

# **USER'S MANUAL**

**15 inch XGA TFT LCD Color Monitor**

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## LIFE SUPPORT APPLICATIONS

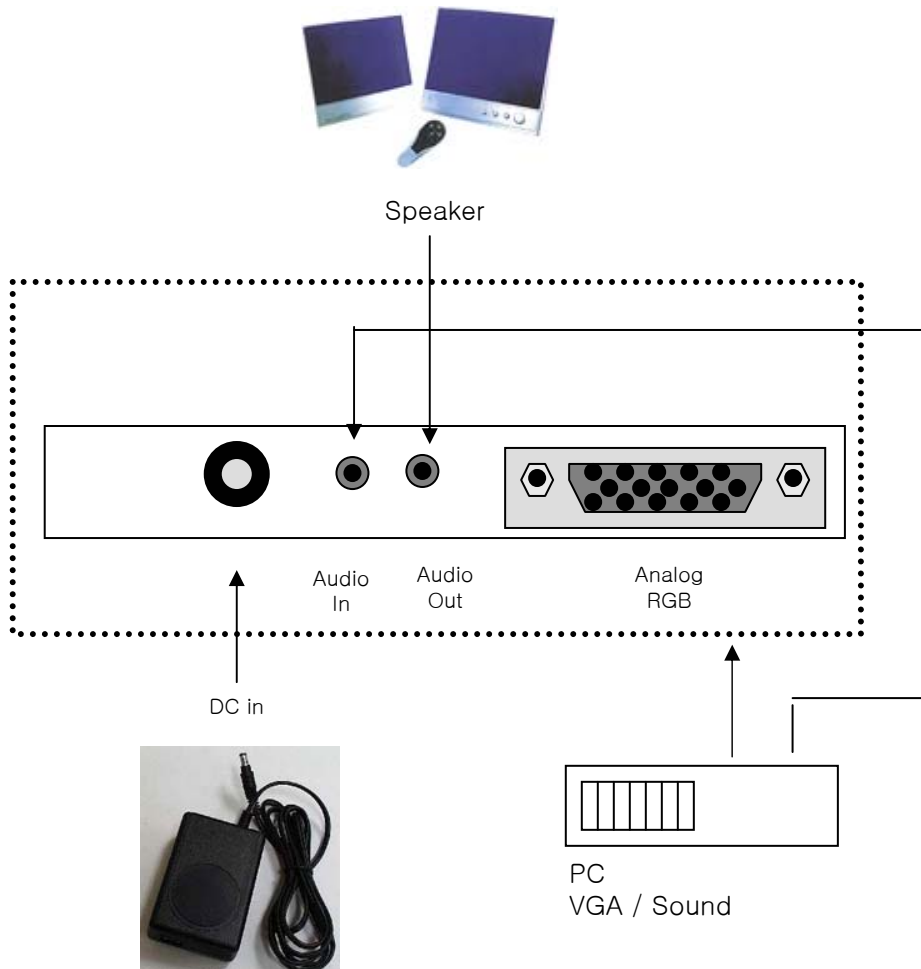
These products are not designed for use in life support appliances, devices, or systems where malfunction of these products can reasonably be expected to result in personal injury. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify for any damage resulting from such improper use or sale.

The information presented in this document may form a part of quotation or contract under the agreement of both parties. Otherwise, this datasheet is subjected to be changed without notice.

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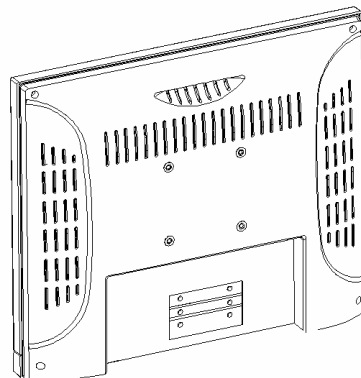
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## 0. CONNECTIONS



## 1. QUICK START

- (1) Connect the 15-pin D-sub connector to the VGA port of PC.
- (2) Connect the opposite side of VGA cable to TFT LCD monitor.
- (3) Plug in the Audio cables to the proper connector of your monitor.



