CONTENTS

This Monitor was
Manufactured ISO9001
Certified Factory

SAFETY INSTRUCTION

1. Read all of instructions.

2. Save these instructions for later use.

3. Follow all warnings and instructions marked on the product.

4. Unplug this product from the wall outlet before cleaning.
Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

5. Do not use this product near water.

6. Do not place this product on an unstable cart, stand or table.
   The product may fall, causing serious damage to the product.

7. Slots and openings in the cabinet and the back are provided for
   ventilation : to ensure reliable operation of the product, these openings
   must not be blocked by placing the product on a bed, sofa, rug or
   other similar surface
   This product should never be placed near or over a heat resister.
   This product should not be placed in a built-in installation unless proper ventillation
   Is provided.

8. This product should be operated from the type of power source indicated on the
   Marking label. If you are not sure of the type of power available, consult your dealer
   or local power company.

9. This product is equipped with a 3 wire grounding type plug having a third(grounding)
   pin. This is a safety feature. If you are unable to insert the plug into the outlet,
   contact your electrician to replace your obsolete outlet. Do not defeat the purpose of the
   grounding-type plug.

10. Do not allow anything to rest on the power cord.
    Do not locate this product where persons will walk on the cord.

11. If an extension cord is used with this product, make sure that the total of the
    ampere ratings on the products plugged into the extension cord do not exceed the
    extension cord ampere rating. Also, make sure that the total of all products
    plugged into the wall outlet does not exceed 10 amperes.

12. Never push objects of any kind into this product through cabinet slots as they may
    touch dangerous voltage points or short out parts that could result in a risk of fire
    or electric shock. Never spill any kind of liquid on the product.

13. Do not attempt to service this product yourself, as opening or removing covers
    may expose you to dangerous voltage points or other risks.
    Refer all servicing to service personnel.

SAFETY INSTRUCTION

14. Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions.
   A. When the power cord or plug is damaged or frayed.
   B. If liquid has been spilled into the product.
   C. If the product has been exposed to rain or water.
   D. If the product does not operate normally when the operating instructions are followed. Adjust only those controls that are covered by the operating instructions since importer adjustmentof other controls may result in damage and will often require extensive work by a qualified technician to restore normal operation.
   E. If the product has been dropped or the cabinet has been damaged.
   F. If the product exhibits a distinct change in performance, indicating a need for service.

▶ ▶ **CAUTION**
The power supply cord is used as the main disconnect device, ensure that the Socket-outlet is located/installed near the equipment and easily accessible.

CAUTION TO SERVICE PERSONNEL

POWER SUPPLY CORD IS USED AS MAIN POWER DISCONNECT DEVICE IN THIS PRODUCT. UNPLUG THIS PRODUCT FROM THE WALL OUTLET BEFORE REMOVING THE BACK COVER AND SERVICING

CAUTIONS

▶ **NEVER REMOVE THE BACK COVER**
Removal of the back cover should be carried out only by qualified personnel.

▶ **DO NOT USE IN HOSTILE ENVIRONMENTS**
To prevent shock or fire hazard, do not expose the unit to rain or moisture. This unit is designed to be used in the office or home. Do not subject the unit to Vibrations, dust of corrosive gases.

▶ **KEEP IN A WELL VENTILATED PLACE**
Ventilation holes are provided on the cabinet to prevent the temperature from Rising.
Do not cover the unit or place anything on the top of unit.

▶ **AVOID HEAT**
Avoid placing the unit in direct sunshine or near a heating appliance.

▶ **TO ELIMINATE EYE FATIGUE**
Do not use the unit against a bright back ground and where sunlight or other light Sources will shine directly on the monitor.

▶ **BE CAREFUL OF HEAVY OBJECT**
Neither the monitor itself nor any other heavy object should rest on the power cord. Damage to a power cord can cause fire or electrical shock.

FCC RF INTERFERENCE STATEMENT

‣ ‣ **NOTE :**

This equipment has tested and found to comply with the limits for a Class B digital device, pursuant to Part 5 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 iastalled 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 on eor more of the following measures.

