

# **46 & 55-INCH WUXGA SUPER NARROW BEZEL TFT-LCD MONITOR**



## **INSTRUCTION MANUAL**

Please read this manual thoroughly before use, and keep it handy for future reference.



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This Monitor was  
Manufactured by ISO 9001  
Certified Factory

# SAFETY INSTRUCTION

## Important Safety Instruction

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 attachment/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.

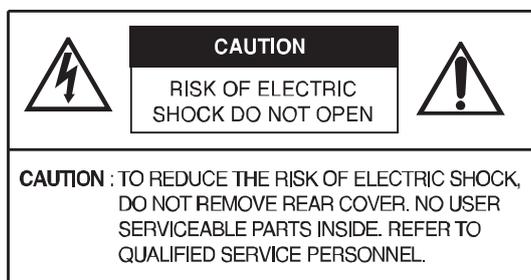


# SAFETY INSTRUCTION

- The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.
- Minimum distances(e.g. 10cm) around the apparatus for sufficient ventilation.

“WARNING – To reduce the risk of fire or electric shock, do not expose the apparatus to rain or moisture.”

“The apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.”



This symbol is intended to alert the user to the presence of uninsulated : dangerous voltage with in the product’s enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This symbol is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

# CAUTIONS

## CAUTION

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

## ATTENTION

*Le cordon d'alimentation est utilisé comme interrupteur général. La prise de courant doit être située ou installée à proximité du matériel et être facile d'accès*

### 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

### EMISSION CHARACTERISTICS TESTED BY SEMKO

THIS PRODUCT HAS BEEN TESTED AND HAS SHOWN COMPLIANCE WITH THE NATIONAL SPECIFICATIONS SUCH AS SWEDISH MPR 1990.10.(MPR II)

#### ► 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 or 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 background 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 been tested and found to comply with the limits for a Class A 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.

- 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.
- Only shielded interface cable should be used.

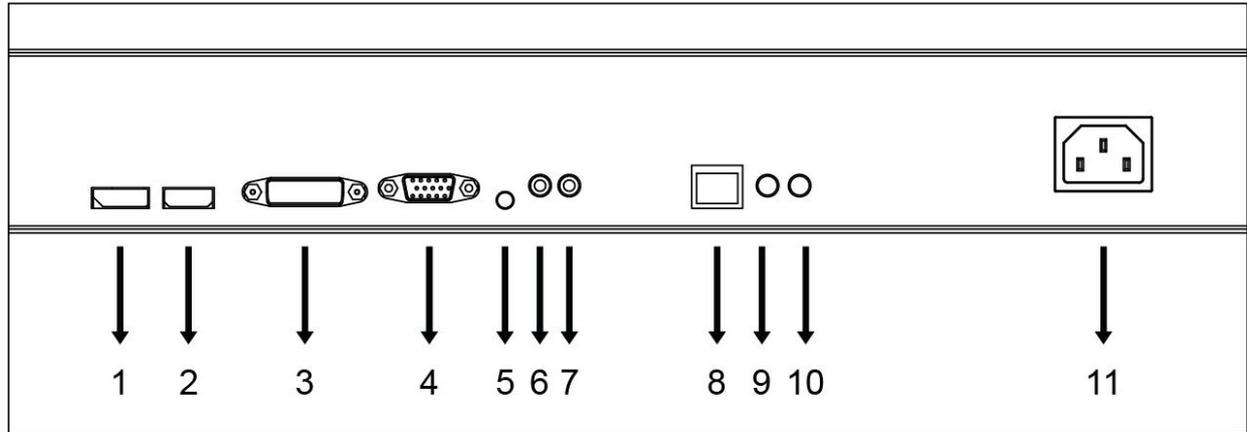
Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

## ► DOC COMPLIANCE NOTICE

This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.

# CONNECTING WITH EXTERNAL EQUIPMENT

## A. BACK PANEL CONTROL



1. DISPLAY PORT(OPTIONAL)
2. HDMI IN.
3. DVI.
4. VGA.
5. UPGRADE PORT
6. PC STEREO IN
7. PC STEREO OUT.
8. RJ-45.
9. RS-232C IN(OPTIONAL)
10. RS-232C OUT(OPTIONAL)
11. AC IN.

※ **PC cable**

To use the “Model ID” function using RS-232 cable, the pin 4 in the PC cable must be deleted.