- (4) Plug in the power cord to AC/DC adapter power inlet and 110V / 220V consent.
- (5) Plug in the 12V DC output to TFT LCD monitor.
- (6) Adjust the tilt of your monitor.
- (7) Turn on PC and TFT LCD monitor.
- (8) Adjust the display. (XGA, 1024x768 pixels, 8 bit color)

## 2. U.S. FCC CLASS B NOTICE

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, if it is not installed or used by the instructions, it 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, that could be determined by tuning the equipment on and off, the user is encouraged to try to connect the interference with the following option:

- Re-orient or relocate the reception of antenna.
  - Increase the separation between the equipment and the receiver
  - Connect the equipment into an outlet on a circuit different from that which the receiver is connected to.
  - Consult the dealer or an experienced Radio / Television technician for help.
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### 3. PRODUCT OVERVIEW

This 15" XGA TFT LCD Monitor, accepts standard analog RGB signal. This monitor supports XGA and lower resolutions at the frame frequency up to 75Hz. Lower resolution modes can be expanded to full screen through the expansion algorithm. The user interface includes Menu, Sel, Power, Down/Up.

This monitor contains high-end LCD controller, which have high performance and user friendly interfaces. Fancy design monitor makes your desk simple and luxury.

The LCD monitor neither emits harmful rays nor requires space. Moreover, it conforms to VESA DPMS (Display Power Management Signaling) requirement, therefore energy consumption is remarkably little. Actual power consumption of LCD monitor is less than 35 watts during the operation, in contrast CRT monitor. These features guarantee you with safe, clean, and healthy environment.

### 4. PLUG & PLAY

This monitor supports VESA DDC 1/2B requirements, therefore it is truly Plug-and-Play for all PCs. No hardware or software change needed. It finds optimum setting value automatically without any diskette installation by DDC process.

- DDC Process

Abbreviation of 'Display Data Channel'.

The format of data exchange between Monitor & VGA Card.

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### 5. USAGE NOTICE

#### Warning

Please do not open or disassemble the products, because it may cause electric shock. Please be advised all the warnings, precautions, and maintenance advice as recommended in this user's manual in order to maximize the life of your monitor.

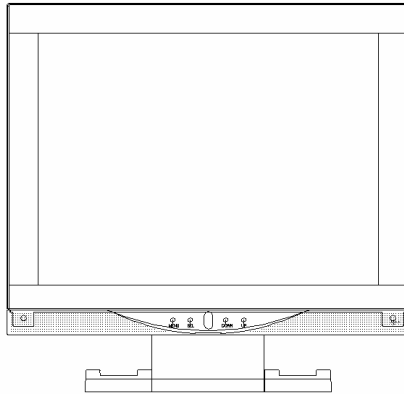
#### Do:

- Turn off the monitor before cleaning its surface.
- Periodically wipe its surface with a soft and dry cloth.
- Use the quality and safety-approved AD/DC adapter.
- Disconnect the power plug from the AC outlet when the product is not in use for long time.

#### Do not expose the monitor to:

- Extremely hot, cold, and humid environments during operation.
  - Area susceptible to dust.
  - Direct sunlight
  - Abrasive cleaners, waxes, and solvents
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## 6. PACKAGE CHECKLIST



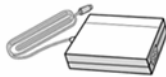
15" TFT LCD MONITOR

### \* Attention

Monitor and stand part are packed disassembled. Please be careful not to drop the stand part when you take the monitor out of protecting styrofoam.



User's Manual



AC/DC Adaptor



Power Cord

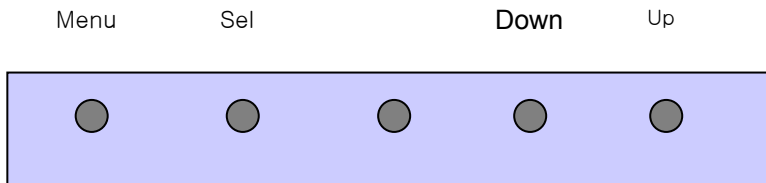


Audio Cable



VGA Cable

## 7. FRONT BUTTON



### OSD Function

Button	Function	Status	Hot key
Menu	Activate menu/Exit Menu Exit Sub-Menu/ Move to previous Menu	Brightness/Contrast/Color Etc....	
SEL	Select Menu	Select Menu	
POWER	ON/OFF	ON/OFF	
LED	Indicates operation status	Green(ON) /Red(Stand by) Orange (Flickering) : No Signal	
DOWN	Down the value	Decrease Value	Brightness Control
UP	Up the value	Increase value	Volume Control