- Reorient or relocate the receiving antenna.

- Increase the seperation 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.

- Only shielded interface cable should be used.

Finally, any changes or modifications to the equipment by user not expressly approved by the guarantee or manufacturer could void the users authority to operate such equipment.
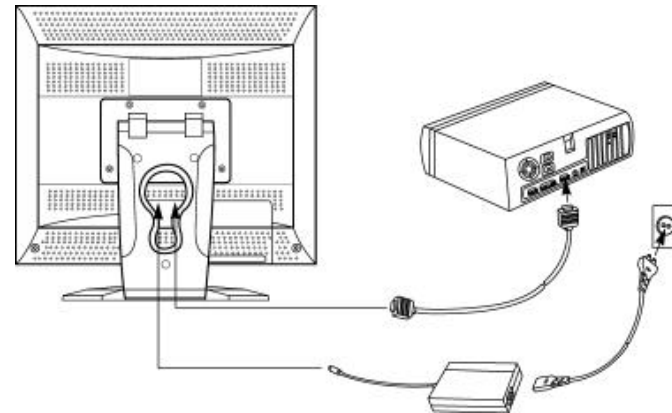
‣ **DOC COMPLIANCE NOTICE**
The digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of Communications.

CONNECTING WITH EXTERNAL EQUIPMENT

‣ ‣ **CAUTION**

Be sure to turn off the power of your computer before connecting the monitor.

1. CONNECT THE VIDEO SIGNAL CABLE
  A. Connect one end of the signal cable to the back panel of the monitor and connect the other end to the graphic card on back of the computer.
 B. Secure the connection with the screws on the plug.

2. CONNECT THE POWER CORD
 A. Connect the plug of the AC/DC adaptor to the monitor.
 B. Connect the female end of the power cord to the power input receptacle on the AC/DC adaptor.
  Then, plug the male end of the power cord to an AC outlet or computer.

3. TURN THIS MONITOR ON AND START YOUR SYSTEM

RESOLUTION

This monitor is a digitally-controlled multi-frequency monitor.
It operates at horizontal frequencies of 31 to 70KHz and vertical frequencies
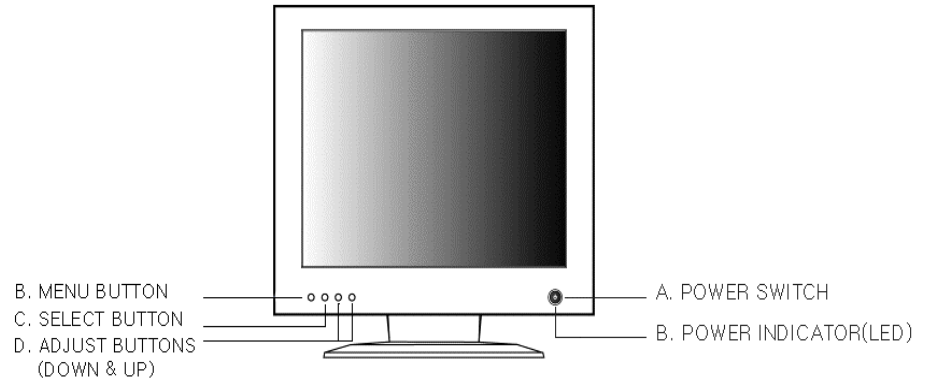of 60 to 85Hz.

Because of its micro processor-based designs it offers auto-synchronization
and auto-sizing capabilities. This monitor offers 10 programmed settings
as listed in the table below.
And designs its best quality at 1280×1024, 64KHz@60Hz.

These 10 preset modes cover most of the common video modes supported by
popular graphic adaptors. However, each adaptors implementation of these
video modes may vary slightly in timings. You may find it necessary to make
minor adjustments to the display settings (i.e., horizontal position) using
the On Screen Display. For further information and instructions on using
the On Screen Display, please refer to "Controls and Functions".