# REMOTE FUNCTIONS

## B. REMOTE CONTROLLER(Optional)

### 1. POWER()

Turns the power ON or OFF. There will be a few seconds delay before the display appears.

### 2. SOURCE

Selects an input source.

### 3. AUTO

Auto geometry adjustment in the RGB PC source.

### 4. MUTE

Mutes the sound.

### 5. MENU

Activates and exits the On Screen Display.

### 6. EXIT

Exits the On Screen Display.

### 7. VOL( & )

Increases or decreases the level of audio volume.

### 8. UP/DOWN

Moves upwards or downwards in the OSD menu.

### 9. ENTER

Enters an OSD submenu or accepts your selection.



# CONTROLS AND FUNCTIONS

## C. RIGHT SIDE BUTTON CONTROL



### 1 & 2. VOL(+) & VOL(-)

Adjust the volume and menu settings.

### 3 & 4. ▲ & ▼

These buttons allow user to enter the sub-menu of the activated function. The up(▲) button is HOLD function and Auto switching functions.

### 5. SOURCE/SELECT

Selects an input source.

Enters a submenu or accepts your selection in the OSD menu.

### 6. MENU/EXIT

Activates and exits the On Screen Display.

This button can also be used to move previous menu or status.

### 7. POWER ON/OFF(⏻/⏻)

Turns the power ON or OFF. There will be a few seconds delay before the display appears.

### 8. POWER LED

The power LED lights with green when the power is turned ON.

The power is turned off by pressing the power button again, and the power LED goes Red.

### 9. IR Sensor

Remote controller sensor.

- 1 →
- 2 →
- 3 →
- 4 →
- 5 →
- 6 →
- 7 →
- 8 →
- 9 →



# CONTROLS AND FUNCTIONS

## On-screen Display Menus

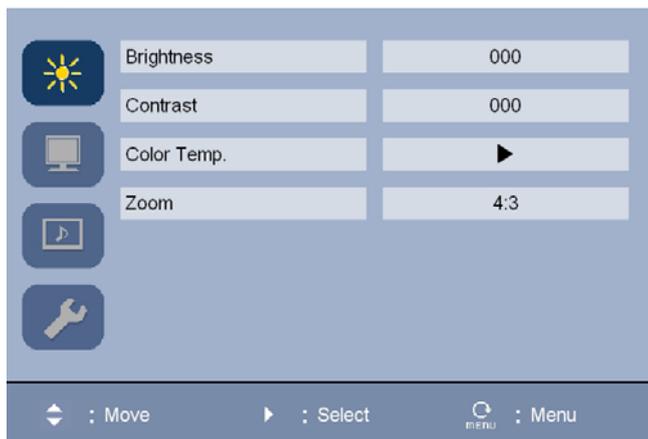
There are four (4) on-screen menus that allow you to your settings. Press the Menu button to access the OSD menu.

Icon	Menu	Function
	Image	Adjusts the Brightness, Contrast, Color Temperature, Zoom, and Information Bar settings
	Display	Adjusts the Auto adjust, Phase, Clock, Display position and Auto color settings. (PC mode.)
	Misc	Adjusts the Volume ,Mute ,input, osd setting and language Settings.
	System	Resets the factory default settings and adjusts the Image Rotation, Key lock, Model ID, Control Mode settings.

### A. Image Menu

To access the Image menu, press the Menu button on the front panel of the monitor, then press the Up and Down arrow buttons to select the Image icon. Press the Left arrow button to enter the menu, and then press the Up and Down arrow buttons to select a submenu. When finished, press the Menu button to save any changes, then press the Menu button again to exit the OSD.