## 8. OSD OPERATION

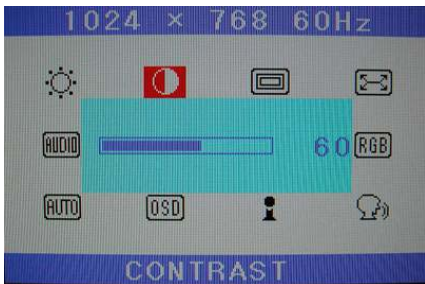
### 8.1 BRIGHTNESS CONTROL



- This control allows you to make adjustments to brightness of the display screen

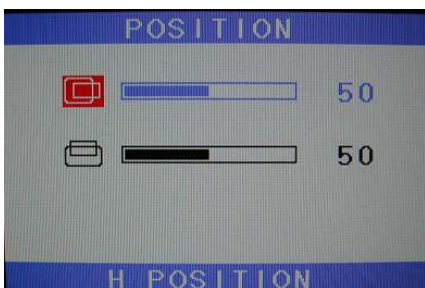
Menu > Sel > Increase/Decrease Value(down/up) > Select

### 8.2 CONTRAST CONTROL



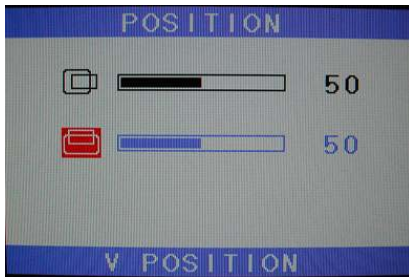
- This control allows you to make adjustments to the contrast of the display screen

### 8.3 H-POSITION



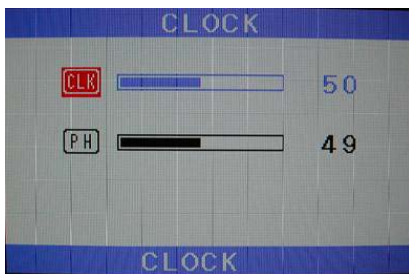
- Select this control menu, and then use down/up buttons to center the image horizontally on the screen.

### 8.4 V-POSITION



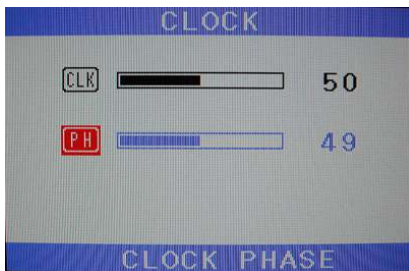
- Select this control menu, and then use the down/up buttons to center the image vertically on the screen.

### 8.5 CLOCK



- Select this control menu, and then use down/up buttons to optimize screen quality by removing noise.

### 8.6 CLOCK PHASE

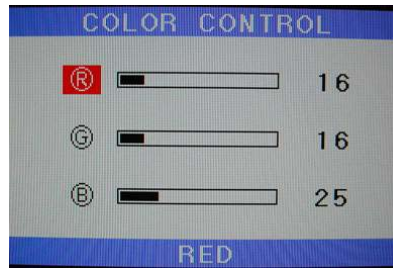


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- Select this control menu, and then use down/up buttons to adjust the screen image until it looks focused, crisp and sharp. One of the good points of LCD Monitor.

# 15 inch XGA TFT LCD Color Monitor

## 8.7 COLOR CONTROL



- Select this control menu, then scroll to the desired color temperature among 9300K, 6500K or USER for custom setting. In User Mode, adjust R,G,B color control.

## 8.8 LANGUAGE



- Select this control menu, choose from English (*ENGLISH*), German (*DEUTSCH*), Spanish (*ESPAÑOL*), Italian (*ITALIANO*), French (*FRANÇAIS*).

## 8.9 INFORMATION



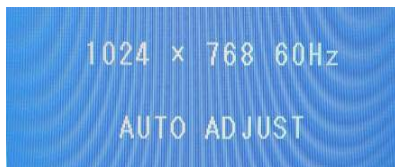
- Select this menu allows you to confirm information of the display.

### 8.10 OSD



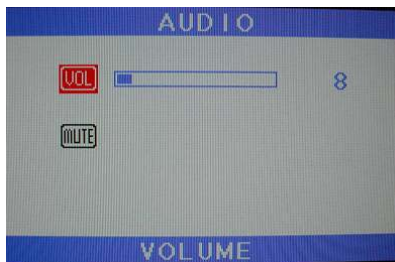
- Select this control menu, and then use the button to select the duration time for the OSD menu. Use the down/up buttons to select the time, to center the OSD image horizontally & vertically on the screen.

### 8.11 AUTO ADJUST



- This control will automatically make adjustments to the horizontal and vertical size, horizontal and vertical position, phase and color.