PRESET MODES	RESOLUTION		FREQUENCY	
	H(Pixels)	V(Lines)	H(KHz)	V(Hz)
VGA	640	350	31.5	70
	720	400	31.5	70
	640	480	31.5	60
	640	480	43.2	85
MAC	640	480	35.0	67
VESA	800	600	37.8	60
	800	600	53.6	85
	1024	768	48.3	60
	1024	768	68.6	85
	1280	1024	63.9	60

CONTROLS AND FUNCTIONS

B. MENU BUTTON
C. SELECT BUTTON
D. ADJUST BUTTONS
   (DOWN & UP)

A. POWER SWITCH
B. POWER INDICATOR(LED)

A. POWER ON/OFF( )
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 when the power
is turned ON.
The power is turned off by pressing the power switch again and
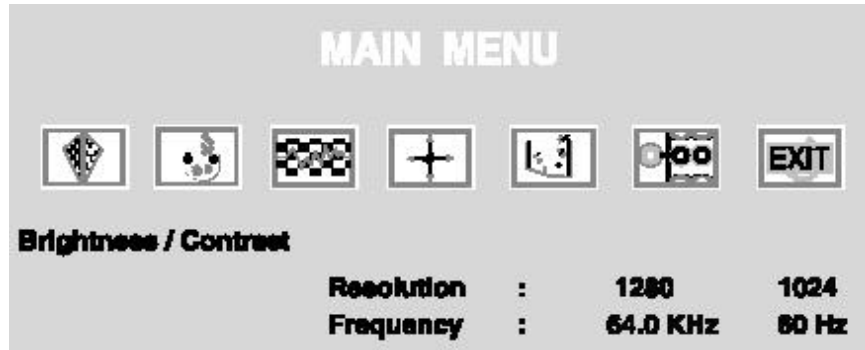the power LED goes out.

B. MENU (MENU)
Activate sand exits the On Screen Display. This button can also be
used to move previous menu or status.

MAIN MENU : BRIGHTNESS / CONTRAST, COLOR TEMPERATURE,
            FREQUENCY&PHASE, POSITION, LANGUAGE, UTILITIES, EXIT

CONTROLS AND FUNCTIONS

MAIN MENU activates when you press the Menu button.

MAIN MENU

Brightness / Contrast

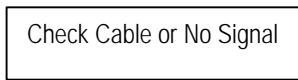| Resolution | : | 1280 | 1024 |
| Frequency | : | 64.0 KHz | 60 Hz |

C. SELECT (SELECT)
The select button allows user to activate the desired adjustment
with blinking icon.

D. ADJUST (DOWN, UP)
The adjust button allows user to choose the icons(controls) in the menu.
Pressing the adjust button Down or Up will step through all available
adjustment icons(controls).
In addition this adjust button can be used to adjust the icons(controls)
that is selected and activated via the select button when the adjust button is
pressed, the window containing an adjustment bar will increase or decrease.
After completing all the desired adjustments, the On Screen Display
will disappear with pressing the menu button.

1. SELF-TEST DISPLAY
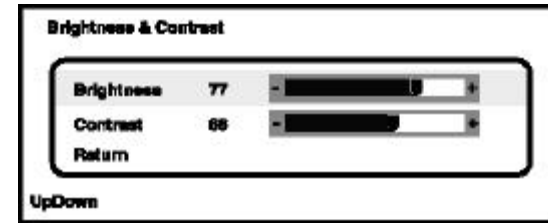When there is no connection, the On Screen Display will show for 3 seconds.

Check Cable or No Signal
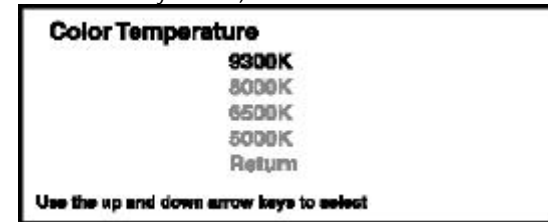
CONTROLS AND FUNCTIONS

2. MAIN MENU DESCRIPTION

BRIGHTNESS / CONTRAST
BRIGHTNESS : Increase(+) or decrease(-) the intensity(illumination)
of the image.
CONTRAST : Increase(+) or decrease(-) the strength(lightness or
dimness) of the image.

