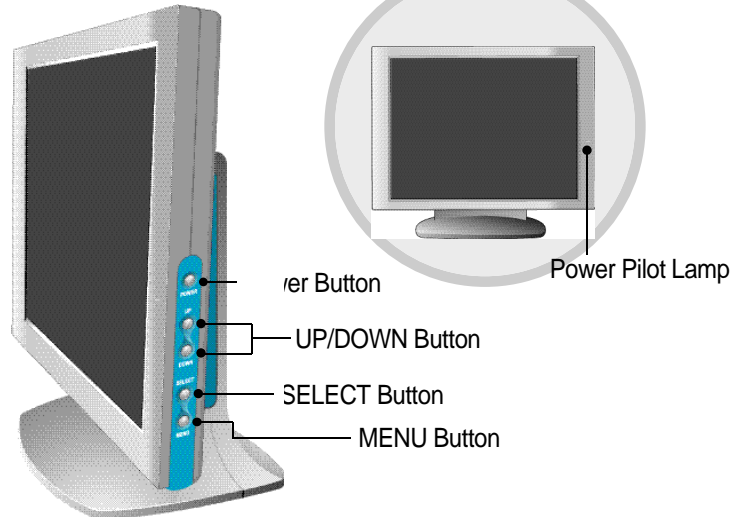
Back View

The Name and Function of Each Individual Part

The Name and Function of Each Individual Part in the Screen Adjusting Block
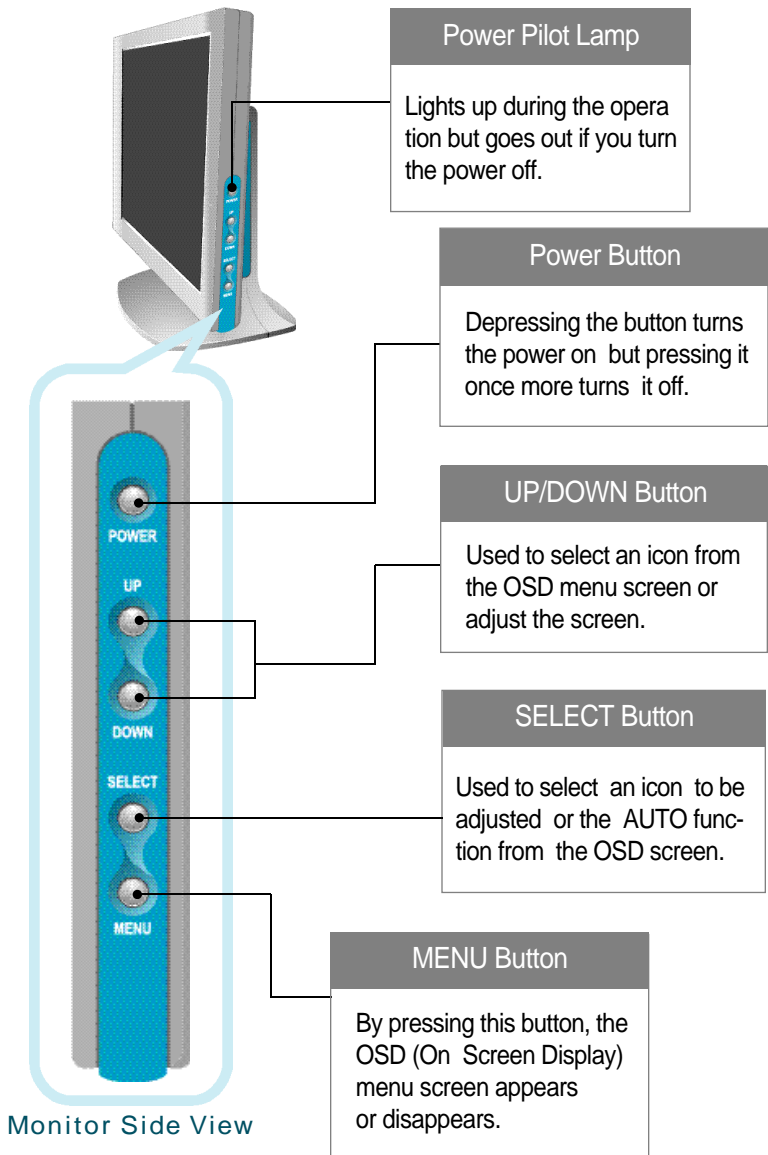
Power Pilot Lamp

Lights up during the operation but goes out if you turn the power off.

Power Button

Depressing the button turns the power on but pressing it once more turns it off.

UP/DOWN Button

Used to select an icon from the OSD menu screen or adjust the screen.

SELECT Button

Used to select an icon to be adjusted or the AUTO function from the OSD screen.

POWER

UP

DOWN

SELECT

MENU

MENU Button

By pressing this button, the OSD (On Screen Display) menu screen appears or disappears.