### 8.12 AUDIO



- Select this control menu, and then use down/up buttons to increase or decrease audio sound level or mute(on/off). This button functions also as "Volume Hot Key".

## 9. Troubleshooting

### Warning

Please do not open the monitor, because it may cause electric shock to the customer. Also, the warranty program may not support the damages, which user causes. When problem persists in spite of trying the following troubleshooting advice, please contact dealer or the repair center listed.

**Any changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.**

### Trouble and countermeasure

#### LED doesn't lit / No image

Check if the display is in power saving mode.  
Check if the display is switched on or the power cable is properly connected.

#### Image is unstable (Flicker, Interference, Noise, etc.)

Check if signal cable is secured  
Check if frame (vertical) frequency of video signal is lower than 75Hz because this monitor can not run over 75Hz. In this case, please change the setting of 'Display Control Panel' of Windows to 60Hz, that displays the best performance.

#### Dull image

Adjust the Frequency or Phase.  
Adjust the frame (vertical) frequency to 60Hz.  
Remove any video signal distributor.

#### Dark or saturated image

Adjust the Brightness or Contrast.

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## 10. Specifications

<b>Model</b>	15 inch XGA TFT LCD Color Monitor
<b>Display</b>	
Type	15" Color Active Matrix TFT LCD
Color	16.7Million (8 bit/color)
Pitch	0.3 x 0.3 mm
Screen size	307.2(H) x 230.4(V) mm
Back light	2 CCFLs
Resolution (max.)	1024 x 768(XGA) at 60 to 75Hz (Optimum 60Hz)
Contrast ratio	250:1
Brightness	400 cd/m <sup>2</sup>
<b>Video</b>	
Sync frequency	Vertical: 56 ~ 75Hz (Optimum 60Hz) Horizontal: 31.5 ~ 80KHz
Input signal	Analog RGB 0.714 V <sub>P-P</sub> , 15 Pin D-sub type
Viewing angle	Up/Down: 60° / 60° Right/Left: 70° / 70°
<b>Audio</b>	
Speaker	1W x 2
<b>Compatibility</b>	
Plug & Play	VESA DDC 1/2B
Compatibility	VESA / IBM / MAC
Power Management	VESA Standard, DPMS
<b>Operating Conditions</b>	
Power Consumption	Operating: 35 watt max. Stand-by: 3.5 watt max.
Temperature	Operating: 0 °C ~ 40 °C Storage: -20 °C ~ 60 °C
Humidity	Operating: 10% ~ 85% R.H. Non-Operating: 90% R.H. Max.
<b>User control</b>	
OSD	Menu / Sel / Power / Down /Up
<b>Mechanical</b>	
Size	Packed : 412 (W) x 141 (D) x 440 (H) mm
Weight	Packed : 3.5 kg

## 11. VIDEO MODE SUPPORT

The modes are detected when presented to the input and previous alignments for setup are automatically recalled. A true multi-sync monitor emulation is implemented.

The factory preset supported modes include:

Mode* <sup>1</sup>	Resolution	Refresh rate	H-freq.	Pixel freq.	Remarks* <sup>1</sup>
VGA	640 x 350	70Hz	31.47KHz	25.175MHz	VESA Standard
VGA	720 x 400	59.940HZ	31.469KHZ	25.175MHZ	IBM VGA 3H
VGA	640 x 480	60Hz	31.5KHz	25.175MHz	Industry Standard
VGA	640 x 480	72Hz	37.9KHz	31.500MHz	VESA Standard
VGA	640 x 480	75HZ	37.5KHZ	31.500MHZ	VESA Standard
SVGA	800 x 600	60Hz	37.9KHz	40.000MHz	VESA Guidelines
SVGA	800 x 600	72Hz	48.1KHz	50.000MHz	VESA Standard
SVGA	800 x 600	75HZ	46.9KHZ	49.500MHZ	VESA Standard
XGA	1024 x 768	60Hz	48.4KHz	65.000MHz	VESA Guidelines
XGA	1024 x 768	70Hz	56.5KHz	75.000MHz	VESA Standard
XGA	1024 x 768	75HZ	60KHZ	78.750MHZ	VESA Standard

### Notes:

1. All mentioned modes are non-interlaced. The maximum and minimum frame rates are determined by the TFTLCD.
2. Factory preset modes are overwritten by additional user alignments for automatic recall. At all times it remains possible to recall the initial factory presets.