Brightness & Contrast

Brightness	77	- ▬▬▬ +
Contrast	66	- ▬▬▬ +
Return		

UpDown

COLOR TEMPERATURE
color temperature to 9300K, 8000K, 6500K, 5000K
(Notes : 9300K is factory default).

Color Temperature

9300K
8000K
6500K
5000K
Return

Use the up and down arrow keys to select

FREQUENCY, PHASE
FREQUENCY : Adjusts the horizontal noise of screen image.
PHASE : Adjusts the vertical noise of screen image.

Frequency & Phase

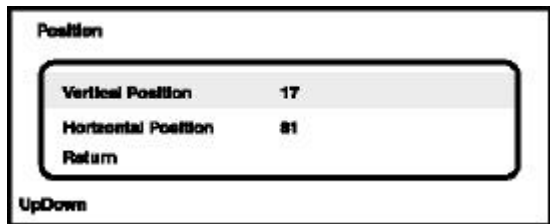| Frequency | 60 | - ▬▬▬ + |
| Phase | 25 | - ▬▬ + |
| Return | | |

UpDown

CONTROLS AND FUNCTIONS

TION
CAL : Moves images vertically on screen up( ) or down( ).
HORIZONTAL : Moves images horizontally on screen right(+) left(-).

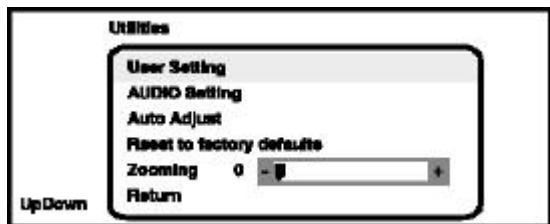| Position	
Vertical Position	17
Horizontal Position	81
Return	
UpDown	

GUAGE
a language among ENGLISH, KOREAN, GERMAN, FRENCH, SPANISH, ITALIAN.

Language	
	English
	Korean
	German
	French
	Spanish
	Italian
	Return

TIES

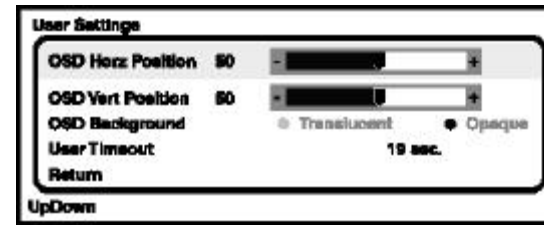| Utilities	
User Setting	
AUDIO Setting	
Auto Adjust	
Reset to factory defaults	
Zooming	0
UpDown	Return

CONTROLS AND FUNCTIONS

USER Settings
OSD Horz Position : Moves the OSD position to right(+) or left(-).
OSD vert Position : Moves the OSD position to up( ) or down( ).
OSD Background : Selects the OSD background.
User Timeout : Selects the OSD display timing.

User Settings		
OSD Horz Position	50	- █ +
OSD Vert Position	50	- █ +
OSD Background		○ Translucent ● Opaque
User Timeout		19 sec.
Return		
UpDown		

Auto Adjust
Automatically adjusts the contrast, the image position, and the clock-phase settings.

Reset to factory defaults
Press "Select"key to reset all setting to the factory default values.
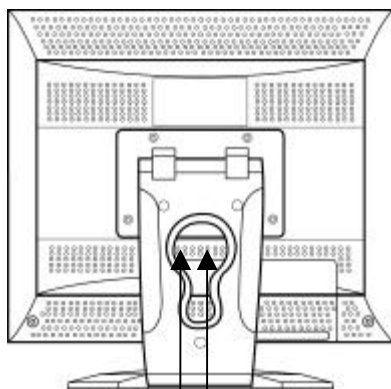
Zooming
Increase(+) or decrease(-) the screen size.