Monitor Side View

How do I use the monitor

8
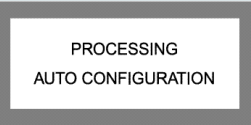
How to Select and Adjust the OSD (On Screen Display) Screen

Use the OSD adjustable buttons on the front of the monitor to set/adjust to the best screen and operating environment.

If you have to adjust the screen,
please adhere to the following procedure.
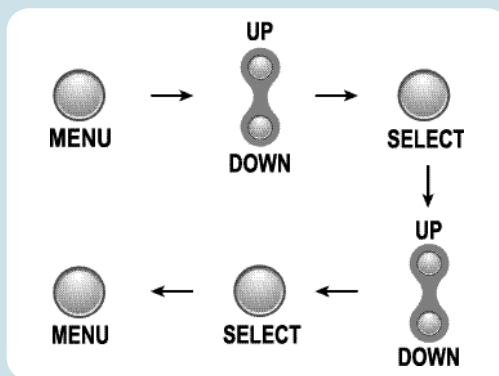
Press the MENU button which displays the OSD menu screen.

Select the icon you desire by pressing the UP/ DOWN button.

Then press the SELECT button.

Adjust the screen with the UP/DOWN buttons.

Save the adjustment by pressing the SELECT button.

The OSD menu screen disappears after pressing the MENU button.

How to Select and Adjust the OSD (On Screen Display)

Descriptions of OSD adjustment and functions

To adjust the brightness and contrast of the screen?

```
☼  BRIGHTNESS
[||||||||||||||||||||||||||||||||||]  100
EXIT : MAIN        - / + : ADJUST
```

Brightness
Adjusts the brightness of the screen.
Pressing the ▽ button darkens the background screen.
Pressing the △ button brightens the background screen.

```
☼  CONTRAST
[||||||||||||||||||||||||||||||||||]  100
EXIT : MAIN        - / + : ADJUST
```

Contrast
Adjusts the contrast of the screen.
Pressing the ▽ button darkens a screen picture.
Pressing the △ button brightens a screen picture.

To select/adjust the color of the screen? (9300K, 6500K, user definition etc)

RGB

```
        COLOR
9300K
6500K
RED     ||||||||||||||||----------  50
GREEN   ||||||||||||||||----------  50
BLUE    ||||||||||||||||----------  50
EXIT
EXIT : ENTER      - / + : SELECT
```

Factory-specified
Select a screen color as desired by selecting one of the two temperature options.
- 9300K: Selects the bluish screen.
- 6500K: Selects the reddish screen.

Red Green Blue
Red, Green, or Blue is optionally variable to select/adjust the color concentration of the background screen.
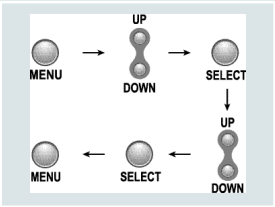
11

How to Select and Adjust the OSD (On Screen Display)

Descriptions of OSD Adjustment and Functions
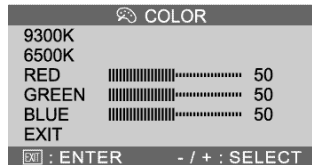
To adjust the up/down/left/right position of the screen?

VERTICAL POSITION
|||||||||||||||||||||||||||||||||··· 91
EXIT : MAIN   - / + : ADJUST

Moves the screen up and down.

HORIZONTAL POSITION
||································· 7
EXIT : MAIN   - / + : ADJUST
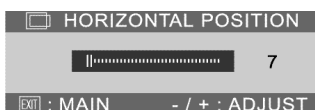
Moves the screen left and right.

To adjust the horizontal size of the screen or focus the phase?

CLOCK
||||||||||||||||··············· 50
EXIT : MAIN   - / + : ADJUST

Horizontal Size (CLOCK)

Adjusts the horizontal size of the screen by increasing / decreasing the number of pixels. Please adjust the display to the Full Screen size.

PHASE
||································· 1
EXIT : MAIN   - / + : ADJUST
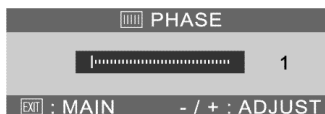
Focus (PHASE)

Brings the phase into focus. This function is used if noise or overlapped letters trouble normal screen functions. You are advised to use the function after adjusting the Horizontal Size (CLOCK).

To get information on the current mode?

INFORMATION
PRESET MODE
48.4kHz
60 Hz
EXIT : MAIN   - / + : ADJUST
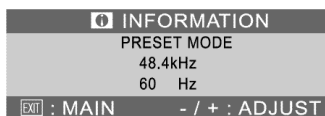
INFORMATION   Informs you of the horizontal / vertical frequencies in the current mode.
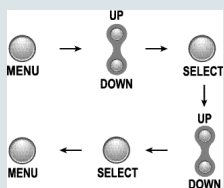
Troubleshooting. Please read before notifying our repair officers of a failure

Please check the below particulars before you contact the service center to notify an abnormality of the monitor.