#### Image



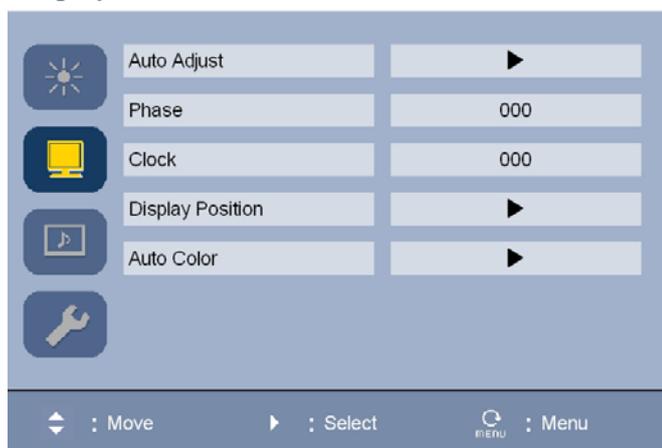
Submenu	Definition
Brightness	Adjusts the brightness level for video performance (range 0-100).
Contrast	Adjusts the intensity of the image (range 0-100).
Color Temp	Adjusts the color of the picture Choices are Warm, Normal, Cool, and User (Red , Green, and Blue).
Zoom	Sets the aspect ration for the monitor. Choices are <b>16:9</b> and <b>4:3</b> .

# CONTROLS AND FUNCTIONS

## B. Display Menu

To access the Display menu, press the Menu button on the front panel of the monitor, then press the Up and Down arrow buttons to select the Display icon. Press the Left arrow button to enter the menu, and then press the Up and Down arrow buttons to select a submenu. When finished, press the Menu button to save any changes, then press the Menu button again to exit the OSD.

### Display



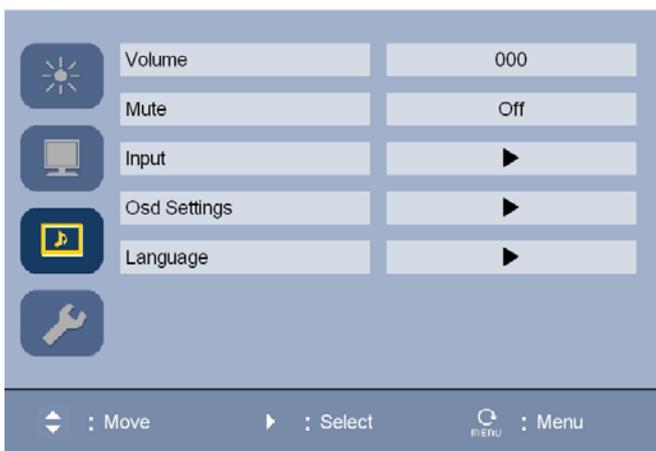
Submenu	Definition
Auto Adjust	Automatic adjustment of the screen geometry.
Phase	Adjusts the number of horizontal picture elements (range 0-100).
Clock	Adjusts the vertical noise of screen image (range 0-100).
Display Position	Moves the horizontal and vertical position of the picture.
Auto Color	Adjusts the automatic color balance.

# CONTROLS AND FUNCTIONS

## C. Sound Menu

To access the Sound menu, press the Menu button on the control panel of the monitor, then press the UP and Down arrow buttons to select the Sound icon. Press the Left arrow button to enter the menu, and then press the Up and Down arrow buttons to select a submenu. When finished, press the Menu button to save any changes, then press the Menu button again to exit the OSD.

### MISC.

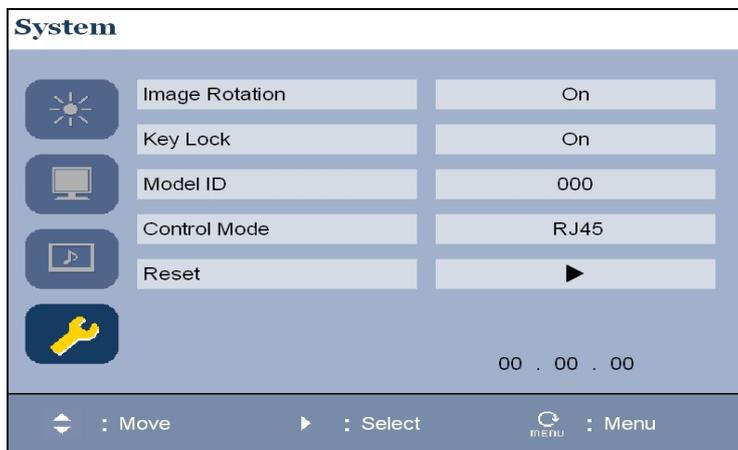


Submenu	Definition
Volume	Controls the built-in speaker volume (range 0-100).
Mute	Enables/disables audio. Choices are: <b>On and Off.</b>
Input	Selects the video input source. Choices are <b>VGA,HDMI</b> , and <b>DVI</b>
Osd Settings	Adjusts the number of horizontal picture elements. Choices are <b>Timer</b> (3sec, 6sec, 12sec), <b>Rotation</b> (0°, 90°, 180°, 270°), <b>Position</b> and <b>Transparancy</b> (range 0-100).
Language	Adjusts the language of the OSD. <b>Choices are: English, French, Spanish, Dutch, German, Italian, Portuguese, Polish, Simplified Chinese and Russian.</b>