REAR VIEW

E. DC JACK
AC/DC adaptor connection.

F. D-SUB CONNECTORC JACK
Connect to the video signal cable.

E. DC JACK   F. D-SUB CONNECTOR
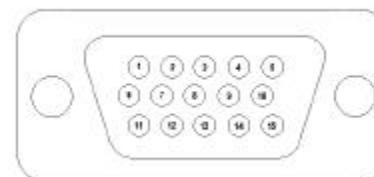
AC/DC ADAPTOR

1 : GROUND
2 : DC+12V out

ACCESSORY
1. POWER CORD
2. INSTRUCTION MANUAL
3. AC/DC ADAPTOR
4. VIDEO SIGNAL CABLE

D-SUB CONNECTOR PIN ASSIGNMENTS

PIN ASSIGNMENTS

Pin 1	RED VIDEO	9	
2	GREEN VIDEO	10	GROUND
3	BLUE VIDEO	11	
4		12	SDA(for DDC)
5	GROUND	13	H-SYNC.(or H+V SYNC.)
6	RED GROUND	14	V-SYNC.
7	GREEN GROUND	15	SCL(for DDC
8	BLUE GROUND		

D-SUB

POWER MANAGEMENT

This monitor features a power management system to "power down" upon receipt of the VESA DPMS(The display power management signaling) from a VESA DPMS video card.

The VESA DPMS-compliant video card performs this signaling system through not sending horizontal, vertical, or sync signal.

This monitor enters an appropriate mode through identifying each of the three modes of the signaling system.

POWER CONSUMPTION

MODE	POWER CONSUMPTION
ON	<45W
STANDBY	<5W
SUSPEND	<5W
ACTIVE OFF	<5W

LED INDICATOR

The power management feature of the monitor is comprised of four stages : On(Green), Standby, Suspend, Active odd(Amber blinking) and Not preset mode(Amber).

MODE	LED COLOR	MONITOR OPERATION
ON	GREEN	Normal Operation
STANDBY		
SUSPEND		
ACTIVE OFF		
NOT PRESET MODE OUT OF RANGE	GREEN	Normal operation but the on screen display will show error massage.

SPECIFICATIONS

LCD Type
17.0″ Diagonal AM-TFT(Active –Matrix)
DOT PITCH : 0.264mm
BRIGHTNESS : 200cd/m²(Typical)
CONTRAST RATIO : 350 : 1(Typical)
RESPONSE TIME : 20msec(Typical)

Resolution(H ×V)
1280 ×1024 @ 60Hz

Frequency
HORIZONTAL : 31–70KHz
VERTICAL : 60-85Hz

VIDEO DOT RATE
108MHZ

INPUT SIGNAL
VIDEO(Analog 0.7Vp-p / 75)
SYNC(Separate and Composite TTL Level)

ACTIVE DISPLAY AREA (W ×H)
338mm ×270mm

DIMENSION (W ×D ×H)
494mm ×240mm ×537mm(Carton Box)

WEIGHT
Net Weight : 7.3Kg
Gross Weight : 8.5Kg

POWER SUPPLY
INPUT : AC100-240V, 50/60Hz(auto switching)
OUTPUT : DC12V, 3.5A

127(:
Technical specifications are subject to change without notice.

TROUBLESHOOTING GUIDE

TROUBLE	TROUBLESHOOTING TIP
No image on display screen	1. Check that power cord of the Monitor have been connected securely into wall outlet or grounded extension cable or strip. 2. Power switch should be in the On position and LED is lit. 3. Check that the Brightness and/or the Contrast adjustments of the Display have not been turned down to minimum levels.
"No signal, Check signal Cable" message on screen	1. The signal cable should be completely connected to the video card/computer. 2. The video card should be completely seated in its slot and the computer is switched ON.
Display image is not centered, too small or too large	Select Auto-adjust in the OSD.
Vertical or Horizontal noise is preset in the picture	Adjust Frequency and Phase in the OSD.