Check these points	Take these respective actions	This symptom can be discovered
Is the monitor power cord inserted ?	Please connect the power cord correctly to the concent.	The screen doesn't show anything.
Is the power turned off ?	Please press the power button.	
Is the power turned on with the power pilot lamp lit green?	Please adjust the brightness (☼) and contrast (◑)again.	
Is the power turned on with the power pilot lamp lit orange ?	The monitor is in the power saving mode. Please therefore move the mouse or press any key on the keyboard.	
Is the message "Out Of Range" shown ?	The frequency of PC (Video Card) is out of range (i.e., horizontal: 31-60KHz, vertical: 56-75KHz). Please therefore see [Product Specification] in this guide to reset it in conformity with monitor specifications.	

```
INPUT SIGNAL
OUT OF RANGE
POWER MANAGEMENT 20SEC
```

Is the message "No Signal" shown?	The signal cable isn't connected between PC and monitor, or is missing. Please check and connect it properly.	

```
SELF DIAGNOSTICS
NO SIGNAL
CHECK SIGNAL CABLE
```

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Troubleshooting. Please read before notifying our repair officers of a failure

Check these points	Take these actions
● Has a discoloration (into 16 colors) of the screen occurred?	● Set the number of colors to more than 256 colors. On the Windows 95/98, perform the following process [Control Panel] -> [Display] -> [Setting] -> [Color Table] -> [256 Colors] -> [OK]
● Is the screen color unstable or does it seem to be a single color?	● Check the connection of the signal cable, and correct it if anyabnormality is found.If you selected Composite″ for the monitor input signal during the PC operation, the screen may be seem abnormal. In such a case, you are recommended to select Separate″ which is the default option.
● Do you see a spot on the screen?	● You may see a few spots (in red, green, white, and black) on the screen during the operation. Occurrence of such a phenomenon is not a failure but a characteristic of the LCD panel, and therefore has no relation to the performance of the monitor.

Troubleshooting. Please read before notifying our repair officers of a failure
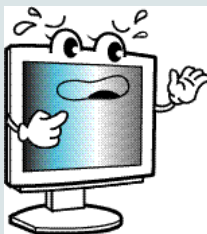
Check these points

Take these actions

● Is the positional adjustment made correctly?

● Selecting the SELECT button automatically adjusts the screen in the best state applicable to the current mode.
If you are not satisfied with the auto adjustment, you can directly adjust the H Position (Horizontal Position), V Position (Vertical Position), and Clock (Horizontal Size) of the OSD menus.

The screen is under a bias toward one side, or is not centrally positioned.

● Is the phase adjustment made properly?

● Selecting the SELECT button automatically adjusts the screen in to the optimal state applicable to the current mode.
If you are not satisfied with the auto adjustment, you may manually adjust the Phase (Focus) of the OSD menus.
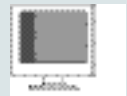
A faint letter is shown, or the phase is out of focus. Noise is also generated horizontally.

● Is the screen set in the best state?

● While you are using this product in the mode of 1024X768 and 60Hz, the best condition of the screen is available. In the mode of VGA(640x480) or SVGA(800x600), the outline of a letter may be seen dimly or unevenly.

Information for Your Convenience

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Product Specification

The details of product specification can be changed without notice to improve the product.

LCD Panel	panel type screen size pixel size contrast color resolution brightness	a-Si active matrix TFT-LCD 15.1″ (38cm) diagonal 0.3mm x 0.3mm 300:1(Typical) 8-bit(16,777,216 Colors) XGA 1024 x 768 250cd/m2(Typical)
Picture Signal	horizontal frequency vertical frequency view angle input picture signal	31.5 - 60kHz 56 - 75Hz U/D:± 60″, R/L: ± 75″ Analog RGB
AUDIO	output	1W x 2 on the stand cover
Input Connector	input terminal user′s control	15Pin D-Sub Auto Configuration, Brightness, Contrast, H-Position, V-Position, Color RGB, Clock Adjustment, Phase Adjustment
Dimension and Weight	body size(WxDxH) weight	387 x 215 x 355mm 7.2kg(Unit), 8.3kg(Packed)
Power	power managing system power consumption input power	VESA DPMS standard <30 Watt AC 110-220V, 50-60Hz
Options	USB 4Port, Pivot Software	

Product Specification

Factory-specified Mode

	Factory-specified Mode		Horizontal Frequency(kHz)	Vertical Frequency(Hz)
1	VGA	640 x 350	31.47	70
2	MAC	640 x 480	35.00	67
3	VESA	640 x 480	31.47	60
4	VESA	640 x 480	37.86	72
5	VESA	640 x 480	37.50	75
6	VGA	720 x 400	31.47	70
7	VESA	800 x 600	35.16	56
8	VESA	800 x 600	37.88	60
9	VESA	800 x 600	48.68	72
10	VESA	800 x 600	46.88	75
11	MAC	832 x 624	49.73	75
12	VESA	1024 x 768	48.36	60
13	VESA	1024 x 768	56.48	70
14	VESA	1024 x 768	60.02	75