# CONTROLS AND FUNCTIONS

## D. System Menu

To access the Sound menu, press the Menu button on the control panel of the monitor, then press the UP and Down arrow buttons to select the Sound icon. Press the Left arrow button to enter the menu, and then press the Up and Down arrow buttons to select a submenu. When finished, press the Menu button to save any changes, then press the Menu button again to exit the OSD.

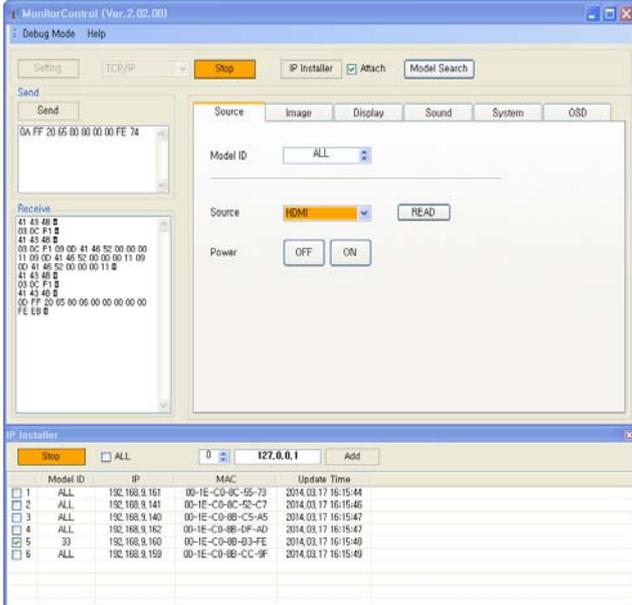


Submenu	Definition
Image Rotation	Activates the image Rotation function. The function slightly moves the displayed image to prevent image persistence
Key Lock	Enables or disables the Key Lock function.
Model ID	See below.( 0 ~ 100, ALL)
Control Mode	Select RJ45
Reset	Restores default settings.

# CONTROLS AND FUNCTIONS

## E. Monitor Control

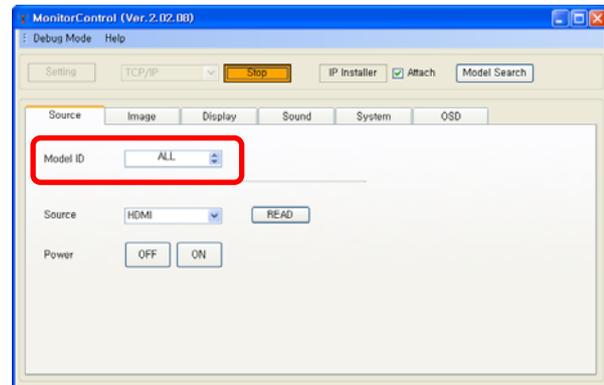
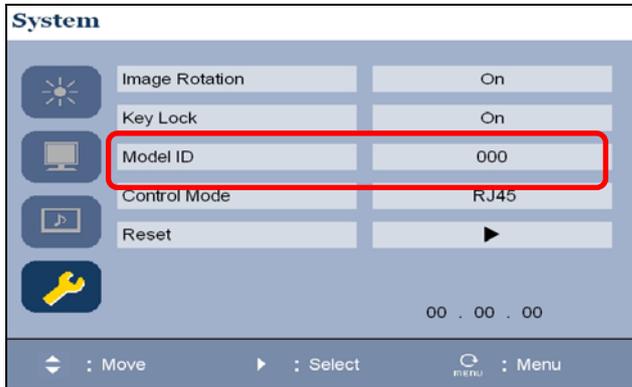
### 1) TCP/IP MODE



- Please select "TCP/IP"
- Click the "IP Installer"
- Click the "Update" in IP Installer window
- Find Monitor(s) and if you click the "Model Search" button, it shows Model ID in the list
- If you click the "Start" button, you can reach the CMS menu .
- Please tick the control Model list(s)
- If you click the "READ" button, it will take monitor Information checked in IP Installer window.
- And then, you can select the "Model ID" you checked in IP Installer window.
- Now you can control each button in each Tab in order to control the monitor(s)

- If you select "ALL" in the model ID tab, you can control Monitor(s) without Monitor's ID number.

e.g.) In this case, you can control the "Model ID No. 0" monitor. Default is "ALL"



※ For the detail explanation, refer to the enclosed "Monitor Control" CD.

# EXTENSIONAL IR RECEIVER FOR REMOTE CONTROLLER

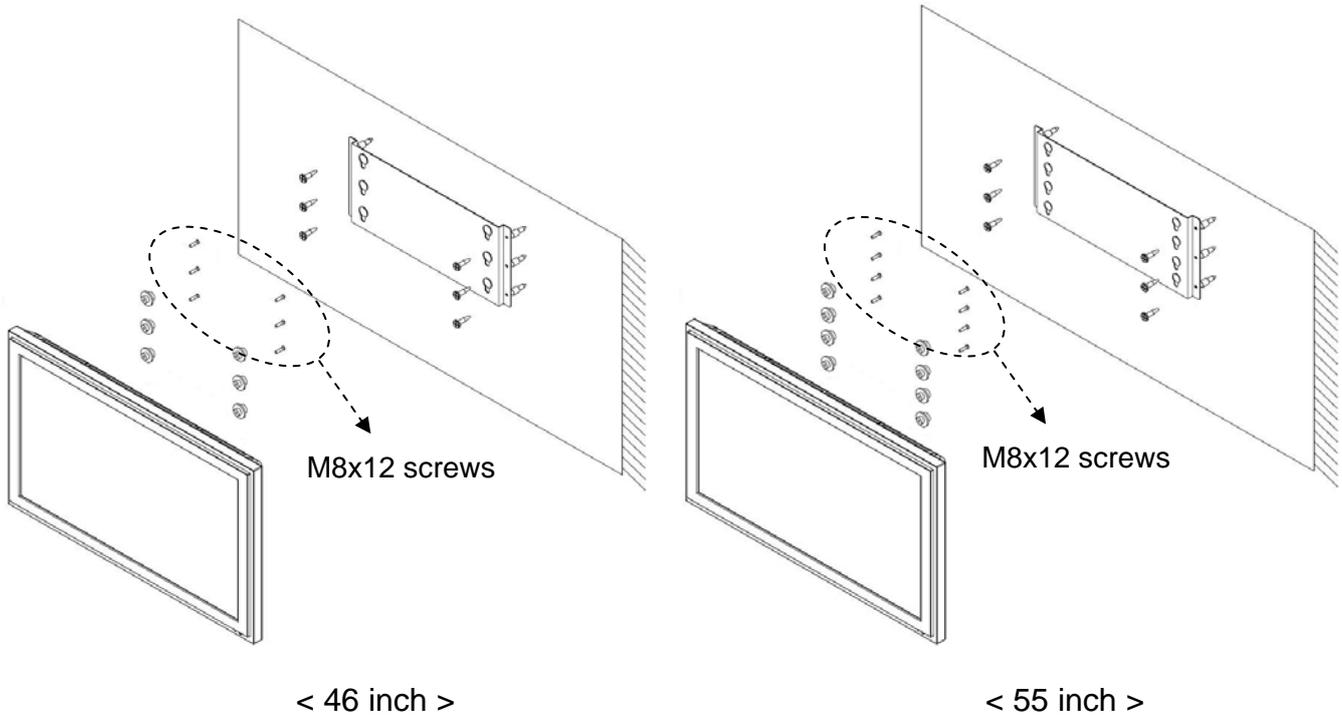
- You can connect extensional IR receiver to the place you want using the stereo cable.
- You can attach extensional IR receiver magnetic-designed to the monitor.



# MOUNTING GUIDE

## Wall mounting (Optional)

The LCD monitors are suitable for VESA standard wall mount (not included in the delivery).



1. 46-inch: VESA 600mm x 100mm x 100mm x 100mm.
2. 55-inch: VESA 600mm x 200mm x 200mm.

### ※ Attention!

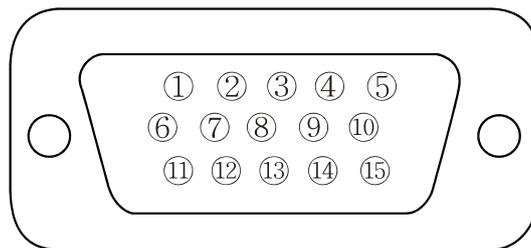
- 46inch :  
You must use eight M8x12 screws to assemble this monitor and the wall mount bracket.
- 55inch :  
You must use six M8x12 screws to assemble this monitor and the wall mount bracket.

# D-SUB CONNECTOR PIN ASSIGNMENTS

## ► PIN ASSIGNMENTS

Pin 1	RED VIDEO	9	
2	GREEN VIDEO	10	SIGNAL CABLE DETECT
3	BLUE VIDEO	11	GROUND
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



## ► ACCESSORIES

1. Power cord In. (Out cable is Option)
2. User's manual.
3. RS-232 cable (9pin male to female: direct connection).- Option
4. Monitor Control Software CD.
5. Extensional Remote Controller Receiver cable; Stereo cable.
6. Remote controller & Batteries.
7. Wall mount bracket (Optional).

### ※ PC cable

To use the "Model ID" function using RS-232 cable, the pin 4 in the PC cable must be deleted.

# 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

46"	55"
240W	330W

## LED INDICATOR

The power management feature of the monitor is comprised of four stages: On(Green), Standby, Suspend, Active off(Red on/off 1 sec) and Unsupported mode(Green).

MODE	LED COLOR	MONITOR OPERATION
ON	GREEN	Normal Operation
POWER OFF	RED	Not Operation

# SPECIFICATIONS

		46" WUXGA	55" WUXGA
LCD- Type	TYPE	46" Diagonal AM-TFT (Active-Matrix)	55" Diagonal AM-TFT (Active-Matrix)
	PIXEL PITCH(mm)	0.53025(H) x 0.53025(V)	0.63(H) x 0.63(V)
	BRIGHTNESS	500cd/m <sup>2</sup> (Typical)	
	CONTRAST RATIO	3500:1 (Typical)	5000:1(Typical)
	VIEWING ANGLE	178°/178°(H/V)	
	RESPONSE TIME	8msec (G-to-G)	
RESOLUTION (H x V)		1920X1080 @60Hz	
FREQUENCY		HORIZONTAL: 31~80KHz / VERTICAL: 56~75Hz	
INPUT SIGNAL		DISPLAY PORT(OPTIONAL)	
		HDMI	
		DVI	
		VGA	
		UPGRADE PORT	
		PC STEREO IN/OUT	
		RJ-45	
		RS-232C IN/OUT(OPTIONAL)	
		AC IN	
ACTIVE DISPLAY AREA (H x V)		1018.08mm X 572.67mm	1209.6mm X 684.0mm
PACKING DIMENSIONS (W x H x D)		1340mm X 920mm X 430mm (52.76" X 36.22" X 16.93")	1340mm X 920mm X 430mm (52.76" X 36.22" X 16.93")
WEIGHT	Net Weight	33 kg (73 lbs)	45kg (99 lbs)
	Gross Weight	43kg (95 lbs)	60.0kg (133 lbs)
ELECTRICAL RATINGS		100-240V~, 50/60Hz (Auto Switching)	

►► **NOTE:** Technical specifications are subject to change without notice.

# TROUBLESHOOTING GUIDE

TROUBLE	TROUBLESHOOTING TIP
No image on display screen	<ol style="list-style-type: none"> <li>1. Check that power cord of the Monitor have been connected securely into wall outlet or grounded extension cable or strip.</li> <li>2. Power switch should be in the ON position and LED is lit.</li> <li>3. Check that the Brightness and/or the Contrast adjustments of the Display have not been turned down to minimum levels.</li> </ol>
“NO SIGNAL” message on screen	<ol style="list-style-type: none"> <li>1. The signal cable should be completely connected to the video card/computer.</li> <li>2. The video card should be completely seated in its slot and the computer is switched ON.</li> </ol>
Display image is not centered, too small or too large in PC mode	Push the down key in front side or Auto key in remote controller.
Vertical or Horizontal noise is present in the picture	Adjust Clock and Phase in the OSD.

## WEEE Symbols

**Correct Disposal of This Product  
(Waste Electrical & Electronic Equipment)**  
(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



